



**REVIEWED** By Kristen Lynch at 11:47 am, Oct 21, 2016

October 17, 2016

Reference No. 088210-19

Ms. Kristen Lynch New Mexico Oil Conservation Division Energy, Minerals and Natural Resources Department 1625 N. French Dr. Hobbs, NM 88240

Ms. Shelly Tucker United States Bureau of Land Management 620 E. Greene St Carlsbad, NM 88220

Dear Ms. Lynch and Ms. Tucker:

Re: Closure Request 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

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG) is requesting that no further action status be granted for the Short Fuse Federal No. 1 (hereafter referred to as the "Site").

In an Assessment Report dated July 18, 2016 (attached) GHD recommended the following scope items be completed following delineation of the soil impacts in order to achieve no further action;

- Placement of a 20 mil polyethylene liner in the bottom of the excavation at a depth of 4 ft bgs at the location indicated on Figure 2.
- Backfilling of the excavation with clean fill material and wheel compacting to grade, once approval of delineation has been confirmed.
- Fertilizing and reseeding of the disturbed area with a BLM approved seed mix.

The work scope was approved by Mr. Jamie Keyes with the New Mexico Oil Conservation Division on August 17, 2016. The United States Bureau of Land Management approved the report on August 26, 2016. As of the date of this letter, the above scope items have been completed and are documented in the attached completion photos and final C-141 for the Site; therefore, No Further Action is being requested.

Your timely response to this requested is greatly appreciated. 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

ataron

Christine Mathews Project Scientist/Project Coordinator

CM/mc/03

Senarce

Bernard Bockisch Senior Project Manager

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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			Rel	ease Notifi	catio	n and Co	orrective A	ction					
						<b>OPERA</b> '	ГOR	🔲 Initia	l Report 🛛 🛛 Final Repor				
Name of C	Company EC	OG Resource	es, Inc.			Contact Zane Kurtz							
		oions Drive,		TX 79706		Telephone No. 432-425-2023							
Facility Na	ame Sho	ort Fuse Fed	#1			Facility Typ	e Oil and Gas	Well and Tank Ba	attery				
Surface Ov	wner BLM	[		Mineral (	Owner	EOG R	esources	API No	. 30-025-29897				
				LOCA	ATIO	N OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the	-	NSouth Line	Feet from the	East/West Line	County				
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Source of Re	elease Steel	elbow on inte	t to Heater	rialied		8/16/2015	four of Occurrenc	8/16/2015					
Was Immed	liate Notice (	Given?				If YES, To	Whom?	0,10,2010					
			Yes 🗵	🛾 No 📋 Not R	equired								
By Whom?						Date and H	lour						
	rcourse Read			_		If YES, Vo	lume Impacting t	he Watercourse.					
			Yes 🗵	No		N/A							
Elbow on p rew to remo bout 50 fee	oiping failed a ove impacted	1 soil. Once t oved about 10	t about 5 l hey started	obls of produced v I removing impac	ted soil	, they found in	npacted soil from	historical release th	stop release. Called clean up nat reached into the pasture I with clean backfill from pit at				
Describe Ard nitial deline activities we lepth of four	ea Affected eation efforts ere complete r feet below	and Cleanup A were comple d by GHD to a ground surfac	ted by CH achieve ve ce. Impacto	I2M Hill achievin ertical delineation	of soil ed of a	impacts. Impa t an approved	cted soil in the are landfill. A 20 mil	ea of the release wa	avation and soil boring s excavated to an approximate was placed in the bottom of the				
regulations a public health should their or the enviro	all operators h or the envir operations h onment. In a	are required t conment. The ave failed to a	o report and acceptance adequately OCD accept	nd/or file certain r ce of a C-141 repo v investigate and r	elease r ort by th emedia	notifications and ne NMOCD m te contaminati	nd perform correc arked as "Final Ro on that pose a thre	tive actions for rele eport" does not relie eat to ground water,	uant to NMOCD rules and ases which may endanger eve the operator of liability surface water, human health mpliance with any other				
		, j					OIL CONS	SERVATION	DIVISION				
Signature:	5	er K	5						D I				
	$\mathcal{O}$		-*			Approved by	Environmental Sp	pecialist:	m dynch				
Printed Nam	ne: Zane Kur	tz, EOG Reso	ources			-							
Fitle: Sr. E	Invironmenta	l Rep.				Approval Dat	e: 10/21/201	6 Expiration D	Date: N/A				
E-mail Addr	ress: zane ku	urtz@eogreso	urces.com			Conditions of	Approval:						
						N/.			Attached				
Date: 10-	-10-2016	Phone: 432-	425-2023			- 17			1				

\* Attach Additional Sheets If Necessary



Photo 1 - Site location



Photo 2 - Liner placement



# **Site Photographs**

GHD | Short Fuse Fed No. 1 Closure Request | 088210 (19) | Page 1



Photo 3 - Backfilled excavation, wheel compacted, re-seeded



Photo 4 - Backfilled excavation, wheel compacted, re-seeded



# **Site Photographs**

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Reference No. 088210-19



July 18, 2016

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 10 mg/kg								

benzene, 50 mg/kg for total BTEX, 1,000 mg/kg for TPH<sup>1</sup>, and 250 mg/kg for chlorides.

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).

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

• 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

Semarc Bal!

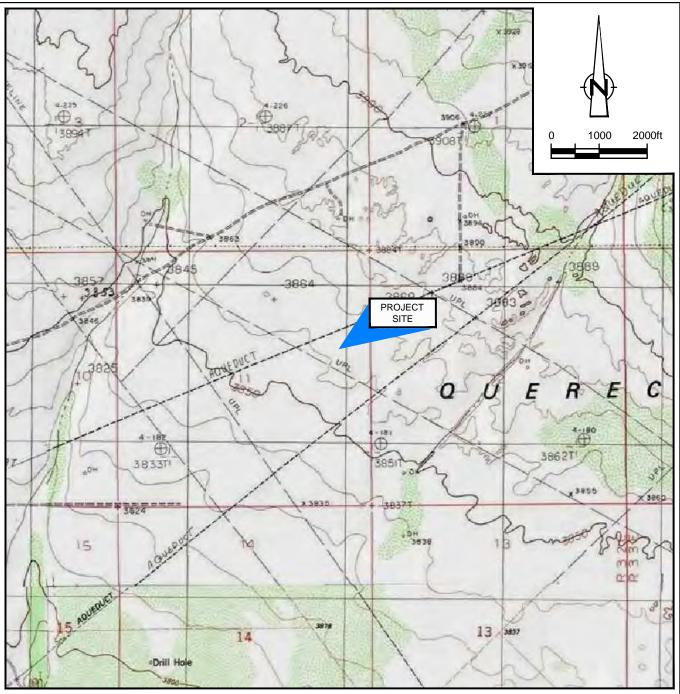
Bernard Bockisch Senior Project Manager

atardo

Christine Mathews, Staff Scientist

BB/mc/02

# Figures



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

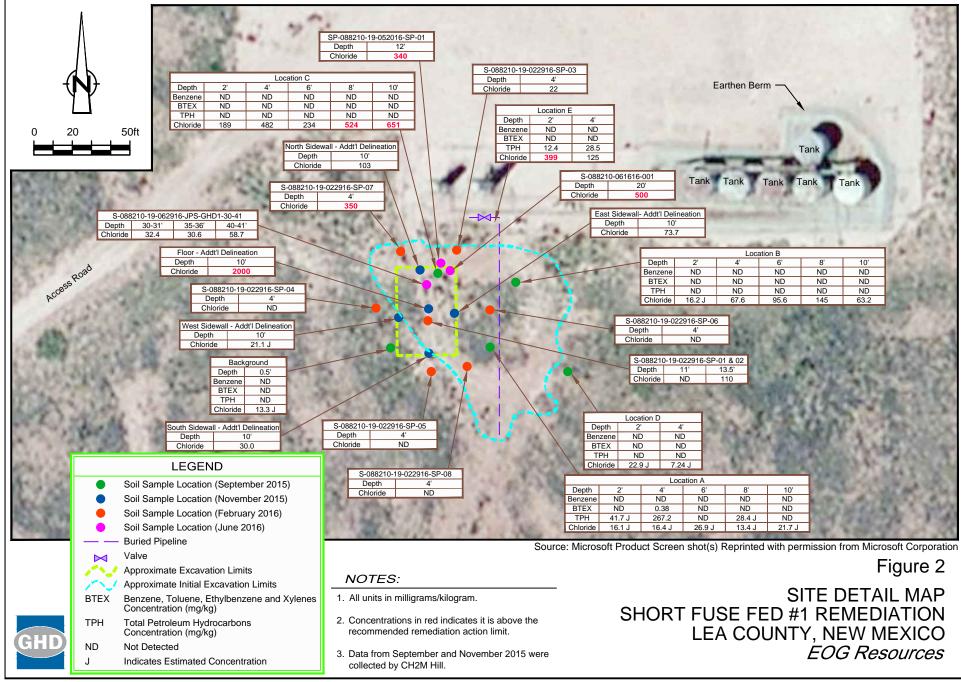
ŠŒÆŠUÞŐKÁŒÌÎ HÎ ¾ÞUÜVPĒÆ─ĒËHEĨ ¾́ ÒÙV COORDINATE: NAD83 DATUM, U.S. FOOT STATE PLANE ZONE - NEW MEXICO EAST

# Figure 1

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



088210-19(000)GN-DL001 APR 11/2016



088210-19(000)GN-DL001 JUL 12, 2016

# **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 A		s	10		Total BTEX: 50	1		1 1	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		<0.00626		< 0.0136	<0.0102	<2.72	<6.13	<8.85	26.9 J
FUSE-A-8'-09212015	8	9/21/2015			< 0.0133	<0.0102	<2.66	28.4 J	28.4 J	13.4 J
FUSE-A-10'-09212015	10	9/21/2015	<0.00608				<2.65	<5.96		
Location B	10	9/21/2015	<0.00000	<0.00730	<0.0132	<0.00998	<2.00	<0.90	<8.61	21.7 J
							<b>a</b> (a			
FUSE-B-2'-09212015	2	9/21/2015			<0.0120	< 0.00906	<2.40	<5.41	<7.81	16.2 J
FUSE-B-4'-09212015	4		<0.00578		<0.0126	<0.00948	<2.52	<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	9/21/2015	<0.00641	<0.00775	<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	<0.00555	<0.00671	<0.0121	<0.00910	<2.41	<5.43	<7.84	189
FUSE-C-4'-09212015	4	9/21/2015	<0.00648	<0.00785	<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			< 0.0132	< 0.00995	<2.64	<5.94	<8.58	651
Location D	10	0/21/2010	\$0.00001	\$0.007.00	40.0102	10.00000	\$2.0 T	30.01	10.00	001
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
	4									
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		<0.0122	<0.00917	<2.44	12.4 J	12.4 J	399
FUSE-E-4'-09212015	4	9/21/2015	<0.00559		<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-01	13.5	2/29/2016	NA	NA	NA	NA	NA	NA	NA	<1.5 110
S-088210-022916-SP-02	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	<7.5
S-088210-022916-SP-05	4	2/29/2016	NA	NA	NA	NA	NA	NA	NA	<7.5
S-088210-022916-SP-06	4	2/29/2016	NA	NA	NA	NA	NA	NA	NA	<7.5
S-088210-022916-SP-07	4	2/29/2016	NA	NA	NA	NA	NA	NA	NA	350
S-088210-022916-SP-08	4	2/29/2016	NA	NA	NA	NA	NA	NA	NA	<7.5
S-088210-19-052016-SP-01	12	5/20/2016	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	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

# Appendices

Appendix A Analytical Data



Texas 79424 Lubbock, 800-378-1296 806 • 794 • 1296 FAX 806 • 794 • 1298 6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915 • 585 • 4944 5002 Basin Street, Suite A1 Texas 79703 432-689-6301 Midland FAX 432 . 689 . 6313 (BioAquatic) 2501 Mayes Rd., Suite 100 Texas 75006 972-242 -7750 Carroliton, E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

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

Report Date: October 6, 2015

Work Order: 15092227

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, Inc.

			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.

Blain Lefturch

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

# **Report Contents**

Case Narrative	5
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Sample 404963 (FUSE-B-2'-09212015)	
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Sample 404966 (FUSE-B-8'-09212015)	11
Sample 404967 (FUSE-B-10'-09212015)	12
Sample 404968 (FUSE-C-2'-09212015)	14
Sample 404969 (FUSE-C-4'-09212015)	16
Sample 404970 (FUSE-C-6'-09212015)	17
Sample 404971 (FUSE-C-8'-09212015)	19
Sample 404972 (FUSE-C-10'-09212015)	21
Sample 404973 (FUSE-D-2'-09212015)	22
Sample 404974 (FUSE-D-4'-09212015)	24
Sample 404975 (FUSE-E-2'-09212015)	26
Sample 404976 (FUSE-E-4'-09212015)	27
Sample 404977 (FUSE-BG-0.5'-09212015)	29
Method Blanks	<b>32</b>
QC Batch 125089 - Method Blank (1) $\ldots$	
QC Batch 125111 - Method Blank (1) $\ldots$	
QC Batch 125132 - Method Blank (1) $\ldots$	32
QC Batch 125365 - Method Blank (1) $\ldots$	
QC Batch 125366 - Method Blank (1) $\ldots$	33
	0.4
Duplicates	<b>34</b>
QC Batch 125095 - Duplicate (1)	34
	34
QC Batch 125095 - Duplicate (1)	$\frac{34}{34}$
QC Batch 125095 - Duplicate (1)	34 34 <b>35</b>
QC Batch 125095 - Duplicate (1)	34 34 <b>35</b> 35
QC Batch 125095 - Duplicate (1)	34 34 <b>35</b> 35 35
QC Batch 125095 - Duplicate (1)	34 34 <b>35</b> 35 35 36
QC Batch 125095 - Duplicate (1)	34 34 35 35 35 36 36
QC Batch 125095 - Duplicate (1)	34 34 35 35 35 36 36
QC Batch 125095 - Duplicate (1)	34 34 35 35 35 36 36
QC Batch 125095 - Duplicate (1)	34 34 35 35 35 36 36 36
QC Batch 125095 - Duplicate (1)	34 34 35 35 35 36 36 36 36 36 36 38
QC Batch 125095 - Duplicate (1)	34 34 35 35 35 36 36 36 36 36 38 38
QC Batch 125095 - Duplicate (1)	34 34 35 35 35 36 36 36 36 38 38 38 38
QC Batch 125095 - Duplicate (1)	34 34 35 35 36 36 36 36 38 38 38 38 38
QC Batch 125095 - Duplicate (1)	34 34 35 35 35 36 36 36 36 36 38 38 38 38 39 39
QC Batch 125095 - Duplicate (1)	34 34 35 35 36 36 36 36 36 38 38 38 38 39 39
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QC Batch 125095 - Duplicate (1)	34 34 35 35 35 36 36 36 36 38 38 38 38 39 39 39 39 41
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QC Batch 125095 - Duplicate (1)	34 34 35 35 35 36 36 36 38 38 38 38 39 39 39 39 39 41 41 41

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QC Batch 125366 - CCV $(2)$	 	 	 	 	 •••	 	• • •	• • •	•	• •	 43
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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.

# Analytical Report

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

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

Laboratory: Analysis: QC Batch: Prep Batch:	Midla BTE 12511 10581	X 11	[		Analytical Method:S 8021BDate Analyzed:2015-09-24Sample Preparation:2015-09-24						Prep Meth Analyzed I Prepared I	By: AK
				SDL	l	MQL	Method					
				Based	Е	ased	Blank				MQL	MDL
Parameter		$\mathbf{F}$	$\mathbf{C}$	Result	R	$\operatorname{esult}$	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
Benzene		U	5	< 0.00553	<0.	0207	< 0.00553	mg/Kg	1	0.00553	0.02	0.00533
Toluene		U	5	< 0.00669	< 0.	0207	< 0.00669	$\mathrm{mg/Kg}$	1	0.00669	0.02	0.00645
Ethylbenzene	Э	U	5	< 0.0120	< 0.	0207	< 0.0120	$\mathrm{mg/Kg}$	1	0.0120	0.02	0.0116
Xylene		U	5	< 0.00906	< 0.	0207	< 0.00906	$\mathrm{mg/Kg}$	1	0.00906	0.02	0.00874
										Spike	Percent	Recovery
Surrogate					$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (T	$\mathbf{FT}$	)				1.96	mg/Kg	1	2.00	98	70 - 130
4-Bromofluor	obenze	ene	(4-I	BFB)			2.12	mg/Kg	1	2.00	106	70 - 130

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

Laboratory: Analysis: QC Batch: Prep Batch:	Lubboc Chlorid 125365 106048			Ar Da Sa	Prep M Analyze Prepare	•				
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
Chloride	J	$^{3,4,6}$	16.2	$<\!\!25.9$	<4.86	mg/Kg	1	4.86	25	4.69

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

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Moisture Content 125095 105818		Analytical Date Anal Sample Pr		ASTM D 2216-( 2015-09-24 2015-09-23	05 Prep Method Analyzed By Prepared By:	: AM
				RI	_		
Parameter	$\mathbf{F}$		C Resul		t Units	s Dilution	$\operatorname{RL}$
Moisture			5	3.55	5 %	1	0

Report Date	: Octobe	r 6, 201	15		Work C Short	Page Number: 7 of 46 Lea Co, NM				
Sample: 40	4963 - F	USE-I	B-2'-092	12015						
Laboratory: Analysis: QC Batch: Prep Batch:	Lubboc TPH D 125089 105814			Date	lytical Met e Analyzed ple Prepar	Prep Method: Analyzed By: Prepared By:				
Parameter DRO	F U	C 1,2,3,4	SDL Based Result <5.41	MQL Based Result <51.8	Method Blank Result <5.41	Units mg/Kg	Dilution 1	SDL 5.41	MQL (Unadjusted) 50	MDL (Unadjusted) 5.22
Surrogate n-Tricosane		F	C3	Result 29.7	Units mg/Kg	Dilut 1	ion A:	Spike mount 25.0	Percent Recovery 119	Recovery Limits 48.9 - 172
QC Batch: Prep Batch:	125132 105811		SDL Based	Samp MQL Based	Analyzed: ble Prepara Method Blank	tion: 201	5-09-25 5-09-24		Analyzed Prepared MQL	By: AK MDL
Parameter GRO	F <sub>Qs,U</sub>	C 5	Result <2.40	Result <4.15	Result <2.40	Units mg/Kg	Dilution 1	SDL 2.40	(Unadjusted) 4	(Unadjusted) 2.32
Surrogate Trifluorotoluo 4-Bromofluor			B)	F C J	Result 1.81 1.80	Units mg/Kg mg/Kg	Dilution 1 1	Spike Amoun 2.00 2.00		Recovery Limits 70 - 130 70 - 130
Sample: 40	4964 - F	USE-1	B-4'-092	12015						
Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 125111 105811	1		Date A	tical Metho Analyzed: e Preparati	2015-	21B 09-24 09-24		Prep Metl Analyzed Prepared	By: AK
			SDL Based	MQL Based	Method Blank				MQL	MDL

			Based	Based	Blank				MQL	MDL	
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)	
Benzene	U	5	< 0.00578	< 0.0217	< 0.00578	mg/Kg	1	0.00578	0.02	0.00533	•
Toluene	U	5	< 0.00700	< 0.0217	< 0.00700	$\mathrm{mg/Kg}$	1	0.00700	0.02	0.00645	
Ethylbenzene	U	5	< 0.0126	< 0.0217	< 0.0126	$\mathrm{mg/Kg}$	1	0.0126	0.02	0.0116	_
									1		

continued ...

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sample 404964 continued ...

			SDL Based		MQL Based	Method 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	$\mathrm{mg/Kg}$	1	0.00948	0.02	0.00874
~				_					Spike	Percent	Recovery
Surrogate				$\mathbf{F}$	С	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene	(TFT	)				2.04	$\mathrm{mg/Kg}$	1	2.00	102	70 - 130
4-Bromofluorobe	nzene	(4-I	BFB)			2.12	mg/Kg	1	2.00	106	70 - 130

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

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride 125365 106048			Da	aalytical Me ate Analyze mple Prepa	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	$\operatorname{SDL}$	(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: Analysis: QC Batch: Prep Batch:	Moisture Content 125095		Analytical Date Anal Sample Pr	yzed:	ASTM D 2 2015-09-24 2015-09-23	216-05	Prep Method: Analyzed By: Prepared By:	ÁM
				RI				
Parameter		$\mathbf{F}$	$\mathbf{C}$	Resul	t	Units	Dilution	$\operatorname{RL}$
Moisture			5	7.8	5	%	1	0

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

Laboratory: Analysis: QC Batch: Prep Batch:	Lubboo TPH D 125089 105814	ORO		Date	lytical Metl e Analyzed: ple Prepara		Prep M Analyze Prepare	v		
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	$<\!5.66$	$<\!54.2$	$<\!\!5.66$	mg/Kg	1	5.66	50	5.22

Report Date	015			Work ( Short	Page Number: 9 of 46 Lea Co, NM						
Surrogate		F	С	Rest	ılt	Units	Dilu	tion	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		J	3	32	2.3	mg/Kg	1		25.0	129	48.9 - 172
Sample: 40 Laboratory: Analysis: QC Batch:	<b>4964 - F</b> Midland TPH G 125132	ł	-B-4'-092		Anal	lytical Meth Analyzed:		6015 D 15-09-25		Prep Metl Analyzed	
Prep Batch:	105811				Sam	ple Prepara	tion: $201$	5-09-24		Prepared 1	By: AK
Parameter	$\mathbf{F}$	С	SDL Based Result	MC Bas Resu	ed	Method Blank Result	Units	Dilution	n SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	U	5	< 2.52	<4.	34	<2.52	mg/Kg	1	2.52	4	2.32
Surrogate				F	С	Result	Units	Dilutio	Spik n Amou		Recovery Limits
Trifluorotolue 4-Bromofluor		/	FB)	J		1.88 1.79	mg/Kg mg/Kg	1	2.00 2.00	) 94	70 - 130 70 - 130

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

Laboratory:MidlaAnalysis:BTEXQC Batch:12511Prep Batch:10581	1 1			Ι	Date A	ical Metho analyzed: e Preparatio		Prep Meth Analyzed I Prepared I	By: AK		
			SDL	l	AQL	Method					
			Based	В	ased	Blank				MQL	MDL
Parameter I	F (	2	Result	R	esult	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Benzene t	J i	5	< 0.00616	<0.	0231	< 0.00616	mg/Kg	1	0.00616	0.02	0.00533
Toluene t	J i	5	< 0.00746	< 0.	0231	< 0.00746	$\mathrm{mg/Kg}$	1	0.00746	0.02	0.00645
Ethylbenzene t	J i	5	< 0.0134	< 0.	0231	< 0.0134	$\mathrm{mg/Kg}$	1	0.0134	0.02	0.0116
Xylene t	J i	5	< 0.0101	< 0.	0231	< 0.0101	$\mathrm{mg/Kg}$	1	0.0101	0.02	0.00874
									Spike	Percent	Recovery
Surrogate				$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TH	T)					2.15	mg/Kg	1	2.00	108	70 - 130
4-Bromofluorobenze	ne (4	1-E	BFB)			2.13	$\mathrm{mg/Kg}$	1	2.00	106	70 - 130

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

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A

Report Date	e: Octobe	r 6, 20	15			rder: 1509 Fuse Fed <sub>5</sub>			Page Number: 10 of 46 Lea Co, NM		
QC Batch: Prep Batch:	$125365 \\ 106048$				ate Analyze mple Prepa		Analyzed By: RL Prepared By: RL				
			SDL Based	MQL Based	Method Blank				MQL	MDL	
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)	
Chloride		$^{3,4,6}$	95.6	95.6	$<\!5.42$	mg/Kg	1	5.42	25	4.69	

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

Laboratory:	Midland							
Analysis:	Moisture Content		Analytical M	Iethod:	ASTM D 2	216-05	Prep Method:	N/A
QC Batch:	125095		Date Analyz	zed:	2015-09-24		Analyzed By:	AM
Prep Batch:	105818		Sample Prep	paration:	2015-09-23		Prepared By:	AM
				RI				
Parameter		F	$\mathbf{C}$	Resul	t	Units	Dilution	$\operatorname{RL}$
Moisture			5	13.	5	%	1	0

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

Laboratory: Analysis: QC Batch: Prep Batch:	Lubboo TPH D 125089 105814	RO		Date	lytical Metl e Analyzed: ple Prepara	201	015 D 5-09-24 5-09-23		Prep M Analyze Prepare	ed By: HJ
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	$<\!6.03$	$<\!57.8$	$<\!6.03$	$\mathrm{mg/Kg}$	1	6.03	50	5.22
Surrogate		F	С	Result	Units	Diluti		pike nount	Percent Recovery	Recovery Limits
n-Tricosane		J	3	32.7	mg/Kg	1		25.0	131	48.9 - 172

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

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GI 125132 105811			Dat	lytical Metl e Analyzed: ple Prepara		Prep Met Analyzed Prepared	v		
			SDL	MQL	Method					
			Based	Based	$\operatorname{Blank}$				MQL	MDL
Parameter	$\mathbf{F}$	С	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
GRO	U	5	$<\!\!2.68$	<4.62	$<\!\!2.68$	mg/Kg	1	2.68	4	2.32

Report Date: October 6, 2015	Work Order: 15092227 Short Fuse Fed #1						Page Number: 11 of 46 Lea Co, NM		
Surrogate	F	С	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotoluene (TFT)	J		1.96	mg/Kg	1	2.00	98	70 - 130	
4-Bromofluorobenzene (4-BFB)	J		1.79	$\mathrm{mg/Kg}$	1	2.00	90	70 - 130	

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

Laboratory: Analysis: QC Batch: Prep Batch:	Midla BTE 12511 10581	X 11	[		Ι	Date A	ical Methoo nalyzed: e Preparatio		Prep Meth Analyzed I Prepared I	By: AK		
				SDL	l	MQL	Method					
				Based	В	ased	Blank				MQL	MDL
Parameter		F	$\mathbf{C}$	Result	R	$\operatorname{esult}$	Result	Units	Dilution	$\operatorname{SDL}$	(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	$\mathrm{mg/Kg}$	1	0.00775	0.02	0.00645
Ethylbenzene	e	U	5	< 0.0139	< 0.	0240	< 0.0139	$\mathrm{mg/Kg}$	1	0.0139	0.02	0.0116
Xylene		U	5	$<\!0.0105$	< 0.	0240	$<\!0.0105$	m mg/Kg	1	0.0105	0.02	0.00874
										Spike	Percent	Recovery
Surrogate					$\mathbf{F}$	С	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)							1.95	mg/Kg	1	2.00	98	70 - 130
4-Bromofluor	obenze	ene	(4-I	BFB)			2.02	$\mathrm{mg/Kg}$	1	2.00	101	70 - 130

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

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbocl Chloride 125365 106048			Ar Da Sa	Prep M Analyze Prepare	•				
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(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/A
QC Batch:	125095	Date Analyzed:	2015-09-24	Analyzed By:	AM
Prep Batch:	105818	Sample Preparation:	2015-09-23	Prepared By:	AM

Report Date: October	· 6, 2015		ork Order: 150922 Short Fuse Fed #1	Page Number: 12 of 46 Lea Co, NM		
			$\operatorname{RL}$			
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dilution	$\operatorname{RL}$
Moisture		5	16.8	%	1	0

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

Laboratory: Analysis: QC Batch: Prep Batch:	TPH DROAnalytical Method:S 8015 D125089Date Analyzed:2015-09-24									ethod: N/A ed By: HJ ed By: HJ
			SDL	MQL	Method					
			Based	Based	$\operatorname{Blank}$				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	$<\!6.27$	$<\!60.1$	$<\!6.27$	$\mathrm{mg/Kg}$	1	6.27	50	5.22
Surrogate		F	С	Result	Units	Diluti		pike nount	Percent Recovery	Recovery Limits
n-Tricosane		J	3	33.8	mg/Kg	1	د م	25.0	135	48.9 - 172

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

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH G 125132 105811				Date	lytical Metl e Analyzed: ple Prepara		Prep Meth Analyzed 1 Prepared 1	By: AK		
			SDL Based	M Bas	$_{\rm QL}$	Method Blank				MQL	MDL
Parameter	$\mathbf{F}$	С	Result	Res		Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
GRO	U	5	<2.79	<4.	81	$<\!2.79$	mg/Kg	1	2.79	4	2.32
Surrogate				F	С	Result	Units	Dilution	Spike Amou		Recovery Limits
Trifluorotolue		J		1.76	mg/Kg	1	2.00	88	70 - 130		
4-Bromofluor	FB)	J		1.70	$\mathrm{mg/Kg}$	1	2.00	85	70 - 130		

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

Report Date: October 6, 2015							∙der: 15092 Fuse Fed #		Page Number: 13 of 46 Lea Co, NM		
			SDL	l	MQL	Method					
			Based	В	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	R	$\operatorname{esult}$	Result	Units	Dilution	$\operatorname{SDL}$	(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	$\mathrm{mg/Kg}$	1	0.00723	0.02	0.00645
Ethylbenzene	U	5	< 0.0130	< 0.	0224	< 0.0130	$\mathrm{mg/Kg}$	1	0.0130	0.02	0.0116
Xylene	U	5	< 0.00980	<0.	0224	< 0.00980	$\mathrm{mg/Kg}$	1	0.00980	0.02	0.00874
									Spike	Percent	Recovery
Surrogate				$\mathbf{F}$	С	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)						2.10	mg/Kg	1	2.00	105	70 - 130
4-Bromofluorobenzene (4-BFB)						2.02	$\mathrm{mg/Kg}$	1	2.00	101	70 - 130

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

Laboratory: Analysis: QC Batch: Prep Batch:	Lubboc Chlorid 125365 106048			Dε	nalytical Me ate Analyze mple Prepa	d: É	E 300.0 2015-10-05		Prep M Analyze Prepare	v
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(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: Analysis: QC Batch: Prep Batch:	Midland Moisture Content 125095 105818		Analytical Date Anal Sample Pr		ASTM D 2216- 2015-09-24 2015-09-23	05 Prep Metho Analyzed By Prepared By	y: AM
				RI	-		
Parameter		$\mathbf{F}$	$\mathbf{C}$	Resul	t Unit	is Dilution	$\operatorname{RL}$
Moisture			5	10.	8 %	1	0

# Sample: 404967 - FUSE-B-10'-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
				· · · · · · · · · · · · · · · · · · ·	

 $continued \ldots$ 

Octobe	er 6, 201	5		Work Order: 15092227 Short Fuse Fed #1					Page Number: 14 of 46 Lea Co, NM		
contin	$nued \ldots$										
F	С	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilut	tion S	$\mathrm{DL}$	MQL (Unadjusted)	MDL (Unadjusted)	
Parameter F C		SDL Based Result	MQL Based Besult	Method Blank Result	Units	Dilut	tion S	DL	MQL (Unadjusted)	MDL (Unadjusted)	
U	1,2,3,4	<5.85	<56.0	<5.85	mg/Kg	1			50	5.22	
	F	C	Result 33.0	Units mg/Kg	Diluti 1	on	Amou		Percent Recovery 132	Recovery Limits 48.9 - 172	
	contin F F	continued           F         C           F         C           U         1,2,3,4           F         F	SDL Based F C Result SDL Based F C Result U 1,2,3,4 <5.85	continued SDL MQL Based Based F C SDL Result C SDL MQL Based Based F C Result U 1,2,3,4 <5.85 <56.0	Short I         continued         SDL       MQL       Method         Based       Based       Blank         F       C       Result       Result         SDL       MQL       Method         Based       Based       Blank         F       C       Result       Result         U       1,2,3,4       <5.85	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	

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

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH G 125132 105811				Date	lytical Metl e Analyzed: ple Prepara	201	015 D 5-09-25 5-09-24		Prep Meth Analyzed Prepared	By: AK
			SDL	М	ДL	Method					
			Based	Bas	ed	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Res	ult	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
GRO	U	5	<2.60	<4.	48	< 2.60	mg/Kg	1	2.60	4	2.32
Surrogate				F	С	Result	Units	Dilution	Spike Amour		Recovery Limits
Trifluorotolu	ene (TFT	]		J		1.87	mg/Kg	1	2.00	94	70 - 130
4-Bromofluor	obenzene	e (4-B	FB)	J		1.72	$\mathrm{mg/Kg}$	1	2.00	86	70 - 130

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

Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 125111 105811	l		Date A	ical Method nalyzed: e Preparatio	2015-0	09-24		Prep Metl Analyzed Prepared	By: AK
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
Benzene	U	5	< 0.00555	< 0.0208	< 0.00555	mg/Kg	1	0.00555	0.02	0.00533
Toluene	U	5	$<\!0.00671$	< 0.0208	$<\!0.00671$	$\mathrm{mg/Kg}$	1	0.00671	0.02	0.00645
Ethylbenzene	U U	5	< 0.0121	< 0.0208	< 0.0121	$\mathrm{mg/Kg}$	1	0.0121	0.02	0.0116
Xylene	U	5	< 0.00910	< 0.0208	< 0.00910	$\mathrm{mg/Kg}$	1	0.00910	0.02	0.00874

Report Date: October 6, 2015			Work C Short	Page Number: 15 of 46 Lea Co, NM				
Surrogate	F	С	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.98	mg/Kg	1	2.00	99 101	70 - 130 70 - 120
4-Bromofluorobenzene (4-BFB)	uorobenzene (4-BFB) $2.02 \text{ mg/Kg}$ 1 $2.00$							70 - 130

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

Laboratory: Analysis: QC Batch: Prep Batch:	Lubboc Chlorid 125365 106048			Ar Da Sa	Prep M Analyze Prepare	•				
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
Chloride		$^{3,4,6}$	189	189	<4.88	mg/Kg	1	4.88	25	4.69

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

Laboratory:	Midland							
Analysis:	Moisture Content		Analytical	Method:	ASTM D 2210	6-05	Prep Method:	N/A
QC Batch:	125095		Date Anal	yzed:	2015-09-24		Analyzed By:	AM
Prep Batch:	105818		Sample Pr	eparation:	2015-09-23		Prepared By:	AM
				RI	L. L			
Parameter		$\mathbf{F}$	$\mathbf{C}$	Result	t Un	its	Dilution	$\operatorname{RL}$
Moisture			5	3.93	3 9	6	1	0

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

Laboratory: Analysis: QC Batch: Prep Batch:	Lubboo TPH D 125089 105814			Date	lytical Metl e Analyzed: ple Prepara	201	015 D 5-09-24 5-09-23		Prep M Analyze Prepare	ed By: HJ
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	$<\!5.43$	$<\!52.0$	$<\!5.43$	mg/Kg	1	5.43	50	5.22
Surrogate		F	С	Result	Units	Diluti		pike nount	Percent Recovery	Recovery Limits
n-Tricosane		J	3	35.5	m mg/Kg	1		25.0	142	48.9 - 172

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

Report Date	e: Octobe	r 6, 2	015				order: 1509 Fuse Fed :	Page Number: 16 of 46 Lea Co, NM			
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH G 125132 105811				Date	ytical Metl Analyzed: ple Prepara	201	015 D 5-09-25 5-09-24		Prep Metl Analyzed Prepared	By: AK
	_		SDL Based	Bas		Method Blank				MQL	MDL
Parameter	F	С	Result	Res		Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
GRO	U	5	<2.41	<4	.16	<2.41	mg/Kg	1	2.41	4	2.32
Surrogate				F	С	Result	Units	Dilution	Spike Amour		Recovery Limits
	Trifluorotoluene (TFT)					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: Analysis: QC Batch: Prep Batch:	Mid BT 125 105	111	l		Ι	Date A	ical Metho analyzed: Preparatio	2015-0	09-24		Prep Meth Analyzed I Prepared I	By: AK
				$\operatorname{SDL}$	]	MQL	Method					
				Based	E	ased	Blank				MQL	MDL
Parameter		$\mathbf{F}$	$\mathbf{C}$	Result	R	$\operatorname{esult}$	Result	Units	Dilution	$\operatorname{SDL}$	(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	$\mathrm{mg/Kg}$	1	0.00785	0.02	0.00645
Ethylbenzene	,	U	5	< 0.0141	< 0.	0243	< 0.0141	$\mathrm{mg/Kg}$	1	0.0141	0.02	0.0116
Xylene		U	5	< 0.0106	< 0.	0243	< 0.0106	m mg/Kg	1	0.0106	0.02	0.00874
										Spike	Percent	Recovery
Surrogate					$\mathbf{F}$	С	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene ('	TFT	')				1.98	m mg/Kg	1	2.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)							1.99	m mg/Kg	1	2.00	100	70 - 130

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

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride 125365 106048			Ar Da Sa	Prep M Analyze Prepare	v				
			$\operatorname{SDL}$	MQL	Method					
			Based	Based	$\operatorname{Blank}$				MQL	MDL
Parameter	$\mathbf{F}$	С	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
Chloride		$^{3,4,6}$	482	482	<11.4	mg/Kg	2	11.4	25	4.69

Report Date	:: October 6, 2015			ork Order: 1 Short Fuse F			Page Number: 17 of 46 Lea Co, NM		
Sample: 40	4969 - FUSE-C-4	4'-092120	)15						
Laboratory: Analysis: QC Batch: Prep Batch:	Midland Moisture Content 125095 105818		Date Ana	l Method: lyzed: reparation:	ASTM D 2 2015-09-24 2015-09-23		Prep Method: Analyzed By: Prepared By:	,	
Parameter		F	С	RL Result		Units	Dilution	$\operatorname{RL}$	
ratameter     r       Moisture		5	17.8		%	1	$\frac{\mathrm{RL}}{0}$		

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

Laboratory:	Lubboo	k								
Analysis:	TPH D	RO		Anal	lytical Meth	015  D		Prep M	ethod: N/A	
QC Batch:	125089			Date	Analyzed:	201	5-09-24		Analyze	ed By: HJ
Prep Batch:	105814			Sam	Prepare	ed By: HJ				
			$\operatorname{SDL}$	MQL	Method					
			Based	Based	$\operatorname{Blank}$				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	$<\!6.35$	<60.8	$<\!\!6.35$	$\mathrm{mg/Kg}$	1	6.35	50	5.22
							S	pike	Percent	Recovery
Surrogate		$\mathbf{F}$	$\mathbf{C}$	Result	Units	Diluti	on Ai	$\operatorname{nount}$	Recovery	Limits
n-Tricosane		J	3	30.8	m mg/Kg	1		25.0	123	48.9 - 172

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

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH G 125132 105811	-			Ana Date Sam	Prep Meth Analyzed Prepared	By: AK				
			SDL	M	ДL	Method					
			Based	Bas	sed	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Res	ult	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
GRO	U	5	<2.82	<4.	.87	<2.82	mg/Kg	1	2.82	4	2.32
Surrogate				F	С	Result	Units	Dilution	Spike Amou		Recovery Limits
Trifluorotolu	ene (TFT	.)		J		1.83	mg/Kg	1	2.00	92	70 - 130
4-Bromofluor	obenzene	e (4-B	FB)	J		1.69	mg/Kg	1	2.00	84	70 - 130

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

Report Date: October 6, 2015		rder: 15092227 Fuse Fed #1		Page Number: 18 of 46 Lea Co, NM		
Laboratory:MidlandAnalysis:BTEXQC Batch:125111Prep Batch:105811	Analytical Metho Date Analyzed: Sample Preparat		Prep Method: S 5035 Analyzed By: AK Prepared By: AK			
SDL	MQL Method	1				
Based	Based Blank	ζ		MQL	MDL	
Parameter F C Result	Result Result	t Units Dilution	SDL	(Unadjusted)	(Unadjusted)	
Benzene U 5 <0.00566	< 0.0212 < 0.00566	6 mg/Kg 1	0.00566	0.02	0.00533	
Toluene u 5 <0.00685	< 0.0212 < 0.00685	5 mg/Kg 1	0.00685	0.02	0.00645	
Ethylbenzene u 5 <0.0123	< 0.0212 < 0.0123	3  mg/Kg = 1	0.0123	0.02	0.0116	
Xylene u 5 <0.00929	< 0.0212 < 0.00929	$M_{\rm mg}/{\rm Kg}$ 1	0.00929	0.02	0.00874	
			Spike	Percent	Recovery	
Surrogate	F 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: Analysis: QC Batch: Prep Batch:	Lubboc Chlorid 125365 106048			Ar Da Sa	Prep M Analyze Prepare	v				
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	С	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
Chloride		$^{3,4,6}$	<b>234</b>	<b>234</b>	$<\!4.98$	mg/Kg	1	4.98	25	4.69

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

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Moisture Content 125095 105818		Analytical Date Anal Sample Pr	yzed:	ASTM D 22 2015-09-24 2015-09-23	216-05	Prep Method: Analyzed By: Prepared By:	AM
				RI	_			
Parameter		$\mathbf{F}$	$\mathbf{C}$	Resul	t T	Units	Dilution	$\operatorname{RL}$
Moisture			5	5.89	)	%	1	0

# Sample: 404970 - FUSE-C-6'-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
U		v		<i>v v</i>	

Report Date:	Octobe	er 6, 201	.5		Work Or Short 1	Page Number: 19 of 46 Lea Co, NM				
			SDL	MQL	Method					
			Based	Based	$\operatorname{Blank}$				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	$<\!5.55$	<53.1	$<\!5.55$	$\mathrm{mg/Kg}$	1	5.55	50	5.22
							;	Spike	Percent	Recovery
Surrogate		$\mathbf{F}$	С	Result	Units	Diluti	on A	mount	Recovery	Limits
n-Tricosane		J	3	32.5	mg/Kg	1		25.0	130	48.9 - 172

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

Laboratory:	Midland	1									
Analysis:	TPH G	RO			Ana	lytical Met	hod: S 8	015 D		Prep Meth	nod: S $5035$
QC Batch:	125132				Date	e Analyzed:	201	5-09-25		Analyzed	By: AK
Prep Batch:	105811				Sam	ple Prepara	ation: 201	5-09-24		Prepared 1	By: AK
			SDL	M	ĴГ	Method					
			Based	Bas	ed	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Res	ult	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
GRO	U	5	$<\!2.46$	<4.	25	$<\!2.46$	$\mathrm{mg/Kg}$	1	2.46	4	2.32
									Spike	e Percent	Recovery
Surrogate				$\mathbf{F}$	С	Result	Units	Dilution	Amou	nt Recovery	Limits
Trifluorotolue	ene (TFT	])		J		1.84	mg/Kg	1	2.00	92	70 - 130
4-Bromofluor	obenzene	e (4-B	FB)	J		1.67	$\mathrm{mg/Kg}$	1	2.00	84	70 - 130

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

Laboratory: Analysis: QC Batch: Prep Batch:	Mid BTI 125 105	111	1		Ι	Analyt Date A Sample		Prep Meth Analyzed Prepared I	By: AK			
				SDL	l	MQL	Method					
				Based	В	ased	Blank				MQL	MDL
Parameter		$\mathbf{F}$	$\mathbf{C}$	Result	R	$\operatorname{esult}$	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
Benzene		U	5	< 0.00601	<0.	0225	< 0.00601	mg/Kg	1	0.00601	0.02	0.00533
Toluene		U	5	< 0.00727	< 0.	0225	< 0.00727	$\mathrm{mg/Kg}$	1	0.00727	0.02	0.00645
Ethylbenzene	e	U	5	< 0.0131	< 0.	0225	< 0.0131	m mg/Kg	1	0.0131	0.02	0.0116
Xylene		U	5	$<\!0.00985$	< 0.	0225	$<\!0.00985$	m mg/Kg	1	0.00985	0.02	0.00874
										Spike	Percent	Recovery
Surrogate					F	С	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	Trifluorotoluene (TFT)							mg/Kg	1	2.00	103	70 - 130
4-Bromofluor	oben	zene	e (4-1	BFB)			2.10	mg/Kg	1	2.00	105	70 - 130

Report Date	: Octobe	r 6, 201	15			rder: 150 Fuse Fec		Page Number: 20 of 46 Lea Co, NM							
Sample: 40	Sample: 404971 - FUSE-C-8'-09212015														
Laboratory: Analysis: QC Batch: Prep Batch:	Lubboc Chlorid 125365 106048			Dε	aalytical Me te Analyze mple Prepa	d:	E 300.0 2015-10-05		Prep M Analyze Prepare	ed By: RL					
Parameter	$\mathbf{F}$	$\mathbf{C}$	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)					
Chloride		$^{3,4,6}$	<b>524</b>	<b>524</b>	<10.6	mg/Kg	g 2	10.6	25	4.69					

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

Laboratory: Analysis: QC Batch: Prep Batch:	Moisture Content 125095		Analytical Date Anal Sample Pr	yzed:	ASTM D 2216-05 2015-09-24 2015-09-23	Prep Method: Analyzed By: Prepared By:	ÁM
				RL			
Parameter		$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dilution	$\operatorname{RL}$
Moisture			5	11.3	%	1	0

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

Laboratory:	Lubboo	k								
Analysis:	TPH D	RO		Anal	lytical Meth	nod: S 8	$015 \mathrm{D}$		Prep M	ethod: N/A
QC Batch:	125089			Date	Analyzed:	201	5-09-24		Analyze	ed By: HJ
Prep Batch:	105814			Sam	ple Prepara	tion: $201$	5-09-23		Prepare	ed By: HJ
			SDL	MQL	Method					
			Based	Based	$\operatorname{Blank}$				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	$<\!5.88$	$<\!56.4$	$<\!5.88$	$\mathrm{mg/Kg}$	1	5.88	50	5.22
Cumerata		F	C	Degult	IIn:ta	D:1+		pike	Percent	Recovery
Surrogate		F	С	Result	Units	Diluti	-	nount	Recovery	Limits
n-Tricosane		J	3	30.8	mg/Kg	1	2 2	25.0	123	48.9 - 172

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

Report Date:	Octobe	r 6, 2	015	Work Order: 15092227 Short Fuse Fed #1						Page Number: 21 of 46 Lea Co, NM		
	Б	C	SDL Based	Bas		Method Blank	TT •/			MQL	MDL	
Parameter	F	С	Result	Res		Result	Units	Dilution	SDL	(Unadjusted)	(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	
Trifluorotoluen	e (TFT	.)		J		1.92	mg/Kg	1	2.00	) 96	70 - 130	
4-Bromofluorobenzene (4-BFB)				J		1.79	mg/Kg	1	2.00	) 90	70 - 130	

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

Laboratory: Analysis: QC Batch: Prep Batch:	Mid BTI 1251 1058	EX 111	l		Analytical Method:S 8021BDate Analyzed:2015-09-24Sample Preparation:2015-09-24						Prep Meth Analyzed I Prepared I	By: AK
				SDL	1	MQL	Method					
				Based	Е	ased	Blank				MQL	MDL
Parameter		$\mathbf{F}$	$\mathbf{C}$	Result	R	$\operatorname{esult}$	Result	Units	Dilution	$\operatorname{SDL}$	(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	$\mathrm{mg/Kg}$	1	0.00735	0.02	0.00645
Ethylbenzene	e	U	5	< 0.0132	< 0.	0228	< 0.0132	$\mathrm{mg/Kg}$	1	0.0132	0.02	0.0116
Xylene		U	5	$<\!0.00995$	< 0.	0228	$<\!0.00995$	m mg/Kg	1	0.00995	0.02	0.00874
										Spike	Percent	Recovery
Surrogate					$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene ('	ΓFΤ	')				2.04	mg/Kg	1	2.00	102	70 - 130
4-Bromofluor	oben	zene	(4-I	BFB)			1.90	mg/Kg	1	2.00	95	70 - 130

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

Analysis:	Chloride	e (IC)		Ar	nalytical Me	ethod:	E 300.0		Prep M	ethod: N/A
QC Batch:	125365	. ,		Da	ate Analyze	d:	2015-10-05		Analyze	ed By: RL
Prep Batch:	106048			Sa	mple Prepa	ration:			Prepare	ed By: RL
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Chloride	Qs	3, 4, 6	651	651	<26.7	mg/Kg	r 5	26.7	25	4.69

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

Laboratory: Midland

Report Date	e: October 6, 2015			ork Order: 1 Short Fuse F	0	Page Number: 22 of 46 Lea Co, NM		
Analysis: QC Batch: Prep Batch:	Moisture Content 125095 105818		Analytical Date Anal Sample Pr		ASTM D 2216-0 2015-09-24 2015-09-23	5 Prep Method: Analyzed By: Prepared By:	AM	
Parameter		F	С	RL Result		Dilution	RL	
Moisture		T	5	12.2	00	1	0	

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

Laboratory: Analysis: QC Batch: Prep Batch:	Lubboo TPH D 125089 105814	ORO		Date	lytical Meth e Analyzed: ple Prepara		Prep M Analyze Prepare	ed By: HJ		
			SDL	MQL	Method					
			Based	Based	$\operatorname{Blank}$				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	$<\!5.94$	$<\!\!56.9$	$<\!5.94$	m mg/Kg	1	5.94	50	5.22
Surrogate		F	С	Result	Units	Diluti		Spike mount	Percent Recovery	Recovery Limits
n-Tricosane		J	3	36.0	m mg/Kg	1		25.0	144	48.9 - 172

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

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH G 125132 105811			Analytical Method:S 8015 DPrep Method:S 8Date Analyzed:2015-09-25Analyzed By:AFSample Preparation:2015-09-24Prepared By:AF								
			SDL	М	ДL	Method						
			Based	Bas	sed	Blank				MQL	MDL	
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Res	ult	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)	
GRO	U	5	<2.64	<4.	.56	< 2.64	mg/Kg	1	2.64	4	2.32	
Surrogate				F	С	Result	Units	Dilution	Spike Amou		Recovery Limits	
Trifluorotolue	ene (TFT	.)		J		1.94	mg/Kg	1	2.00	97	70 - 130	
4-Bromofluor	obenzene	e (4-B	FB)	J		1.62	mg/Kg	1	2.00	81	70 - 130	

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

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S $8021B$	Prep Method:	S 5035

Report Date:	Report Date: October 6, 2015					Work Or Short 1		Page Number: 23 of 46 Lea Co, NM			
QC Batch: Prep Batch:	$125111 \\ 105811$					.nalyzed: e Preparatio	2015-0 on: 2015-0			Analyzed I Prepared I	v
Flep Datch:	100011			r.	bampie	rieparatio	DII: 2010-0		r repared i	Dy. AK	
			SDL	l	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	< 0.00542	<0.	.0203	< 0.00542	mg/Kg	1	0.00542	0.02	0.00533
Toluene	U	5	< 0.00656	< 0.	0203	< 0.00656	$\mathrm{mg/Kg}$	1	0.00656	0.02	0.00645
Ethylbenzene	U	5	< 0.0118	< 0.	0203	< 0.0118	$\mathrm{mg/Kg}$	1	0.0118	0.02	0.0116
Xylene	U	5	< 0.00889	<0.	.0203	< 0.00889	m mg/Kg	1	0.00889	0.02	0.00874
									Spike	Percent	Recovery
Surrogate				$\mathbf{F}$	С	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	Trifluorotoluene (TFT)						mg/Kg	1	2.00	98	70 - 130
4-Bromofluoro	4-Bromofluorobenzene (4-BFB)						mg/Kg	1	2.00	96	70 - 130

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

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride 125366 106049			Dε	aalytical Me ate Analyze mple Prepa	Prep M Analyze Prepare	•			
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(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: Analysis: QC Batch: Prep Batch:	Midland Moisture Content 125096 105819		Analytical Date Analy Sample Pr	yzed:	ASTM D 2015-09-24 2015-09-23	1	Prep Method: Analyzed By: Prepared By:	ÁM
				RI	- 			
Parameter		F	$\mathbf{C}$	Resul	t	Units	Dilution	$\operatorname{RL}$
Moisture			5	1.6	9	%	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

Report Date:	Octobe	er 6, 201	.5		Work Or Short 1	Page Number: 24 of 46 Lea Co, NM				
			SDL	MQL	Method					
			Based	Based	$\operatorname{Blank}$				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	$<\!5.31$	$\mathrm{mg/Kg}$	1	5.31	50	5.22
							ç	Spike	Percent	Recovery
Surrogate		$\mathbf{F}$	С	Result	Units	Diluti	on A:	mount	Recovery	Limits
n-Tricosane		J	3	32.0	mg/Kg	1		25.0	128	48.9 - 172

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

4-Bromofluor	robenzene	e (4-B)	FB)	J	1	2.00	82	70 - 130			
Trifluorotolu		/		J		$1.80 \\ 1.65$	mg/Kg mg/Kg	1	2.00	90	70 - 130
Surrogate				$\mathbf{F}$	С	Result	Units	Dilution	Amou	nt Recovery	Limits
									Spike	e Percent	Recovery
GRO	U	5	$<\!\!2.36$	<4.	.07	$<\!2.36$	m mg/Kg	1	2.36	4	2.32
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Res	ult	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
			Based	Bas	$\operatorname{sed}$	$\operatorname{Blank}$				MQL	MDL
			SDL	M	$_{ m QL}$	Method					
Prep Batch:	105811				Sam	ple Prepara	ation: 201	5-09-24		Prepared 1	By: AK
QC Batch:	125132				Date	e Analyzed:	201	5-09-25		Analyzed	By: AK
Analysis:	TPH G	RO			Ana	lytical Met	hod: S 8	$015 \mathrm{D}$		Prep Meth	nod: S 5035
Laboratory:	Midland	1									

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

Laboratory: Analysis: QC Batch: Prep Batch:	Midla BTEX 12511 10581	Κ 1	l		Ι	Date A	ical Metho analyzed: e Preparatio		Prep Method: S 5035 Analyzed By: AK Prepared By: AK			
				SDL	1	MQL	Method					
				Based	Е	Based	Blank				MQL	MDL
Parameter	I	ſ	$\mathbf{C}$	Result	R	$\operatorname{esult}$	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Benzene	τ	J	5	< 0.00538	<0.	0202	< 0.00538	mg/Kg	1	0.00538	0.02	0.00533
Toluene	τ	J	5	$<\!0.00652$	< 0.	0202	< 0.00652	$\mathrm{mg/Kg}$	1	0.00652	0.02	0.00645
Ethylbenzene	e τ	J	5	< 0.0117	< 0.	0202	< 0.0117	$\mathrm{mg/Kg}$	1	0.0117	0.02	0.0116
Xylene	τ	J	5	< 0.00883	< 0.	0202	< 0.00883	m mg/Kg	1	0.00883	0.02	0.00874
										Spike	Percent	Recovery
Surrogate					$\mathbf{F}$	С	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TF	T	')				2.07	$\mathrm{mg/Kg}$	1	2.00	104	70 - 130
4-Bromofluor	ne	(4-I	BFB)			2.07	$\mathrm{mg/Kg}$	1	2.00	104	70 - 130	

Report Date	: Octobe	er 6, 201	15			rder: 150 Fuse Fed		Page Number: 25 of 46 Lea Co, NM		
Sample: 40	4974 - F	USE-I	D-4'-092	12015						
Laboratory: Analysis: QC Batch: Prep Batch:	Lubboc Chlorid 125366 106049			Dε	aalytical Me ate Analyze mple Prepa	d:	E 300.0 2015-10-05		Prep M Analyze Prepare	•
			SDL Based	MQL Based	Method Blank				MQL	MDL
Parameter	F	С	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Chloride	J	$^{3,4,6}$	7.24	$<\!25.2$	<4.74	mg/Kg	g 1	4.74	25	4.69

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

Laboratory: Analysis: QC Batch: Prep Batch:	Moisture Content 125096		Analytical Date Anal Sample Pr	yzed:	ASTM D 2216-05 2015-09-24 2015-09-23	Prep Method: Analyzed By: Prepared By:	ÁM
				RL	1		
Parameter		$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dilution	$\operatorname{RL}$
Moisture			5	1.02	%	1	0

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

Laboratory:	Lubboo	k								
Analysis:	TPH D	RO		Ana	lytical Meth	nod: S 8	$015 \mathrm{~D}$		Prep M	ethod: N/A
QC Batch:	125089			Date	Analyzed:	201	5-09-24		Analyze	ed By: HJ
Prep Batch:	105814			Sam	ple Prepara	tion: 201	5-09-23		Prepare	ed By: HJ
			SDL	MQL	Method					
			Based	Based	$\operatorname{Blank}$				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	$<\!\!5.27$	$<\!50.5$	$<\!5.27$	$\mathrm{mg/Kg}$	1	5.27	50	5.22
C .		P	C		TT •	D:1 (		pike	Percent	Recovery
Surrogate		F	С	Result	Units	Diluti		nount	Recovery	Limits
n-Tricosane		J	3	33.0	mg/Kg	1		25.0	132	48.9 - 172

#### 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
Prep Batch:	105811	Sample Preparation:	2015-09-24	Prepared By:	AK

Report Date:	Octobe	r 6, 2	015				Order: 1509 Fuse Fed		Page Number: 26 of 46 Lea Co, NM		
Demonstern	Б	C	SDL Based	Bas		Method Blank	TT:4-		CDI	MQL	MDL
Parameter	F	С	Result	Res		Result	Units	Dilution	SDL	(Unadjusted)	(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
Trifluorotoluen	e (TFT	])		J		1.94	mg/Kg	1	2.00	) 97	70 - 130
4-Bromofluoro	e (4-B	FB)	J		1.74	$\mathrm{mg/Kg}$	1	2.00	) 87	70 - 130	

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

Laboratory: Analysis: QC Batch: Prep Batch:	Mid BTE 1251 1058	EX 11	l		Ι	Date A	ical Metho nalyzed: Preparatio	2015-0	09-24		Prep Meth Analyzed I Prepared I	By: AK
				SDL	l	MQL	Method					
				Based	В	ased	Blank				MQL	MDL
Parameter		$\mathbf{F}$	$\mathbf{C}$	Result	R	$\operatorname{esult}$	Result	Units	Dilution	$\operatorname{SDL}$	(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	$\mathrm{mg/Kg}$	1	0.00677	0.02	0.00645
Ethylbenzene	e	U	5	< 0.0122	< 0.	0210	< 0.0122	$\mathrm{mg/Kg}$	1	0.0122	0.02	0.0116
Xylene		U	5	< 0.00917	< 0.	0210	< 0.00917	m mg/Kg	1	0.00917	0.02	0.00874
										Spike	Percent	Recovery
Surrogate					F	С	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (7	ΓFT	')				2.06	mg/Kg	1	2.00	103	70 - 130
4-Bromofluor	obenz	zene	(4-I	BFB)			1.85	mg/Kg	1	2.00	92	70 - 130

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

Laboratory:	Lubbocl	k								
Analysis:	Chloride	e (IC)		Aı	nalytical Me	ethod:	E 300.0		Prep M	ethod: N/A
QC Batch:	125366			Da	ate Analyze	d:	2015-10-05		Analyze	ed By: RL
Prep Batch:	106049			Sa	mple Prepa	ration:			Prepare	ed By: RL
			$\operatorname{SDL}$	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	С	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
Chloride		$^{3,4,6}$	399	399	< 9.84	mg/Kg	g 2	9.84	25	4.69

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

Laboratory: Midland

Report Date	e: October 6, 2015			ork Order: 1 Short Fuse F	Page Nur	Page Number: 27 of 46 Lea Co, NM			
Analysis: QC Batch: Prep Batch:	Moisture Content 125096 105819		Analytical Date Anal Sample Pi		ASTM D 2216- 2015-09-24 2015-09-23	05 Prep M Analyze Prepare	v		
Parameter		F	С	RL Result		s Dilution	RL		
Moisture		1	5	4.73		1	0		

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

Laboratory: Analysis: QC Batch: Prep Batch:	Lubboo TPH D 125089 105814	ORO		Date	lytical Meth e Analyzed: ple Prepara	201	015 D 5-09-24 5-09-23		Prep M Analyze Prepare	ed By: HJ
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
DRO	J	1,2,3,4	12.4	$<\!\!52.5$	$<\!5.48$	m mg/Kg	1	5.48	50	5.22
Surrogate		F	С	Result	Units	Diluti		pike nount	Percent Recovery	Recovery Limits
n-Tricosane		J	3	34.1	mg/Kg	1	، ۲	25.0	136	48.9 - 172
					5/ 0					

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

Laboratory:	Midland	1									
Analysis:	TPH G				Ana	lytical Metl	hod: $S 8$	$015 \; { m D}$		Prep Meth	nod: S $5035$
QC Batch:	125132					e Analyzed:		5-09-25		Analyzed	
Prep Batch:	105811					ple Prepara		5-09-24		Prepared 1	v
			SDL	M	$_{ m QL}$	Method					
			Based	Bas	$\operatorname{sed}$	Blank				MQL	MDL
Parameter	$\mathbf{F}$	С	Result	Res	$_{ m ult}$	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
GRO	U	5	<2.44	<4.	.20	<2.44	mg/Kg	1	2.44	4	2.32
									Spike	e Percent	Recovery
Surrogate				$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dilution	Amour	nt Recovery	Limits
Trifluorotolu	ene (TFT	')		J		1.86	mg/Kg	1	2.00	93	70 - 130
4-Bromofluor	obenzene	e (4-B	FB)	J		1.57	$\mathrm{mg/Kg}$	1	2.00	78	70 - 130

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

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S $8021B$	Prep Method:	S 5035

Report Date:	r 6, 2	2015				•der: 15092 Fuse Fed #		Page Number: 28 of 46 Lea Co, NM				
QC Batch: Prep Batch:	$125111 \\ 105811$			Date Analyzed: 2015-09-24 Sample Preparation: 2015-09-24						Analyzed By: AK Prepared By: AK		
i iep Daten.	105011			ĸ	ampie	rieparam	i iepaieu i	Dy. AK				
			SDL	I	MQL	Method						
			Based	Е	Based	Blank				MQL	MDL	
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	R	$\operatorname{esult}$	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	$\mathrm{mg/Kg}$	1	0.00676	0.02	0.00645	
Ethylbenzene	U	5	< 0.0122	< 0.	0210	< 0.0122	$\mathrm{mg/Kg}$	1	0.0122	0.02	0.0116	
Xylene	U	5	< 0.00916	<0.	0210	< 0.00916	m mg/Kg	1	0.00916	0.02	0.00874	
									Spike	Percent	Recovery	
Surrogate	Surrogate F						Units	Dilution	Amount	Recovery	Limits	
Trifluorotolue	Trifluorotoluene (TFT)					2.06	mg/Kg	1	2.00	103	70 - 130	
4-Bromofluoro	4-Bromofluorobenzene (4-BFB)					1.92	$\mathrm{mg/Kg}$	1	2.00	96	70 - 130	

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

Laboratory: Analysis: QC Batch: Prep Batch:	Lubboc Chloride 125366 106049			Ar Da Sa	Prep M Analyze Prepare	•				
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	С	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(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: Analysis: QC Batch: Prep Batch:	Midland Moisture Content 125096 105819	Analytical Date Anal Sample Pr	yzed:	ASTM D 2216-05 2015-09-24 2015-09-23	Prep Method: Analyzed By: Prepared By:	AM	
				RL			
Parameter		$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dilution	$\operatorname{RL}$
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

Report Date:	Octobe	er 6, 201	.5		Work Or Short 1	Page Number: 29 of 46 Lea Co, NM				
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
DRO	J	1,2,3,4	28.5	<52.4	$<\!5.47$	$\mathrm{mg/Kg}$	1	5.47	50	5.22
								Spike	Percent	Recovery
Surrogate		$\mathbf{F}$	$\mathbf{C}$	Result	Units	Diluti	on A	$\operatorname{mount}$	Recovery	Limits
n-Tricosane		J	3	36.6	mg/Kg	1		25.0	146	48.9 - 172

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

Laboratory:	Midland	ł									
Analysis:	TPH G	RO			Ana	lytical Met	hod: S 8	015  D		Prep Meth	nod: S $5035$
QC Batch:	125132				Date	e Analyzed:	201	5-09-25		Analyzed 1	By: AK
Prep Batch:	105811				Sam	ple Prepara	ation: 201	5-09-24		Prepared 1	By: AK
			SDL	M	ĴГ	Method					
			Based	Bas	$\operatorname{ed}$	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Rest	$_{ m alt}$	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
GRO	U	5	$<\!2.43$	<4.	19	<2.43	$\mathrm{mg/Kg}$	1	2.43	4	2.32
									Spike	e Percent	Recovery
Surrogate				$\mathbf{F}$	С	Result	Units	Dilution	Amou	nt Recovery	Limits
Trifluorotolu	ene (TFT	])		J		1.91	mg/Kg	1	2.00	96	70 - 130
4-Bromofluor	obenzene	e (4-B	FB)	J		1.63	$\mathrm{mg/Kg}$	1	2.00	82	70 - 130

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

Laboratory: Analysis: QC Batch: Prep Batch:	Midla BTE2 12511 10581	X 11	l		Ι	Date A	ical Metho analyzed: e Preparatio		Prep Meth Analyzed Prepared I	By: AK		
				SDL	I	MQL	Method					
				Based	Е	ased	Blank				MQL	MDL
Parameter		F	$\mathbf{C}$	Result	R	$\operatorname{esult}$	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Benzene		U	5	< 0.00550	<0.	0206	< 0.00550	mg/Kg	1	0.00550	0.02	0.00533
Toluene		U	5	$<\!0.00665$	< 0.	0206	< 0.00665	$\mathrm{mg/Kg}$	1	0.00665	0.02	0.00645
Ethylbenzene	e e e e e e e e e e e e e e e e e e e	U	5	< 0.0120	< 0.	0206	< 0.0120	$\mathrm{mg/Kg}$	1	0.0120	0.02	0.0116
Xylene		U	5	< 0.00902	< 0.	0206	< 0.00902	m mg/Kg	1	0.00902	0.02	0.00874
										Spike	Percent	Recovery
Surrogate					F	С	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	Trifluorotoluene (TFT)							mg/Kg	1	2.00	102	70 - 130
4-Bromofluor	4-Bromofluorobenzene (4-BFB)							$\mathrm{mg/Kg}$	1	2.00	96	70 - 130

Report Date	: Octobe	er 6, 201	5			rder: 150 Fuse Fed		Page Number: 30 of 46 Lea Co, NM		
Sample: 40	4977 - I	TUSE-1	BG-0.5'-	09212015						
Laboratory: Analysis: QC Batch: Prep Batch:		Da	aalytical Me ate Analyze mple Prepa	d:		Prep Method: N/A Analyzed By: RL Prepared By: RL				
			$_{\mathrm{Based}}^{\mathrm{SDL}}$	MQL Based	Method Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
Chloride	J 3,4,6 <b>13.3</b> <25.8 <4.84 mg/Kg 1 4.8							4.84	25	4.69

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

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Moisture Content 125096 105819	Analytical Date Anal Sample Pr		ASTM D 2216-05 2015-09-24 2015-09-23	Prep Method: Analyzed By: Prepared By:	ÁM	
				RI	L		
Parameter		$\mathbf{F}$	$\mathbf{C}$	Result	t Units	Dilution	$\operatorname{RL}$
Moisture			5	3.08	8 %	1	0

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

Laboratory:	Lubboo	k									
Analysis:	TPH D	RO		Ana	lytical Meth	nod: S 8	$015 \ { m D}$		Prep Method: N/A		
QC Batch:	125089			Date	Date Analyzed: 2015-09-24					ed By: HJ	
Prep Batch:	105814			Sam	ple Prepara	Prepare	ed By: HJ				
			SDL	MQL	Method						
			Based	Based	Blank				MQL	MDL	
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)	
DRO	U	1,2,3,4	$<\!5.38$	$<\!51.6$	$<\!5.38$	$\mathrm{mg/Kg}$	1	5.38	50	5.22	
<b>a</b>		F	G		<b>TT 1</b>			pike	Percent	Recovery	
Surrogate		F	С	Result	Units	Diluti	on An	nount	Recovery	Limits	
n-Tricosane		J	3	35.6	mg/Kg	1	2 2	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
Prep Batch:	105811	Sample Preparation:	2015-09-24	Prepared By:	AK

Report Date: October 6, 2015							order: 1509 Fuse Fed :		Page Number: 31 of 46 Lea Co, NM			
Parameter GRO	F	C	SDL Based Result <2.39	M Bas Res	sed ult	Method Blank Result <2.39	Units mg/Kg	Dilution	SDL 2.39	MQL (Unadjusted) 4	MDL (Unadjusted) 2.32	
Surrogate	0		2.00	F	C	Result	Units	Dilution	Spike Amoun	Percent	Recovery Limits	
Trifluorotoluer 4-Bromofluoro	· · · · · · · · · · · · · · · · · · ·	/	FB)	J		$1.87 \\ 1.64$	m mg/Kg $ m mg/Kg$	1 1	$2.00 \\ 2.00$	94 82	70 - 130 70 - 130	

# Method Blanks

## Method Blank (1)

QC Batch: Prep Batch:	$\frac{125089}{105814}$				ate Analyzed: C Preparation:	$\begin{array}{c} 2015\text{-}09\text{-}24 \\ 2015\text{-}09\text{-}23 \end{array}$			lyzed By: HJ pared By: HJ
_			_		<i></i>				Reporting
Parameter			$\mathbf{F}$		$\mathbf{C}$	Result		Units	Limits
DRO					1,2,3,4	< 5.22		mg/Kg	5.22
Surrogate		F	С	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		-	3	29.6	mg/Kg	1	25.0	118	48.9 - 172

### Method Blank (1)

QC Batch: 125111 Prep Batch: 105811			e Analyzed: Preparation		-		d By: AK d By: AK	
								Reporting
Parameter	$\mathbf{F}$		$\mathbf{C}$		Result	Unit	s	Limits
Benzene			5	< 0.00533		mg/ł	Kg	0.00533
Toluene			5	<(	< 0.00645  mg/Kg		Kg	0.00645
Ethylbenzene			5	<	< 0.0116	mg/Kg		0.0116
Xylene			5	<(	0.00874	mg/ł	Kg	0.00874
Surrogate	$\mathbf{F}$	С	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.69	mg/Kg	1	2.00	84	70 - 130
4-Bromofluorobenzene (4-BFB)			1.76	$\mathrm{mg/Kg}$	1	2.00	88	70 - 130

### Method Blank (1)

	Date Analyzed:	2015-09-25	Analy	zed By: AK
	QC Preparation:	2015-09-24	Prepa	ared By: AK
				D
				Reporting
F	$\mathbf{C}$	Result	Units	Limits
	5	<2.32	mg/Kg	2.32
	F			QC Preparation:2015-09-24PrepaFCResultUnits

Report Date: October 6, 2015		Work Orde Short Fu	Pa	Page Number: 33 of 46 Lea Co, NM		
Surrogate	F	C Result	Units Dilution	- <u>1</u>	Percent Recovery Recovery Limits	
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)			ng/Kg 1 ng/Kg 1	2.00 2.00	82 70 - 130 74 70 - 130	
Method Blank (1)						
QC Batch: 125365 Prep Batch: 106048		Date Analyzed: QC Preparation:		Analyzed By: RL Prepared By: RL		
Parameter	F	С	Result	Units	Reporting Limits	
Chloride		3,4,6	<4.69	mg/Kg	4.69	
Method Blank (1)						
QC Batch: 125366 Prep Batch: 106049		Date Analyzed: QC Preparation:	2015-10-05 2015-10-05		Analyzed By: RL Prepared By: RL	
Parameter Chloride	F	С	Result	Units	Reporting Limits	

# Duplicates

## **Duplicate (1)** Duplicated Sample: 404972

QC Batch:125095Date Analyzed:2015-09-24AnalyzePrep Batch:105818QC Preparation:2015-09-23Prepared											
Param		F	С	Duplicate Result	Sample Result	Units	Dilution	RPD	$\operatorname{RPD}$ Limit		
Moisture			5	13.4	12.2	%	1	5	20		
Duplicate (1) Duplicated Sample: 404982											
QC Batch:	125096			Date Anal	•			Analyzed By:			
Prep Batch:	105819			QC Prepa	ration: 2015-	09-23		Prepared By:	AM		
				Duplicato	Sample				BDD		

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

132

118

48.9 - 172

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:													
Param			1	F		LCS	Units	Dil.	Spike Amount		trix sult Rec		Rec. Limit
$\frac{1}{\text{DRO}}$					-		$\frac{0 \text{ ms}}{\text{mg/Kg}}$		500		5.22 88		$\frac{11110}{9 - 130}$
DRO $1,2,3,4$ 438mg/Kg1 $500$ $< 5.22$ 88 $60.9 - 130$ Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.LCSDSpikeMatrixRec.RPDParamFCResultUnitsDil.AmountResultRec.RPD													
DRO				1,2,3,4	459	mg/Kg	1	500	<5.22		60.9 - 130	5	20
Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.													
Surrogate			LC	CS	LCSD				Spike	LCS	LCSD		Rec.

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

n-Tricosane

QC Batch:	125111	Date Analyzed:	2015-09-24	Analyzed By:	AK
Prep Batch:	105811	QC Preparation:	2015-09-24	Prepared By:	$\mathbf{A}\mathbf{K}$

mg/Kg

1

25.0

			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	m mg/Kg	1	2.00	$<\!0.00645$	105	70 - 130
Ethylbenzene		5	2.07	$\mathrm{mg/Kg}$	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.

33.0

29.4

3

			LCSD			Spike	Matrix		Rec.		RPD
Param	$\mathbf{F}$	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	$\operatorname{RPD}$	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	$\mathrm{mg/Kg}$	1	2.00	< 0.0116	100	70 - 130	3	20
Xylene		5	5.97	$\mathrm{mg/Kg}$	1	6.00	< 0.00874	100	70 - 130	1	20

Report Date: October 6, 2015	Work Order: 15092227 Short Fuse Fed #1								Page Number: 36 of 46 Lea Co, NM			
Surrogate	F	С	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit		
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)			$2.00 \\ 2.02$	$1.99 \\ 2.08$	mg/Kg mg/Kg	1 1	$2.00 \\ 2.00$	100 101	$\begin{array}{c} 100 \\ 104 \end{array}$	70 - 130 70 - 130		

### Laboratory Control Spike (LCS-1)

QC Batch:	125132			$\mathrm{Da}$	ate Analyz	ed: $2015$	-09-25		А	nalyzed	By: AK			
Prep Batch:	105811			QC Preparation: 2015-09-24 Prepared By: Al										
					LCS			Spike	Matrix		Rec.			
Param			$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit			
GRO				5	19.4	$\mathrm{mg/Kg}$	1	20.0	$<\!2.32$	97	70 - 130			
D		1 .1	.1	1		1 .1		1 .1 1 1.	. 1.					

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

			LCSD			Spike	Matrix		Rec.		RPD
Param	$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO		5	20.8	$\mathrm{mg/Kg}$	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	$\mathbf{F}$	$\mathbf{C}$	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	$\mathrm{mg/Kg}$	1	2.00	90	89	70 - 130

## Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:	$\frac{125365}{106048}$		Date Analyzed:2015-10-05Analyzed IQC Preparation:2015-10-05Prepared I								·
				LCS			Spike	М	atrix		Rec.
Param		F	C R	lesult	Units	Dil.	Amount	: Re	esult F	lec.	Limit
Chloride			$^{3,4,6}$	274	mg/Kg	; 1	250	<	4.69 1	.10	90 - 110
Percent recov	very is based on the spik	æ rest	ılt. RPD	is based	on the	spike and	spike dup	licate	result.		
			LCSD			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

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Laboratory Control Spike (	LCS-	1)									
QC Batch: 125366 Prep Batch: 106049				Analyzed reparatio		5-10-05 5-10-05				alyzed B pared By	·
Param		F		LCS Result	Units	Dil.	Spike Amount		atrix esult	Rec.	Rec. Limit
Chloride			3,4,6	275	mg/Kg	1	250	<	4.69	110	90 - 110
Percent recovery is based on th	e spik	e resi	ılt. RPD	is based	on the	spike and	spike dup	licate	result.		
			LCSD			Spike	Matrix		Rec.		RPD
Param	$\mathbf{F}$	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		$^{3,4,6}$	275	mg/Kg	1	250	$<\!\!4.69$	110	90 - 11	0 0	20

# Matrix Spikes

#### Matrix Spike (MS-1) Spiked Sample: 404963

QC Batch: 1	125089	Date Analyzed:	2015-09-24	Analyzed By:	HJ
Prep Batch: 1	105814	QC Preparation:	2015-09-23	Prepared By:	ΗJ

			MS			Spike	Matrix		Rec.
Param	$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		1,2,3,4	386	m 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	$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		1,2,3,4	406	$\mathrm{mg/Kg}$	1	500	$<\!5.22$	81	47.9 - 130	5	20
	•1		תחת ע	• 1 1	41	•1 1	•1 1	1. /	14		

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

			${ m MS}$	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	m mg/Kg	1	25	126	132	48.9 - 172

#### Matrix Spike (MS-1) Spiked Sample: 404963

QC Batch:	125111	Date Analyzed:	2015-09-24	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
Benzene		5	1.59	mg/Kg	1	2.00	< 0.00533	80	70 - 130
Toluene		5	1.75	m mg/Kg	1	2.00	$<\!0.00645$	88	70 - 130
Ethylbenzene		5	1.76	$\mathrm{mg/Kg}$	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	$\mathbf{F}$	С	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	$\mathrm{mg/Kg}$	1	2.00	$<\!0.00645$	88	70 - 130	1	20
Ethylbenzene		5	1.85	$\mathrm{mg/Kg}$	1	2.00	< 0.0116	92	70 - 130	5	20
Xylene		5	5.52	$\mathrm{mg/Kg}$	1	6.00	< 0.00874	92	70 - 130	3	20

Report Date: October 6, 2015	r 6, 2015 Work Order: 15092227 Page Number: 39 of 46 Short Fuse Fed #1 Lea Co, NM									
			MS	MSD			Spike	${ m MS}$	MSD	Rec.
Surrogate	F	C I	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	Sampl	le: 4049	)63							
QC Batch: 125132		Dat	te Anal	vzed: 2	015-09-25			Ar	nalyzed l	By: AK
Prep Batch: 105811			Prepar		015-09-24				epared I	•
-		-	-						-	•
			MC			C	:1 14	·		Dee
Param	$\mathbf{F}$	С	MS Result	Unit	s Dil.	-		latrix esult	Rec.	Rec. Limit
GRO	T Qs	5	11.5	mg/K				(2.32	<u>58</u>	70 - 130
Percent recovery is based on the spi				- ,	-				00	10 100
Percent recovery is based on the spi	ike res	sult. R	PD is da	ased on tr	ie spike an	a spike	duplicate	result.		
		MSI	)		Spike	Mat	rix	Rec		RPD
Param I	FC	Resu	lt Un	its Dil.	Amount	Res	ult Rec.	Limi	t RP	D Limit
GRO a	ls 5	11.6	i mg	/Kg 1	20.0	<2.	32 58	70 - 1	30 1	20
Percent recovery is based on the spi	ike res	sult. R	PD is b	ased on th	e spike an	d spike	duplicate	result.		
			MS	MSD			Cuilto	MS	MSD	Rec.
Surrogate	$\mathbf{F}$	C I	Result	Result	Units	Dil.	Spike Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	Ľ	0 1	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
					0/ 0					
Matrix Spike (MS-1) Spiked	Sampl	le: 4049	072							
QC Batch: 125365		Da	te Anal	vzed: 2	015-10-05			A	nalvzed	By: RL
Prep Batch: 106048				ration: 2						By: RL
1		·	-						1	v
						~				
D	Ð	a	MS	, TT ·	וית	-		latrix	л	$\operatorname{Rec.}$
Param Chloride	F	С	Resul					tesult 572	Rec.	Limit 80 - 120
	.1	3,4,6	846	mg/I	-				110	00 - 120
Percent recovery is based on the spi	ike res	sult. R.	PD is b	ased on th	ie spike an	d spike	duplicate	result.		
		MS	D		Spike	Ma	trix	Rec		RPD
Param H	r C	Res		nits Dil	-			Limi		
Chloride Q						1001	10000		10 101	

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Matrix Spike (MS-1)	piked Sa	ample	: 404982										
QC Batch:         125366         Date Analyzed:         2015-10-05           Prep Batch:         106049         QC Preparation:         2015-10-05										Analyzed By: RL Prepared By: RL			
Param Chloride		F	C F	MS Result 290	Units mg/Kg	Dil.	Spike Amount 250	Re	atrix esult 19	Rec.	Rec. Limit 80 - 120		
Percent recovery is based on	the spik	e resu							-	100	00 120		
n	Б	C	MSD	TT •/	וית	Spike	Matrix	ъ	Rec.	מחת	RPD		
Param Chloride	F	C 3,4,6	Result 286	Units mg/Kg	Dil. 1	Amount 250	Result 19	Rec. 107	Limit 80 - 12	RPD ) 1	Limit 20		

# **Calibration Standards**

## Standard (CCV-1)

QC Batch:	125089	Date Analyzed:			2015-09-24		Analy	Analyzed By: HJ		
				CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date		
Param	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		Dat	te Analyzed:	2015-09-24		Analy	Analyzed By: HJ		
				CCVs	CCVs	CCVs	Percent			
				True	Found	Percent	Recovery	Date		
Param	F	С	Units	Conc.	Conc.	Recovery	Limits	Analyzed		
DRO		1,2,3,4	m mg/Kg	500	438	88	80 - 120	2015-09-24		

## Standard (CCV-1)

QC Batch: 125111		Date Analyzed:			2015-09-24		Analy	Analyzed By: AK		
				$\mathrm{CCVs}$	$\mathrm{CCVs}$	$\mathrm{CCVs}$	Percent			
				True	Found	Percent	Recovery	Date		
Param	$\mathbf{F}$	$\mathbf{C}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed		
Benzene		5	mg/kg	0.100	0.106	106	80 - 120	2015-09-24		
Toluene		5	m mg/kg	0.100	0.105	105	80 - 120	2015-09-24		
Ethylbenzene		5	m mg/kg	0.100	0.102	102	80 - 120	2015-09-24		
Xylene		5	m mg/kg	0.300	0.301	100	80 - 120	2015-09-24		

## Standard (CCV-2)

Date Analyzed:				2015-09-24		Analyz	Analyzed By: AK		
			$\mathrm{CCVs}$	$\rm CCVs$	CCVs	Percent			
			True	Found	Percent	Recovery	Date		
$\mathbf{F}$	$\mathbf{C}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed		
	5	mg/kg	0.100	0.105	105	80 - 120	2015-09-24		
	5	m mg/kg	0.100	0.103	103	80 - 120	2015-09-24		
	F	5	F C Units 5 mg/kg	CCVs True F C Units Conc. 5 mg/kg 0.100	$\begin{array}{c ccc} & & & & True & Found \\ \hline F & C & Units & Conc. & Conc. \\ \hline $ $ $ $ mg/kg $ 0.100 $ 0.105 $ \end{array}$	CCVsCCVsCCVsTrueFoundPercentFCUnitsConc.Conc.5mg/kg0.1000.1051055mg/kg0.1000.103103	CCVs         CCVs         CCVs         Percent           True         Found         Percent         Recovery           F         C         Units         Conc.         Conc.         Recovery           5         mg/kg         0.100         0.105         105         80 - 120           5         mg/kg         0.100         0.103         103         80 - 120		

 $continued \dots$ 

Report Date: October				er: 15092227 ise Fed #1	Page Number: 42 of 46 Lea Co, NM			
standard continued				$\rm CCVs$	CCVs	$\mathrm{CCVs}$	Percent	
				True	Found	Percent	Recovery	Date
Param	$\mathbf{F}$	$\mathbf{C}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Ethylbenzene		5	mg/kg	0.100	0.0997	100	80 - 120	2015-09-24
Xylene		5	mg/kg	0.300	0.298	99	80 - 120	2015-09-24

#### Standard (CCV-3)

QC Batch: 125111	25111 Date Analyze				2015-09-24		Analyzed By: AK		
				$\mathrm{CCVs}$	$\rm CCVs$	$\mathrm{CCVs}$	Percent		
				True	Found	Percent	Recovery	Date	
Param	$\mathbf{F}$	$\mathbf{C}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
Benzene		5	mg/kg	0.100	0.102	102	80 - 120	2015-09-24	
Toluene		5	m mg/kg	0.100	0.0997	100	80 - 120	2015-09-24	
Ethylbenzene		5	m mg/kg	0.100	0.0972	97	80 - 120	2015-09-24	
Xylene		5	m mg/kg	0.300	0.286	95	80 - 120	2015-09-24	

## Standard (CCV-1)

QC Batch:	125132	25132		Date Analyzed:	2015-09-25		Analyzed By: AK		
				CCVs True	CCVs Found	CCVs Percent	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	125132		Date Analyzed:	2015-09-25		Analyz	Analyzed By: AK		
				CCVs True	CCVs Found	CCVs Percent	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

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				CCVs True	CCVs Found	CCVs Percent	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	e Analyzed:	2015-10-05		Analy	zed By: RL
				$\mathrm{CCVs}$	$\mathrm{CCVs}$	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	$\mathbf{F}$	$\mathbf{C}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		$^{3,4,6}$	m mg/Kg	25.0	27.1	108	90 - 110	2015-10-05

## Standard (CCV-2)

QC Batch:	125365			Date	e Analyzed:	2015-10-05		Analy	zed By: RL
					CCVs	$\mathrm{CCVs}$	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	e Analyzed:	2015-10-05		Analy	zed By: RL
					$\operatorname{CCVs}$	$\mathrm{CCVs}$	$\mathrm{CCVs}$	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	e Analyzed:	2015-10-05		Analy	zed By: RL
					CCVs True	CCVs Found	CCVs Percent	Percent	Date
					ITue	round	rercent	Recovery	Date
Param	]	F	$\mathbf{C}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			$^{3,4,6}$	m mg/Kg	25.0	27.4	110	90 - 110	2015-10-05

# Limits of Detection (LOD)

					Spike	
Test	Method	Matrix	Instrument	Analyte	Amount	Pass
BTEX	S 8021B	soil	BTEX-2	Benzene	0.0120	Pass
BTEX	S 8021B	soil	BTEX-2	Toluene	0.0120	Pass
BTEX	S 8021B	soil	BTEX-2	Ethylbenzene	0.0120	Pass
BTEX	S 8021B	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

# Appendix

# **Report Definitions**

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

## Laboratory Certifications

	Certifying	Certification	Laboratory
С	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

- 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

Work Order: 15092227 Short Fuse Fed #1

# Attachments

The scanned attachments will follow this page.

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

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Texas 79424 Lubbock, 800-378-1296 806-794-1296 FAX 806 • 794 • 1298 6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915 • 585 • 4944 5002 Basin Street, Suite A1 Texas 79703 432-689-6301 Midland FAX 432 . 689 . 6313 (BioAquatic) 2501 Mayes Rd., Suite 100 Carroliton, Texas 75006 972-242-7750 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

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

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, Inc.

			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.

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

Blain wich 91

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

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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 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.

# **Analytical Report**

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

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

Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 125138 105841			]	Analytical Method:S 8021BDate Analyzed:2015-09-25Sample Preparation:2015-09-24					Prep Meth Analyzed I Prepared I	By: AK
			SDL		MQL	Method					
			Based		Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	]	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Benzene	$Q_{s,U}$	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	$\mathrm{mg/Kg}$	1	0.00685	0.02	0.00645
Ethylbenzene	U U	5	< 0.0123	<	0.0212	< 0.0123	$\mathrm{mg/Kg}$	1	0.0123	0.02	0.0116
Xylene	U	5	< 0.00928	<	0.0212	< 0.00928	$\mathrm{mg/Kg}$	1	0.00928	0.02	0.00874
									Spike	Percent	Recovery
Surrogate				$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)						2.04	$\mathrm{mg/Kg}$	1	2.00	102	70 - 130
4-Bromofluor	obenzene	(4-B)	FB)			1.66	m mg/Kg	1	2.00	83	70 - 130

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

Laboratory: Analysis: QC Batch: Prep Batch:	Lubboc Chloride 125366 106049			Dε	nalytical Me ate Analyze mple Prepa	d:	E 300.0 2015-10-05		Prep M Analyze Prepare	•
			SDL	MQL	Method					
			Based	Based	$\operatorname{Blank}$				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
Chloride	J	$^{3,4,6}$	16.1	$<\!26.6$	$<\!\!4.98$	mg/Kg	1	4.98	25	4.69

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

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Moisture Content 125096 105819		Analytical Date Anal Sample Pr	yzed:	ASTM D 2216-( 2015-09-24 2015-09-23	05 Prep Method Analyzed By Prepared By:	: AM
				RI	L		
Parameter		$\mathbf{F}$	$\mathbf{C}$	Resul	t Units	s Dilution	$\operatorname{RL}$
Moisture			5	$5.8_{-}$	4 %	1	0

Report Date	: Octobe	r 6, 201	5		Work C Short	Page Number: 6 of 26 Lea Co, NM						
Sample: 40	4978 - F	USE-A	<b>A-2'-092</b> 1	2015								
Laboratory: Analysis: QC Batch: Prep Batch:	Lubboc TPH D 125089 105814			Analytical Method:S 8015 DDate Analyzed:2015-09-24Sample Preparation:2015-09-23						ethod: N/A d By: HJ d By: HJ		
Parameter DRO	F	C 1,2,3,4	SDL Based Result 41.7	MQL Based Result <53.1	Method Blank Result <5.54	Units mg/Kg	Dilution 1	$\frac{\text{SDL}}{5.54}$	MQL (Unadjusted) 50	MDL (Unadjusted) 5.22		
Surrogate n-Tricosane		F	C	Result 37.3	Units mg/Kg	Diluti	on Ar	pike nount 25.0	Percent Recovery 149	Recovery Limits 48.9 - 172		
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH G 125143 105841			Date	vtical Meth Analyzed: le Prepara	2015	15 D 5-09-25 5-09-24		Prep Method: S 503: Analyzed By: AK Prepared By: AK			
QC Batch:	125143	κΟ	SDL	Date Samp MQL	Analyzed: le Prepara Method	Analyzed Prepared	By: AK By: AK					
Parameter GRO	F <sub>Qr,Qs</sub>	,U 5	Based Result <2.46	Based Result <4.25	Blank Result <2.46	Units mg/Kg	Dilution 1	SDL 2.46	MQL (Unadjusted) 4	MDL (Unadjusted) 2.32		
Surrogate Trifluorotolu 4-Bromofluor	· ·	/	3)	F C	Result 1.99 1.84	Units mg/Kg mg/Kg	Dilution 1 1	Spike Amoun 2.00 2.00	Percent at Recovery 100 92	Recovery Limits 70 - 130 70 - 130		
Sample: 40	4979 - F	USE-A	A-4'-0921	2015								
Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 125138 105841			Analyt Date A	ical Metho malyzed: e Preparati	2015-	09-25		Prep Metl Analyzed Prepared	By: AK		
			SDL Based	MQL Based	Method Blank				MQL	MDL		

			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Benzene	U	5	< 0.00604	< 0.0227	< 0.00604	mg/Kg	1	0.00604	0.02	0.00533
Toluene	U	5	$<\!0.00731$	< 0.0227	< 0.00731	$\mathrm{mg/Kg}$	1	0.00731	0.02	0.00645
Ethylbenzene		5	0.0619	0.0619	< 0.0132	$\mathrm{mg/Kg}$	1	0.0132	0.02	0.0116
									1	

continued ...

Report Date: October 6, 2015	Work Order: 15092228 Short Fuse Fed $\#1$	Page Number: 7 of 26 Lea Co, NM
sample 404979 continued		

	Б	C	SDL Based	E	MQL Based	Method Blank			CDI	MQL	MDL
Parameter	F	С	Result	R	esult	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Xylene		5	0.317	0	.317	< 0.00991	m mg/Kg	1	0.00991	0.02	0.00874
~				_	~				Spike	Percent	Recovery
Surrogate				F	$\mathbf{C}$	$\operatorname{Result}$	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene	(TFT	')				1.91	mg/Kg	1	2.00	96	70 - 130
4-Bromofluorobe	enzene	(4-E	BFB)			1.71	$\mathrm{mg/Kg}$	1	2.00	86	70 - 130

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

Laboratory: Analysis: QC Batch: Prep Batch:	Lubboc Chlorid 125366 106049			Dε	aalytical Me te Analyze mple Prepa	Prep M Analyze Prepare	v			
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(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: Analysis: QC Batch: Prep Batch:	Midland Moisture Content 125096 105819		Analytical Date Analy Sample Pr	yzed:	ASTM D 2 2015-09-24 2015-09-23	216-05	Prep Method: Analyzed By: Prepared By:	AM
				RI	L			
Parameter		F	$\mathbf{C}$	Result	t	Units	Dilution	$\operatorname{RL}$
Moisture			5	11.8	3	%	1	0

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

Laboratory: Analysis: QC Batch: Prep Batch:	Lubboc TPH D 125089 105814			Anal Date Sam	Prep M Analyze Prepare	v				
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
DRO		1,2,3,4	<b>254</b>	<b>254</b>	$<\!\!5.92$	mg/Kg	1	5.92	50	5.22

Report Date	e: October 6, 2	015		Work Order: Short Fuse	Page Number: 8 of 26 Lea Co, NM			
Surrogate	$\mathbf{F}$	С	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	$_{ m J,Qs1}$	3	45.2	mg/Kg	1	25.0	181	48.9 - 172
Sample: 40	4979 - FUSE	-A-4'-092	12015					
Laboratory:	Midland							
Analysis:	TPH GRO		v	tical Method:	S 8015 D		Prep Met	
QC Batch:	125143			Analyzed:	2015-09-25		Analyzed	v
Prep Batch:	105841		Samp	le Preparation:	2015-09-24		Prepared	By: AK
		SDL	MQL	Method				

			SDL	IVI	QL	Method					
			Based	Bas	sed	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Res	ult	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
GRO	$\mathbf{Qr}$	5	13.2	13	3.2	<2.63	mg/Kg	1	2.63	4	2.32
									Spike	e Percent	Recovery
Surrogate				F	С	Result	Units	Dilution	Spike Amour		Recovery Limits
Surrogate Trifluorotoluene	e (TFT	<sup>1</sup> )		F	С	Result 1.89	Units mg/Kg	Dilution 1	1		•
	· ·	/	FB)	F J	С			Dilution 1 1	Amour	nt Recovery	Limits

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

Laboratory:	Midla	nd										
Analysis:	BTEX	ζ			A	Analyt	ical Method	d: S 802	1B		Prep Meth	nod: S $5035$
QC Batch:	12513	8			Ι	Date A	analyzed:	2015-		Analyzed 1	By: AK	
Prep Batch:	10584	1			S	ample	e Preparatio	on: 2015-		Prepared By: AK		
				<b>GDI</b>		101						
				$\operatorname{SDL}$	1	MQL	Method					
				Based	Е	ased	Blank				MQL	MDL
Parameter	]	P	$\mathbf{C}$	Result	R	$\operatorname{esult}$	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Benzene	τ	J	5	< 0.00626	<0.	0235	< 0.00626	mg/Kg	1	0.00626	0.02	0.00533
Toluene	τ	J	5	< 0.00757	< 0.	0235	< 0.00757	$\mathrm{mg/Kg}$	1	0.00757	0.02	0.00645
Ethylbenzene	e t	J	5	< 0.0136	< 0.	0235	< 0.0136	$\mathrm{mg/Kg}$	1	0.0136	0.02	0.0116
Xylene	τ	J	5	< 0.0102	< 0.	0235	< 0.0102	$\mathrm{mg/Kg}$	1	0.0102	0.02	0.00874
										$\operatorname{Spike}$	Percent	Recovery
Surrogate					$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TI	T (	)				1.85	mg/Kg	1	2.00	92	70 - 130
4-Bromofluor	obenze	ne	$(4-\mathbf{F})$	BFB)			1.43	$\mathrm{mg/Kg}$	1	2.00	72	70 - 130

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

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A

Report Date	e: Octobe	r 6, 20	15		Work C Short	Page Number: 9 of 26 Lea Co, NM				
QC Batch: Prep Batch:	$125366 \\ 106049$				ate Analyze mple Prepa	Analyze Prepare	v			
			SDL Based	MQL Based	Method Blank				MQL	MDL
Parameter	$\mathbf{F}$	С	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
Chloride	J	$^{3,4,6}$	26.9	<29.3	$<\!5.50$	mg/Kg	1	5.50	25	4.69

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

Laboratory:	Midland							
Analysis:	Moisture Content		Analytical N	Iethod:	ASTM D 221	16-05	Prep Method:	N/A
QC Batch:	125096		Date Analyz	zed:	2015-09-24		Analyzed By:	AM
Prep Batch:	105819		Sample Prep	paration:	2015-09-23		Prepared By:	AM
				RI	L			
Parameter		F	$\mathbf{C}$	Result	t U	nits	Dilution	$\operatorname{RL}$
Moisture			5	14.8	3	%	1	0

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

Laboratory:	Lubboc	k								
Analysis:	TPH D	RO		Anal	lytical Meth	nod: S 8	$015 \ { m D}$		Prep M	ethod: N/A
QC Batch:	125089			Date	Analyzed:	201	5-09-24		Analyze	ed By: HJ
Prep Batch:	105814			Sam	ple Prepara	Prepare	ed By: HJ			
			$\operatorname{SDL}$	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
DRO	U	1,2,3,4	< 6.13	$<\!58.7$	< 6.13	$\mathrm{mg/Kg}$	1	6.13	50	5.22
							S	spike	Percent	Recovery
Surrogate		$\mathbf{F}$	$\mathbf{C}$	Result	Units	Diluti	on Ai	nount	Recovery	Limits
n-Tricosane		J	3	32.0	mg/Kg	1		25.0	128	48.9 - 172

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

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GR 125143 105841	0		Date	ytical Meth Analyzed: ple Prepara	2015	)15 D 5-09-25 5-09-24		Prep Met Analyzed Prepared	By: AK
Parameter	F	С	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	$_{\rm Qr,U}$	5	$<\!\!2.72$	$<\!\!4.69$	$<\!\!2.72$	m mg/Kg	1	2.72	4	2.32

Report Date: October 6, 2015			Work C Short	Page Number: 10 of 26 Lea Co, NM				
Surrogate	F	С	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	J		1.77	mg/Kg	1	2.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)	J		1.65	$\mathrm{mg/Kg}$	1	2.00	82	70 - 130

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

Laboratory: Analysis: QC Batch: Prep Batch:	Midl BTE 1251 1058	EX .38	l		Ι	Date A	ical Methoe nalyzed: e Preparatio	2015-0		Prep Meth Analyzed I Prepared I	By: AK	
				SDL	l	MQL	Method					
				Based	В	ased	Blank				MQL	MDL
Parameter		F	$\mathbf{C}$	Result	R	$\operatorname{esult}$	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	$\mathrm{mg/Kg}$	1	0.00739	0.02	0.00645
Ethylbenzene	e	U	5	< 0.0133	< 0.	0229	< 0.0133	$\mathrm{mg/Kg}$	1	0.0133	0.02	0.0116
Xylene		U	5	< 0.0100	< 0.	0229	< 0.0100	m mg/Kg	1	0.0100	0.02	0.00874
										Spike	Percent	Recovery
Surrogate					F	С	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ΓFT	')				1.89	mg/Kg	1	2.00	94	70 - 130	
4-Bromofluorobenzene (4-BFB)							1.46	$\mathrm{mg/Kg}$	1	2.00	73	70 - 130

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

Laboratory: Analysis: QC Batch: Prep Batch:	Lubboc Chlorid 125366 106049			Ar Da Sa	Prep M Analyze Prepare	•				
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(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/A
QC Batch:	125096	Date Analyzed:	2015-09-24	Analyzed By:	AM
Prep Batch:	105819	Sample Preparation:	2015-09-23	Prepared By:	AM

Report Date: October	· 6, 2015		ork Order: 150922 Short Fuse Fed #1		Page Number: 11 of 26 Lea Co, NM		
			RL				
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dilution	$\operatorname{RL}$	
Moisture		5	12.7	%	1	0	

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

Laboratory: Analysis: QC Batch: Prep Batch:	Lubboo TPH E 125089 105814	ORO	Prep M Analyze Prepare	ed By: HJ						
			SDL	MQL	Method					
			Based	Based	$\operatorname{Blank}$				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
DRO	J	1,2,3,4	<b>28.4</b>	<57.3	$<\!5.98$	mg/Kg	1	5.98	50	5.22
Surrogate		F	С	Result	Units	Diluti		pike nount	Percent Recovery	Recovery Limits
n-Tricosane		J	3	35.2	m mg/Kg	1		25.0	141	48.9 - 172

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

4-Bromofluor	FB)	J		1.65	m mg/Kg	1	2.00	82	70 - 130		
Trifluorotoluene (TFT)						1.81	$\mathrm{mg/Kg}$	1	2.00	90	70 - 130
Surrogate				F	С	Result	Units	Dilution	Amour	nt Recovery	Limits
									Spike	Percent	Recovery
GRO	$_{\rm Qr,U}$	5	<2.66	<4	4.58	<2.66	mg/Kg	1	2.66	4	2.32
Parameter	$\mathbf{F}$	С	Result	Re	$\operatorname{sult}$	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
			Based	Bε	used	Blank				MQL	MDL
			SDL	Μ	[QL	Method					
Prep Batch:	105841				Samj	ple Prepara	tion: $2013$	5-09-24		Prepared 1	By: AK
QC Batch:	125143					Analyzed:		5-09-25		Analyzed 1	By: AK
Analysis:	TPH GR	O			Anal	ytical Meth	od: S 80	15 D		Prep Meth	nod: S 5035
Laboratory:	Midland										

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

Report Date: O	ctobe:	r 6, 2	2015			Work Or Short 1		Page Number: 12 of 26 Lea Co, NM			
			SDL	I	MQL	Method					
			Based	Е	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	R	$\operatorname{esult}$	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	$\mathrm{mg/Kg}$	1	0.0132	0.02	0.0116
Xylene	U	5	< 0.00998	< 0.	0228	< 0.00998	$\mathrm{mg/Kg}$	1	0.00998	0.02	0.00874
									Spike	Percent	Recovery
Surrogate			$\mathbf{F}$	С	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotoluene				1.87	mg/Kg	1	2.00	94	70 - 130		
4-Bromofluorobenzene (4-BFB)						1.44	$\mathrm{mg/Kg}$	1	2.00	72	70 - 130

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

Laboratory: Analysis: QC Batch: Prop Batch:	Lubboc Chlorid 125366			Dε	aalytical Me ate Analyze mple Prepa	d: 2	E 300.0 2015-10-05		Analyze	•
Prep Batch:	106049			Sa		Prepare	ed By: RL			
			SDL Based	MQL Based	Method Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	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: Analysis: QC Batch: Prep Batch:	Midland Moisture Content 125096 105819		Analytical Date Anal Sample Pi		ASTM D 2216-05 2015-09-24 2015-09-23	5 Prep Method: Analyzed By: Prepared By:	ÁM
				RI	ب		
Parameter		$\mathbf{F}$	$\mathbf{C}$	Resul	t Units	Dilution	$\operatorname{RL}$
Moisture			5	12.	4 %	1	0

### Sample: 404982 - FUSE-A-10'-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
				1. 1	

 $continued \ldots$ 

Report Date:	Octobe	er 6, 201	5		Work Or Short 1	Page Number: 13 of 26 Lea Co, NM								
sample 404982	ample 404982 continued													
Parameter	F	С	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilutio	n SDL	MQL (Unadjusted)	MDL (Unadjusted)				
Parameter	F	С	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilutio	n SDL	MQL (Unadjusted)	MDL (Unadjusted)				
DRO	U	1,2,3,4	<5.96	<57.1	<5.96	mg/Kg	1	5.96	50	5.22				
Surrogate		F	С	Result	Units	Diluti	on A	Spike Amount	Percent Recovery	Recovery Limits				
n-Tricosane		J	3	34.5	mg/Kg	1		25.0	138	48.9 - 172				

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

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GR 125143 105841	GROAnalytical Method:S 8015 DPrep Method:S 503543Date Analyzed:2015-09-25Analyzed By:AK41Sample Preparation:2015-09-24Prepared By:AK											
			SDL	Μ	[QL	Method							
			Based	Βa	ased	Blank				MQL	MDL		
Parameter	$\mathbf{F}$	С	Result	Re	$\operatorname{sult}$	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)		
GRO	$_{\rm Qr,U}$	5	$<\!\!2.65$	<4	4.57	$<\!\!2.65$	mg/Kg	1	2.65	4	2.32		
Surrogate				F	С	Result	Units	Dilution	Spike Amour		Recovery Limits		
Trifluorotolu	ene (TFT)			J		1.79	mg/Kg	1	2.00	90	70 - 130		
4-Bromofluor	obenzene	(4-BF	'B)	J		1.62	$\mathrm{mg/Kg}$	1	2.00	81	70 - 130		

# Method Blanks

### Method Blank (1)

QC Batch: Prep Batch:	$\frac{125089}{105814}$				ate Analyzed: C Preparation:	2015-09-24 2015-09-23			alyzed By: HJ pared By: HJ
									Reporting
Parameter			$\mathbf{F}$		$\mathbf{C}$	Result		Units	Limits
DRO					1,2,3,4	< 5.22	m mg/Kg		5.22
Surrogate		F	С	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			3	29.6	m mg/Kg	1	25.0	118	48.9 - 172

### Method Blank (1)

QC Batch: 125138 Prep Batch: 105841			e Analyzed: Preparation				d By: AK d By: AK	
								Reporting
Parameter	$\mathbf{F}$		$\mathbf{C}$		Result	Unit	s	Limits
Benzene			5	<(	0.00533	mg/ł	Kg	0.00533
Toluene			5	<0.00645 r		mg/F	Kg	0.00645
Ethylbenzene			5	<	<0.0116 mg/Kg		Kg	0.0116
Xylene			5	<(	0.00874	mg/ł	Kg	0.00874
Surrogate	$\mathbf{F}$	С	Result	Units	Dilution	Spike Amount	Percent Recovery	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:	125143		Date Analyzed:	2015-09-25	Analyze	ed By: AK
Prep Batch:	105841		QC Preparation:	2015-09-24	Prepare	ed By: AK
						Den entire e
						Reporting
Parameter		$\mathbf{F}$	$\mathbf{C}$	Result	Units	Limits
GRO			5	<2.32	mg/Kg	2.32

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Surrogate	F	r C	Result	Units	Dilution	Spike Amount	Percent Recovery	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: 125366		Dε	te Analyzed	l: 2015-1	10-05		Analyze	d By: RL
Prep Batch: 106049		QO	C Preparatio	on: 2015-1	10-05		Prepareo	d By: RL
Parameter	F		С		Result	Unit	S	Reporting Limits
Chloride			3,4,6		<4.69	mg/ŀ	Kg	4.69

# Duplicates

### **Duplicate (1)** Duplicated Sample: 404982

QC Batch:	125096			Date Anal	lyzed: 2015-	09-24		Analyzed B	y: AM
Prep Batch:	105819			QC Prepa	ration: 2015-	09-23		Prepared B	y: AM
				Duplicate	Sample				RPD
Param		$\mathbf{F}$	$\mathbf{C}$	Result	Result	Units	Dilution	RPD	Limit
Moisture			5	12.4	12.4	%	1	0	20

132

118

48.9 - 172

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:	$\frac{125089}{105814}$	Date Analyzed:2015-09-24AnalyzedQC Preparation:2015-09-23Prepared 1											
D			-			LCS	TT •		Spike	Mat			Rec.
Param			_	F	C R	lesult	Units	Dil.	Amount	Res		1	Limit
DRO				1,	$^{2,3,4}$	438	mg/Ka	g 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										RPD			
Param			$\mathbf{F}$	$\mathbf{C}$	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 recov	Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.												
			LC	CS	LCSD				Spike	LCS	LCSD		Rec.
Surrogate	F	$\mathbf{C}$	Res	ult	Result	Uni	ts	Dil.	Amount	Rec.	Rec.	Ι	Limit

25.0

### Laboratory Control Spike (LCS-1)

n-Tricosane

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

mg/Kg

1

			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	m mg/Kg	1	2.00	$<\!0.00645$	92	70 - 130
Ethylbenzene		5	1.78	$\mathrm{mg/Kg}$	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.

33.0

29.4

3

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

### Laboratory Control Spike (LCS-1)

QC Batch: 125143 Prep Batch: 105841		Date Analyzed:2015-09-25AnalyzeQC Preparation:2015-09-24Prepare								
			LCS			Spike	Ma	atrix		Rec.
Param	$\mathbf{F}$	C F	$\operatorname{Result}$	Units	Dil.	Amount	$\mathbf{R}\mathbf{e}$	esult	Rec.	Limit
GRO		5	20.3	mg/Kg	1	20.0	<	2.32	102	70 - 130
Percent recovery is based on the sp	ike res	ult. RPI	) is based	d on the	spike and	spike dup	olicate	result.		
		LCSD			Spike	Matrix		Rec.		RPD
Param	F C	Result	Units	Dil.	Amount	Result	Rec.	Limit	$\operatorname{RPD}$	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	$\mathbf{F}$	$\mathbf{C}$	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	$\mathrm{mg/Kg}$	1	2.00	85	84	70 - 130

### Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:	$\frac{125366}{106049}$	Date Analyzed:2015-10-05Analyzed IQC Preparation:2015-10-05Prepared I									
				LCS			Spike	М	atrix		Rec.
Param		F	C F	$\operatorname{Result}$	Units	Dil.	Amount	R	esult F	lec.	Limit
Chloride			$^{3,4,6}$	275	mg/Kg	1	250	<	4.69	10	90 - 110
Percent recov	very is based on the spi	ke res	ult. RPD	is based	on the	spike and	spike dup	licate	result.		
			LCSD			Spike	Matrix		Rec.		RPD
Param	$\mathbf{F}$	С	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

# 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	m 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	$\mathbf{F}$	$\mathbf{C}$	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
	•1	-		• 1 1	41	•1 1	•1 1	1. /	14		

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	m mg/Kg	1	25	126	132	48.9 - 172

### Matrix Spike (MS-1) Spiked Sample: 404978

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

			${ m MS}$			Spike	Matrix		Rec.
Param	F	$\mathbf{C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene	$_{\rm Qs}$	5	1.07	mg/Kg	1	2.00	< 0.00533	54	70 - 130
Toluene	$_{\rm Qs}$	5	1.27	m mg/Kg	1	2.00	$<\!0.00645$	64	70 - 130
Ethylbenzene		5	1.40	$\mathrm{mg/Kg}$	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	$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	$_{\rm Qs}$	5	1.28	mg/Kg	1	2.00	< 0.00533	64	70 - 130	18	20
Toluene		5	1.42	$\mathrm{mg/Kg}$	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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			Ν	ЛS	MSD			Spike	MS	MSD	Rec.
Surrogate		F		sult	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)				.78	1.86	$\mathrm{mg/Kg}$	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) Spike	d Sa	ample	e: 404978	8							
QC Batch: 125143			Date	Analy	zed: 20	15-09-25			A	nalyzed [	By: AK
Prep Batch: 105841				Prepara		15-09-24				repared 1	
			- <b>Q</b> = -							- P	- J ·
				1.0			a				Ð
D		Б	C I	MS	T T :4 -	1:1	-		latrix	Dee	Rec.
Param GRO		F	C 1	Result 10.7	Units mg/K				$\frac{1}{2.32}$	Rec.	Limit 70 - 130
	•1	Qs			01	•				04	10 - 150
Percent recovery is based on the	spik	e res	ult. RPI	J is ba	sed on th	e spike an	id spike	e duplicate	result.		
			MSE	)		Spike	Ma	trix	Rec		RPD
Param	F	C	C Resul	t Ur	nits Dil	. Amour	nt Re	sult Rec.	Lim	it RP	D Limit
GRO	Qr,0	Qs 5	2.78	mg	$/\mathrm{Kg}$ 1	20.0	<2	2.32 14	70 - 1	130 11	8 20
Percent recovery is based on the	spik	e res	ult. RPI	) is ba	sed on th	e spike an	d spike	e duplicate	result.		
				10	MOD			0.11	MC	MOD	D
Surrogate		F		AS sult	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)		Г		.72	1.76	mg/Kg	1	2	86	88 88	70 - 130
4-Bromofluorobenzene (4-BFB)				.72	$1.70 \\ 1.70$	mg/Kg	1	$\frac{2}{2}$	86	85	70 - 130 70 - 130
						0, 0					
Matrix Spike (MS-1) Spike	d Sa	ample	e: 40498	2							
QC Batch: 125366				Analy		15-10-05				nalyzed	
Prep Batch: 106049			QC I	Prepara	ation: 20	15-10-05			Р	repared	By: RL
				MS			S	oike N	fatrix		Rec.
Param		F	$\mathbf{C}$	Result	Unit	s Dil.	-		lesult	Rec.	Limit
Chloride			3,4,6	290	mg/k			250	19	108	80 - 120
Percent recovery is based on the	spik	e res									
i creent recovery is based on the	phir	. 105		- 10 0.04		c spine an	a spine	auphtate	result.		
			MSD			Spike		trix	Rec		RPD
Param	F	С	Result						Lim		
Chloride		$^{3,4,6}$	286	mg/	′Kg 1	250	1	9 107	80 - 1	20 1	20

# **Calibration Standards**

### Standard (CCV-1)

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

### Standard (CCV-1)

QC Batch: 125138			Date	Analyzed:	2015-09-25		Analyz	zed By: AK
				$\mathrm{CCVs}$	$\rm CCVs$	$\mathrm{CCVs}$	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	m mg/kg	0.100	0.0891	89	80 - 120	2015-09-25
Ethylbenzene		5	m mg/kg	0.100	0.0875	88	80 - 120	2015-09-25
Xylene		5	m mg/kg	0.300	0.266	89	80 - 120	2015-09-25

### Standard (CCV-2)

		Date .	Analyzed:	2015-09-25		Analyz	zed By: AK
			$\mathrm{CCVs}$	$\mathrm{CCVs}$	CCVs	Percent	
			True	Found	Percent	Recovery	Date
$\mathbf{F}$	$\mathbf{C}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
	5	mg/kg	0.100	0.0970	97	80 - 120	2015-09-25
	5	m mg/kg	0.100	0.0871	87	80 - 120	2015-09-25
	F	5	F C Units 5 mg/kg	CCVs True F C Units Conc. 5 mg/kg 0.100	$\begin{array}{c ccc} & & & True & Found \\ \hline F & C & Units & Conc. & Conc. \\ \hline & & & & mg/kg & 0.100 & 0.0970 \end{array}$	CCVs     CCVs     CCVs       True     Found     Percent       F     C     Units     Conc.     Conc.       5     mg/kg     0.100     0.0970     97	CCVs     CCVs     CCVs     Percent       True     Found     Percent     Recovery       F     C     Units     Conc.     Conc.     Recovery       5     mg/kg     0.100     0.0970     97     80 - 120

 $continued \dots$ 

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standard continued				$\rm CCVs$	CCVs	$\mathrm{CCVs}$	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	m 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 True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	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		Analyz	Analyzed By: AK	
				CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date	
Param	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		Analy	Analyzed By: RL	
					CCVs	CCVs	$\mathrm{CCVs}$	Percent		
					True	Found	Percent	Recovery	Date	
Param		F	$\mathbf{C}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
Chloride			$^{3,4,6}$	m 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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				CCVs True	CCVs Found	CCVs Percent	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

# Limits of Detection (LOD)

					Spike	
Test	Method	Matrix	Instrument	Analyte	Amount	Pass
BTEX	S 8021B	soil	BTEX-2	Benzene	0.0120	Pass
BTEX	S 8021B	soil	BTEX-2	Toluene	0.0120	Pass
BTEX	S 8021B	soil	BTEX-2	Ethylbenzene	0.0120	Pass
BTEX	S 8021B	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

# Appendix

## **Report Definitions**

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

### Laboratory Certifications

	Certifying	Certification	Laboratory
С	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

- 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

Work Order: 15092228 Short Fuse Fed #1

### Attachments

The scanned attachments will follow this page.

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

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Texas 79424 Lubbock, 800-378-1296 806-794-1296 6701 Aberdeen Avenue, Suite 9 FAX 806 • 794 • 1298 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915 • 585 • 4944 5002 Basin Street, Suite A1 Texas 79703 432-689-6301 Midland FAX 432 . 689 . 6313 (BioAquatic) 2501 Mayes Rd., Suite 100 Carroliton, Texas 75006 972-242-7750 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

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

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, Inc.

			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.

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

Blain wich 91

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

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Duplicates QC Batch 126661 - Duplicate (1)	<b>9</b> 9
Laboratory Control Spikes QC Batch 126856 - LCS (1)	<b>10</b> 10
Matrix Spikes         QC Batch 126856 - MS (1)	<b>11</b> 11
Calibration Standards           QC Batch 126856 - CCV (1)           QC Batch 126856 - CCV (2)	
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Appendix         Report Definitions         Laboratory Certifications         Standard Flags         Attachments	14 14

## 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.

# Analytical Report

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

### Sample: 409116 - Fuse-W-10-11242015

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride 126856 107354			Dat	alytical Me te Analyzec nple Prepar	l: 2	2 300.0 015-12-09		Prep M Analyze Prepare	•
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	С	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
Chloride	B,Jb	1,2,4	21.1	<29.2	14.5	mg/Kg	1	9.74	25	8.34

### Sample: 409116 - Fuse-W-10-11242015

Laboratory: Analysis: QC Batch: Prep Batch:	nalysis: Moisture Content C Batch: 126661		Analytical Date Anal Sample Pr		ASTM D 22 2015-11-30 2015-11-27	16-05	Prep Method: Analyzed By: Prepared By:	ÁM
				RI	L			
Parameter		F	$\mathbf{C}$	Result	t U	Jnits	Dilution	$\operatorname{RL}$
Moisture			3	14.4	1	%	1	0

#### Sample: 409117 - Fuse-N-10-11242015

Laboratory: Analysis: QC Batch: Prep Batch:	Lubboc Chlorid 126856 107354			Dε	nalytical Me ate Analyze mple Prepa	d:	E 300.0 2015-12-09		Prep M Analyze Prepare	v
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
Chloride	В	$^{1,2,4}$	103	103	14.1	mg/Kg	1	9.48	25	8.34

### 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	V	Work Order: 15112 Short Fuse Fed #	-	Page Number: 6 of 15 Lea Co, NM				
QC Batch: 126661 Prep Batch: 107186	Date Anal Sample Pr	lyzed: 2015- reparation: 2015-1		Analyzed By: Prepared By:				
	C	RL		L V				
Parameter F Moisture	3	Result 12.0	Units %	Dilution 1	$\frac{\text{RL}}{0}$			

### Sample: 409118 - Fuse-E-10-11242015

Laboratory: Analysis: QC Batch: Prep Batch:	Lubboc Chlorid 126856 107354			Ar Da Sa	Prep M Analyze Prepare	v				
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	SDL	(Unadjusted)	(Unadjusted)
Chloride	В	$^{1,2,4}$	73.7	73.7	14.6	mg/Kg	1	9.82	25	8.34

### Sample: 409118 - Fuse-E-10-11242015

Laboratory: Analysis: QC Batch: Prep Batch:	alysis: Moisture Content Batch: 126661		Analytical Date Anal Sample Pr	yzed:	ASTM D 2 2015-11-30 2015-11-27		Prep Method: Analyzed By: Prepared By:	ÁM
				RI				
Parameter		$\mathbf{F}$	$\mathbf{C}$	Result	t	Units	Dilution	$\operatorname{RL}$
Moisture			3	15.1	L	%	1	0

### Sample: 409119 - Fuse-FL-10-11242015

Laboratory: Analysis: QC Batch: Prep Batch:	Lubboc Chlorid 126856 107354			Analytical Method:E 300.0Prep Method:Date Analyzed:2015-12-09Analyzed By:Sample Preparation:Prepared By:									
			SDL	MQL	Method								
			Based	Based	Blank				MQL	MDL			
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)			
Chloride	В	$^{1,2,4}$	2000	2000	69.4	$\mathrm{mg/Kg}$	5	46.7	25	8.34			

Report Date	: December 21, 201	5	V	Work Order: Short Fuse	Page Number: 7 of 15 Lea Co, NM			
Sample: 40	9119 - Fuse-FL-1	0-112420	15					
Laboratory:MidlandAnalysis:Moisture ContentQC Batch:126661Prep Batch:107186			Analytical Date Anal Sample Pr		ASTM D 2015-11-30 2015-11-27	)	Prep Method: Analyzed By: Prepared By:	/
				RI	L			
Parameter		$\mathbf{F}$	$\mathbf{C}$	Resul	t	Units	Dilution	$\operatorname{RL}$
Moisture			3	10.'	7	%	1	0

### Sample: 409120 - Fuse-S-10-11242015

Laboratory: Analysis: QC Batch: Prep Batch:	Lubboc Chlorid 126856 107354			Da	nalytical Me ate Analyze mple Prepa	d:	E 300.0 2015-12-09		Prep M Analyze Prepare	v
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter	$\mathbf{F}$	$\mathbf{C}$	Result	Result	Result	Units	Dilution	$\operatorname{SDL}$	(Unadjusted)	(Unadjusted)
Chloride	В	$^{1,2,4}$	30.0	30.0	13.8	mg/Kg	1	9.31	25	8.34

### Sample: 409120 - Fuse-S-10-11242015

Midland							
Moisture Content		Analytica	l Method:	ASTM D 221	6-05	Prep Method:	N/A
126661		Date Ana	lyzed:	2015-11-30		Analyzed By:	AM
107186		Sample P	reparation:	2015 - 11 - 27		Prepared By:	AM
			R	- 			
	F	$\mathbf{C}$	Resul	t Ui	nits	Dilution	$\operatorname{RL}$
		3	10.	4	%	1	0
	Moisture Content 126661	Moisture Content 126661	Moisture ContentAnalytica126661Date Ana107186Sample PFC	Moisture ContentAnalytical Method:126661Date Analyzed:107186Sample Preparation:FCRI	Moisture ContentAnalytical Method:ASTM D 221126661Date Analyzed:2015-11-30107186Sample Preparation:2015-11-27RLFCResultUn	Moisture ContentAnalytical Method:ASTM D 2216-05126661Date Analyzed:2015-11-30107186Sample Preparation:2015-11-27RLFCResultUnits	Moisture ContentAnalytical Method:ASTM D 2216-05Prep Method:126661Date Analyzed:2015-11-30Analyzed By:107186Sample Preparation:2015-11-27Prepared By:RLFCResultUnitsDilution

# Method Blanks

Method Blank (1)

QC Batch: Prep Batch:	$126856 \\ 107354$		Date Analyzed: QC Preparation:	2015-12-09 2015-12-09		lyzed By: RL bared By: RL
						Reporting
Parameter		$\mathbf{F}$	$\mathbf{C}$	Result	Units	Limits
Chloride		В	1,2,4	12.4	mg/Kg	8.34

# Duplicates

### **Duplicate (1)** Duplicated Sample: 409120

QC Batch: Prep Batch:	$\frac{126661}{107186}$			Analyzed By Prepared By	/				
					C 1				DDD
				Duplicate	Sample				$\operatorname{RPD}$
Param		F	$\mathbf{C}$	Result	Result	Units	Dilution	RPD	Limit
Moisture			3	10.8	10.4	%	1	4	20

# Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch:	126856Date Analyzed:2015-12-09Analyzed By:RL0.0120.0120.0120.0120.0120.012										
Prep Batch:	107354QC Preparation:2015-12-09Prepared By:RL										
				LCS			Spike	Matrix		Rec.	
Param		$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	
Chloride			$^{1,2,4}$	261	m mg/Kg	1	250	12.4	99	90 - 110	
Percent recov	very is based on the spi	ike re	sult. Rl	PD is base	d on the sp	ike and	spike duplic	cate result.			

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

# Matrix Spikes

Matrix Spike (MS-1)	Spiked Sample: 409120
---------------------	-----------------------

QC Batch: Prep Batch:	$\frac{126856}{107354}$		Analyzed By: RL Prepared By: RL							
Param		F	С	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			$^{1,2,4}$	279	m mg/Kg	1	250	26.9	101	80 - 120
Percent recov	very is based on th	e spike re	sult. R	PD is base	d on the sp	oike and	spike duplie	cate result.		

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

# **Calibration Standards**

### Standard (CCV-1)

QC Batch:	126856			Date	e Analyzed:	2015-12-09		Analyzed By: RL		
					CCVs	CCVs	CCVs	Percent		
					True	Found	Percent	Recovery	Date	
Param		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:	126856			Date	Date Analyzed: 2015-12-09			Analyzed By: RL		
					CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date	
Param		F	$\mathbf{C}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
Chloride			1,2,4	m mg/Kg	25.0	26.1	104	90 - 110	2015-12-09	

Page Number: 13 of 15 Lea Co, NM

# Limits of Detection (LOD)

					Spike	
Test	Method	Matrix	Instrument	Analyte	Amount	Pass
Chloride (IC)	E 300.0	soil	Dionex IC	Chloride	12.5	Pass

## 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 Short Fuse Fed #1 Page Number: 15 of 15 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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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

March 11, 2016

Bernie Bockish GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672 FAX

OrderNo.: 1603189

RE: Short Fuse Fed #1

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 <u>www.hallenvironmental.com</u> 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,

andis

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** 

Lab Order: 1603189

Hall Environ	mental Analysis	Laborat	ory, Inc.		Date Reporte	:d: 3/11/2	2016
	GHD hort Fuse Fed #1			La	ab Order:	160318	39
Lab ID:	1603189-001			Collection Date:	2/29/2016 11	:55:00 AI	М
Client Sample ID:	S-088210-19-022916-	-SP-01		Matrix:	SOIL		
Analyses		Result	PQL Qual	Units	DF Date Ana	lyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					Anal	yst: LGT
Chloride		ND	1.5	mg/Kg	1 3/8/2016	7:10:29 PN	1 24147
Lab ID:	1603189-002			Collection Date:	2/29/2016 12	:20:00 PN	M
Client Sample ID:	S-088210-19-022916-	-SP-02		Matrix:	SOIL		
Analyses		Result	PQL Qual	Units	DF Date Ana	lyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					Anal	yst: LGT
Chloride		110	30	mg/Kg	20 3/8/2016 8	3:12:32 PN	1 24147
Lab ID:	1603189-003			Collection Date:	2/29/2016 12	:45:00 PN	Ν
Client Sample ID:	S-088210-19-022916-	-SP-03		Matrix:	SOIL		
Analyses		Result	PQL Qual	Units	DF Date Ana	lyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					Anal	yst: LGT
Chloride		22	7.5	mg/Kg	5 3/8/2016 8	3:49:47 PN	1 24147
Lab ID:	1603189-004			Collection Date:	2/29/2016 1:0	)0:00 PM	
Client Sample ID:	S-088210-19-022916-	-SP-04		Matrix:	SOIL		
Analyses		Result	PQL Qual	Units	DF Date Ana	lyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					Anal	yst: LGT
Chloride		ND	7.5	mg/Kg	1 3/8/2016 9	9:14:36 PN	1 24147
Lab ID:	1603189-005			Collection Date:	2/29/2016 1:	10:00 PM	[
Client Sample ID:	S-088210-19-022916-	-SP-05		Matrix:	SOIL		
Analyses		Result	PQL Qual	Units	DF Date Ana	lyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					Anal	yst: LGT

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

**Analytical Report** 

Lab Order: 1603189

nental Analysis	Laborat	ory, Inc.		Date Reported: 3/11/2016
HD nort Fuse Fed #1				<b>Lab Order:</b> 1603189
1603189-006			Collection Da	te: 2/29/2016 1:20:00 PM
S-088210-19-022916-	-SP-06		Matr	rix: SOIL
	Result	PQL Qual	Units	DF Date Analyzed Batch ID
0: ANIONS	ND	7.5	mg/Kg	Analyst: <b>LGT</b> 5 3/8/2016 10:04:15 PM 24147
1603189-007			Collection Da	te: 2/29/2016 1:30:00 PM
S-088210-19-022916-	-SP-07		Matr	rix: SOIL
	Result	PQL Qual	Units	DF Date Analyzed Batch ID
0: ANIONS				Analyst: LGT
	350	30	mg/Kg	20 3/8/2016 10:41:29 PM 24147
1603189-008			Collection Da	te: 2/29/2016 1:40:00 PM
S-088210-19-022916-	-SP-08		Matr	rix: SOIL
	Result	PQL Qual	Units	DF Date Analyzed Batch ID
0: ANIONS				Analyst: LGT
	HD nort Fuse Fed #1 1603189-006 S-088210-19-022916 0: ANIONS 1603189-007 S-088210-19-022916 0: ANIONS 1603189-008 S-088210-19-022916	HD nort Fuse Fed #1 1603189-006 S-088210-19-022916-SP-06 <b>Result</b> 0: ANIONS ND 1603189-007 S-088210-19-022916-SP-07 <b>Result</b> 0: ANIONS 350 1603189-008 S-088210-19-022916-SP-08 <b>Result</b>	nort Fuse Fed #1 1603189-006 S-088210-19-022916-SP-06 Result PQL Qual 0: ANIONS ND 7.5 1603189-007 S-088210-19-022916-SP-07 Result PQL Qual 0: ANIONS 350 30 1603189-008 S-088210-19-022916-SP-08 Result PQL Qual	HD nort Fuse Fed #1 1603189-006 Collection Da S-088210-19-022916-SP-06 Mata Result PQL Qual Units 0: ANIONS ND 7.5 mg/Kg 1603189-007 Collection Da S-088210-19-022916-SP-07 Mata Result PQL Qual Units 0: ANIONS 350 30 mg/Kg 1603189-008 Collection Da S-088210-19-022916-SP-08 Mata Result PQL Qual Units

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
- Н
- 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
- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- J Analyte detected below quantitation limits Page 2 of 3
- Р 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: Project:	GHD Short Fu	se Fed #1									
Sample ID	MB-24147	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	PBS	Batch	n ID: <b>24</b>	147	R	RunNo: 3	2667				
Prep Date:	3/8/2016	Analysis D	Date: 3	/8/2016	S	SeqNo: 9	99625	Units: <b>mg/k</b>	(g		
Analyte Chloride		Result ND	PQL 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID	LCS-24147	SampT	ype: LC	s	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	LCSS	Batch	n ID: <b>24</b>	147	R	RunNo: 3	2667				
Prep Date:	3/8/2016	Analysis D	)ate: 3/	/8/2016	S	SeqNo: 9	99626	Units: <b>mg/K</b>	(g		
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	SampT	ype: M	S	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	S-088210-19-0229	916 Batch	n ID: <b>24</b>	147	R	RunNo: 3	2667				
Prep Date:	3/8/2016	Analysis D	Date: 3	/8/2016	S	SeqNo: 9	99628	Units: mg/K	(g		
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	131			
Sample ID	1603189-001AMS	D SampT	ype: M	SD	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	S-088210-19-0229	916 Batch	n ID: <b>24</b>	147	R	RunNo: 3	2667				
Prep Date:	3/8/2016	Analysis D	Date: 3/	/8/2016	S	SeqNo: 9	99629	Units: <b>mg/k</b>	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

#### **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 3 of 3

Received by/date: $MQ$ $030310$ Loggod By: Ashley Gallegos $3/3/2016 9:50:00 \text{ AM}$ Completed By: Ashley Gallegos $3/3/2016 1:46:30 \text{ PM}$ Reviewed By: $TO$ $0303/16$	Client Name: GHD	Website: www.h	allenvironmental	com	ReptNo: 1	
Loggod By: Ashley Gallegos 3/3/2016 9:50:00 AM Completed By: Ashley Gallegos 3/3/2016 1:46:30 PM Revewed By: TO C3 03 / 1/6 Chain of Custody 1. Custody seals intact on sample bottles? Yes No No Not Present V 1. Custody seals intact on sample bottles? Yes No No Not Present V 2. Is Chain of Custody complete? Yes No No Not Present V 3. How was the semple delivered? Contribut 4. Was an attempt made to Cool the samples" Yes No No NA Present 5. Were all samples received at a temperature of >0° C to 6.0°C 6. Sample(s) in proper container(s)? Yes No No NA 8. Are samples (accept VOA and CNG) property presarved? Yes No No No VOA Vials V 11. Were any sample containers received broken? Yes No No VOA Vials V 12. Doos paperwork match bottle labels? Yes No No No VOA Vials V 13. Are matches containers received broken? Yes No A Adjusted? 14. Is the an what analyses were requested? Yes No A Adjusted? 15. Were any sample containers received? Yes No A Adjusted? 14. Is the an what analyses were requested? Yes No A Adjusted? 15. Was client notified of all discrepancies with this order? Yes No A Adjusted? 16. Was client notified of all discrepancies with this order? Yes No A Adjusted? 17. Sufficial mean sate to be men? 18. Was client notified of all discrepancies with this order? Yes No A Adjusted? 19. Was client notified of all discrepancies with this order? Yes No A Adjusted? 16. Was client notified of all discrepancies with this order? Yes No A Adjusted? 17. Were all handling (if applicable) 18. Was client notified of all discrepancies with this order? Yes No A Adjusted? 19. Whom: Regarding: Via: eMail Phone Pax In Person	Client Name: GHD	02/03	110			
Completed By: Antion Gallegos 3/3/2016 1:46:30 PM Completed By: Action Gallegos 3/3/2016 1:46:30 PM Completed By: TO C3 03 / 1 G Chain of Custody 1. Custody seals intact on sample bottles? Yes No No Not Present  2. Is Chain of Custody completo? Yes No No Not Present  3. How was the semple delivered? Countier Cog In 4. Was an attempt made to cool the samples* Yes No No NA Present 5. Were all samples received at a temperature of >0° C to 6.0°C 7. Sufficient sample volume for indicated test(s)? Yes No No NA 5. Were all samples received at a temperature of >0° C to 6.0°C 7. Sufficient sample volume for indicated test(s)? Yes No No NA 6. Sample(s) in proper container(s)? Yes No No NA 7. Sufficient sample volume for indicated test(s)? Yes No No No VOA Vials  7. Sufficient sample container(s)? Yes No No No VOA Vials  7. Sufficient sample containers received broken? Yes No No No VOA Vials  7. Sufficient sample containers received broken? Yes No Action 10. VOA vials have zero headspace? Yes No Action 11. Were any sample containers received broken? Yes No Action 12. Doos paperverking added to Chain of Custody? Yes No Action 13. Are matrices correctly identified on Chain of Custody? Yes No Action 14. Is the avriat analyses were requested? Yes No Action 15. Were all holding times able to be men? Yes No Action 15. Was client notified of all discrepancies with this order? Yes No Action 16. Was client notified of all discrepancies with this order? Yes No Action 17. Were in Notified: Date Via: Other Pax In Person 18. Was client notified of all discrepancies with this order? Yes No Action 19. Whom: Regarding: Via: Other Pax In Person 19. Was client notified of all discrepancies with this order? Yes No Action 19. Whom: Regarding: Via: Other Pax In Person 19. Was client notified of all discrepancies with this order? Yes No Action 19. Whom: Regarding: No Action 10. Yes Action 10. No I No Ma Yes 11. Were all holding all discrepancies with this order? Yes No Action 10. Yes	Received by/date:	00000	14	1		
Revewed By:	Loggod By: Ashley Gallegos	3/3/2016 9:50:00 AM		24J		
Chain of Custody         1. Custody seals intact on sample bottles?       Yes         1. Subtody seals intact on sample bottles?       Yes         2. Is Chain of Custody complete?       No         3. How was the sample delivered?       Courtier         Log In       Courtier         4. Was an attempt made to cool the samples*       Yes         5. Were all samples received at a temperature of >0° C to 6.0°C       Yes         6. Sample(s) in proper container(s)?       Yes         7. Sufficient sample volume for indicated test(s)?       Yes         8. Arc samples (accept VOA and DNG) property preserved?       Yes         9. Was preservative added to bottles?       Yes         10. VOA vials have zero headspace?       Yes         11. Were any sample containers received broken?       Yes         12. Doos paperwork match hottle labels?       Yes         (Note discrepancies on chain of custody?       Yes         13. Are matrices correctly identified on Chain of Gustody?       Yes         14. Is it clear with analyses were requested?       Yes         15. Ware at hotting times able to be met?       Yes         (trop, notific di at discrepancies with this order?       Yes         Yes       No       NA         13. Are matrices able to be met?       Yes	Completed By: Ashley Gallegos	3/3/2016 1:46:30 PM		AJ		
1. Custody seals intact on sample bottles?       Yes       No       Not Present V         2. Is Chain of Custody complete?       Yes       No       Not Present V         3. How was the semple delivered?       Courtier         4. Was an attempt made to cool the samples*       Yes       No       NA         5. Were all samples received at a temperature of >0° C to 6.0°C       Yes       No       NA         6. Sample(s) in proper container(s)?       Yes       No       NA         7. Sufficient sample volume for indicated tesl(s)?       Yes       No       NA         8. Are samples (accept VOA and DNG) property presarved?       Yes       No       NA         9. Was preservative added to bottles?       Yes       No       No VOA Vials         10. VOA vials have zero headspace?       Yes       No       No VOA Vials         11. Were any sample containers received broken?       Yes       No       Adjusted?         12. Doos papervok match bottle labels?       Yes       No       Adjusted?         13. Are matrices correctly identified on Chain of Custody?       Yes       No       Adjusted?         14. Is it clear vitat analyses were requested?       Yes       No       Adjusted?         14. Is it clear vitat analyses were requested?       Yes       No       Chec	Reviewed By: IO	03 03/16				
1. Custody seals intact on sample objects?       Yes       No       Not Present         2. Is Chain of Custody complete?       Yes       No       Not Present         3. How was the semple delivered?       Counter         Log In        Counter         4. Was an attempt made to cool the samples"       Yes       No       NA         5. Were all samples received at a temperature of >0° C to 6.0°C       Yes       No       NA         6. Sample(s) in proper container(s)?       Yes       No       NA         7. Sufficient sample volume for indicated test(s)?       Yes       No       NA         8. Arc samples (accept VOA and CNG) property presarved?       Yes       No       NA         9. Was preservative added to bottles?       Yes       No       No       NA         10. VOA vials have zero headspace?       Yes       No       No       Ma         11. Were any sample containers received broken?       Yes       No       Adjusted?         12. Doos papervok match hotte lateis?       Yes       No       Adjusted?         13. Are matrices correctly identified on Chain of Custody?       Yes       No       Adjusted?         14. Is it disar vital analyses were requested?       Yes       No       Checked by:         14. wite d	Chain of Custody			1.00		
2. Is Chain of Custody complete?       Courtier         3. How was the sample delivered?       Courtier         Log In       .         4. Was an attempt made to cool the samples"       Yes ♥         5. Were all samples received at a temperature of >0° C to 6.0°C       Yes ♥         6. Sample(s) in proper container(s)?       Yes ♥       No         7. Sufficient sample volume for indicated lest(s)?       Yes ♥       No         8. Arc samples (accept VOA and DNG) property preserved?       Yes ♥       No         9. Was preservative added to bottles?       Yes ♥       No       NA         10. VOA vials have zerc headspace?       Yes ♥       No       No       Wa         11. Were any sample containers received broken?       Yes ♥       No       Mo       Adjusted?         12. Doos paperwork match bottle labels?       Yes ♥       No       Adjusted?       (<2 or >12 unless note for pH times and to be me?         13. Are matrices correctly identified on Chain of Custody?       Yes ♥       No       Adjusted?         14. Is it dear what analyses were requested?       Yes ♥       No       Checked by:         14. Is it dear what analyses were requested?       Yes ♥       No       Checked by:         15. Were ail holding times able to be me?       Yes ♥       No       Checked by	1. Custody seals intact on sample bottles?					
I. org. In:       No       Na       Na         4. Was an attempt made to cool the samples**       Yes V       No       NA         5. Were all samples received at a temperature of >0° C to 6.0°C       Yes V       No       NA         6. Sample(6) in proper container(6)?       Yes V       No       NA         7. Sufficient sample volume for indicated les((s)?       Yes V       No       NA         8. Are samples (accept VOA and DIG) property preserved?       Yes V       No       NA         9. Was preservative added to bottles?       Yes V       No       NA         10. VOA vials have zero headspace?       Yes V       No       No VOA Vials V         11. Were any sample containers received broken?       Yes V       No       Mo VOA Vials V         12. Doos paperwork match bottle labels?       Yes V       No       Mo VOA Vials V         13. Are matrices correctly identified on Chain of Custody?       Yes V       No       Adjusted?         14. Is it clear what analyses were requested?       Yes V       No       Checked by:       Checked by:         15. Were all holding times able to be met?       Yes V       No       No V       Na V         16. Was client notified of all discrepancies with this order?       Yes No       Na V       Na V         Pe	2. Is Chain of Custody complete?		Yes 🖌	No 🗋	Not Present	
4. Was an attempt made to cool the samples"       Yes       No       NA         5. Were all samples received at a temperature of >0° C to 6.0°C       Yes       No       NA         6. Sample(s) in proper container(s)?       Yes       No       NA         7. Sufficient sample volume for indicated tesi(s)?       Yes       No       NA         8. Are samples (except VOA and DNG) property preserved?       Yes       No       NA         9. Was preservative added to bottles?       Yes       No       NA         10. VOA vials have zero headspace?       Yes       No       No       No         11. Were any sample containers received broken?       Yes       No       No       Was         12. Doos paperwork match bottle labels?       Yes       No       Adjusted?         13. Are matrices correctly identified on Chain of Custody?       Yes       No       Adjusted?         14. Is it dear with an analyses were requested?       Yes       No       Adjusted?         14. Was client notified of all discrepancies with this order?       Yes       No       NA         15. Was client notified of all discrepancies with this order?       Yes       No       NA       Ma         15. Was client notified of all discrepancies with this order?       Yes       No       NA       Ma <td>3. How was the sample delivered?</td> <td></td> <td>Courier</td> <td></td> <td></td> <td></td>	3. How was the sample delivered?		Courier			
4. Was an attempt made to cold the samples   5. Were all samples received at a temperature of >0° C to 6.0°C   7. Sufficient sample volume for indicated test(s)?   8. Are samples (except VOA and DNG) property preserved?   9. Was preservative added to bottles?   9. Was preservative added to bottles?   10. VOA vials have zero headspace?   11. Were any sample containers received broken?   12. Doos paperwork match hotte tabels?   13. Are matrices correctly identified on Clast of Custody?   14. Is it clear what analyses were requested?   15. Were all holding (if applicable)   16. Was client notified of all discrepancies with this order?   Yes   No   No   16. Was client notified:   17. Sufficient samples   18. Was client notified:   19. Work all holding (if applicable)	Log In			0.00		
5. Write all samples hecardo at a temperatule of the original	4. Was an attempt made to cool the sample	as"	Yes 🔽	No	NA	
6. Sample(s) in proper container(s)?       Yes       No.         7. Sufficient sample volume for indicated lesl(s)?       Yes       No.         8. Are samples (except VOA and DNG) property presarved?       Yes       No.         9. Was preservative added to bottles?       Yes       No.         10. VOA vials have zero headspace?       Yes       No.         11. Were any sample containers received broken?       Yes       No.         12. Doos paperwork match bottle labels?       Yes       No.         (Note discrepancies on chain of custody)       Yes       No.         13. Are matrices correctly identified on Chain of Custody?       Yes       No.         15. Were all holding times able to be met?       Yes       No.       Checked by:         16. Was client notified of all discrepancies with this order?       Yes       No.       NA.         16. Was client notified of all discrepancies with this order?       Yes       No.       NA.         17. Sufficient field of all discrepancies with this order?       Yes       No.       NA.         17. Note discrepancies with this order?       Yes       No.       Checked by:         18. Was client notified of all discrepancies with this order?       Yes       No.       NA.         18. Whom:       Date       In Person       I	5. Were all samples received at a temperat	ure of >0° C to 6.0°C	Yes 🗸	No.	NA 🗔	
7. Sufficient sample volume for indicated lest(s)?       Yes       No         8. Are samples (except VOA and DNG) property preserved?       Yes       No         9. Was preservative added to bottles?       Yes       No       NA         10. VOA vials have zero headspace?       Yes       No       No VOA Vials         11. Were any sample containers received broken?       Yes       No       No VOA Vials         12. Doos paperwork match bottle labels?       Yes       No       # of preserved bottles checkeo         12. Doos paperwork match bottle labels?       Yes       No       # of preserved bottles checkeo         13. Are matrices correctly identified on Chain of Custody?       Yes       No       Adjusted?         14. Is it clear what analyses were requested?       Yes       No       Checked by:         15. Were all holding times able to be met?       Yes       No       No         (If no, notify customer for authorization )       Date			Yes 🔽	No		
1. Submediation and pipe reserved?       Yes       No         8. Are samples (except VOA and DNG) property preserved?       Yes       No       NA         9. Was preservative added to bottles?       Yes       No       NA       Image: State of the state of th						
9. Was preservative added to bottles?       Yes       No       NA         10. VOA vials have zero headspace?       Yes       No       No VOA Vials         11. Were any sample containers received broken?       Yes       No       No VOA Vials         12. Doos paperwork match bottle labels?       Yes       No       # of preserved bottles checkeo         12. Doos paperwork match bottle labels?       Yes       No       # of preserved bottles checkeo         13. Are matrices correctly identified on Chain of Custody?       Yes       No       Adjusted?         14. Is it clear what analyses were requested?       Yes       No       Checked by:         15. Were all holding times able to be met?       Yes       No       Checked by:         16. Was client notified of all discrepancies with this order?       Yes       No       NA         Person Notified:       Date       Date       By Whom:       Date         By Whom:       Via:       eMail       Phone       Fax       In Person				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
9. Was preservative added to bottles?       Yes       No       No ∨OA Vials ♥         10. VOA vials have zero headspace?       Yes       No       No ∨OA Vials ♥         11. Were any sample containers received broken?       Yes       No ♥       # of preserved bottles checked         12. Doos paperwork match bottle labels?       Yes       No ♥       # of preserved bottles checked         12. Doos paperwork match bottle labels?       Yes       No ♥       # of preserved bottles checked         13. Are matrices correctly identified on Chain of Custody?       Yes       No ♥       Adjusted?         14. Is it clear what analyses were requested?       Yes       No ♥       Adjusted?         15. Were all holding times able to be met?       Yes       No ♥       Checked by:         16. Was client notified of all discrepancies with this order?       Yes       No ♥       NA ♥         Person Notified:       Date	8. Are samples (except VOA and ONG) pro	perly preserved?	Yes 🗹		(MA) [7]	
10. VOA vials have zero headspace?       ross         11. Were any sample containers received broken?       Yes         12. Doos paperwork match bottle labels?       Yes         (Note discrepancies on chain of custody)       Yes         13. Are matrices correctly identified on Chain of Custody?       Yes         14. Is it clear what analyses were requested?       Yes         15. Were all holding times able to be met?       Yes         (If no, notify customer for authorization.)       Yes         Special Handling (if applicable)       No         16. Was client notified of all discrepancies with this order?       Yes         Ves       No         No       No         Person Notified:       Date         By Whom:       Via:       eMail       Phone         Regarding:       Nia:       In Person	9. Was preservative added to bottles?		Yes	No M	NPS 1	
11. Were any sample containers received broken?       Yes       No       # of preserved bottles chieckeo         12. Doos paperwork match bottle labels?       Yes       No       # of preserved bottles chieckeo         12. Doos paperwork match bottle labels?       Yes       No       # of preserved bottles chieckeo         13. Are matrices correctly identified on Chain of Custody?       Yes       No       Adjusted?         14. Is it clear what analyses were requested?       Yes       No       Checked by:         15. Were all holding times able to be met?       Yes       No       Checked by:         16. Was client notified of all discrepancies with this order?       Yes       No       NA         Person Notified:	10.VOA vials have zero headspace?		Yes	No	No VOA Vials 🗹	
12. Doos paperwork match bottle labels?       Yes       No       for pH:         (Note discrepancies on chain of custody)       13. Are matrices correctly identified on Chain of Custody?       Yes       No       Adjusted?         13. Are matrices correctly identified on Chain of Custody?       Yes       No       Adjusted?         14. Is it clear what analyses were requested?       Yes       No       Checked by:         15. Were all holding times able to be met?       Yes       No       Checked by:         (If no, notify customer for authorization.)       Yes       No       NA         Special Handling (if applicable)       16. Was client notified of all discrepancies with this order?       Yes       No       NA         Person Notified:		roken?	Yes 🗌	No 🔽		
(Note discrepancies on chain of custody)       Yes       No       Adjusted?         13. Are matrices correctly identified on Chain of Custody?       Yes       No       Adjusted?         14. Is it clear what analyses were requested?       Yes       No       Checked by:         15. Were all holding times able to be met? (If no, notify customer for authorization.)       Yes       No       Checked by:         16. Was client notified of all discrepancies with this order?       Yes       No       NA       ✓         Person Notified:       Date       Date	12 Does paperwork match bottle labels?		Yes 🖌	No 🗌	for pH:	- tale adde
13. Are matrices correctly identified on Chain of Custody?       Yes       No       Image: Checked by:         14. Is it clear what analyses were requested?       Yes       No       Checked by:         15. Were all holding times able to be met? (If no, notify customer for authorization.)       Yes       No       Checked by:         Special Handling (if applicable)       Yes       Yes       No       Checked by:         16. Was client notified of all discrepancies with this order?       Yes       No       NA         Person Notified:       Date       Date       Implicable         By Whom:       Via:       eMail       Phone       Fax       Implicable	(Note discrepancies on chain of custody			11. T		nulesa notor
14. Is it clear what analyses were requested.       15. Were all holding times able to be met? (If no, notify customer for authorization.)       Special Handling (if applicable)       16. Was client notified of all discrepancies with this order?       Yes       No       Person Notified:       Date       By Whom:       Regarding:						
15. Were an notified time, notify customer for authorization.)         Special Handling (if applicable)         16. Was client notified of all discrepancies with this order?         Yes       No         No       NA         Person Notified:       Date         By Whom:       Via:       eMail       Phone       Fax       In Person         Regarding:		2			Checked by:	
16. Was client notified of all discrepancies with this order? Yes No No NA V Person Notified: Date Date Date Regarding: Via: eMail Phone Fax In Person	<ol> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ol>					
16 Was client notified:     Date       Person Notified:     Date       By Whom:     Via:       Regarding:     In Person	Special Handling (if applicable)					
By Whom: Via: eMail Phone Fax In Person Regarding:	16. Was client notified of all discrepancies v	with this order?	Yes	Ng 🗔	NA	
Regarding:	Person Notified:	Date				
	By Whom:	Via:	eMail	Phone Fax	In Person	
Client Instructions:	Regarding.					
	Client Instructions:					

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		5-884-			-			(				A	nary		Req	ues					<b></b>
	Package:		.Bockisch@ghd.com	Project Mana	iger: Gernal	rd Bockisch	21)	only)	DRO / MRO)					SO4	<u>_</u> 0			5			
	Package: ndard		Level 4 (Full Validation)		2	co 0-72	(80	(Gas i	10			SIMS)		0 <sub>4</sub> ,	CB						
	litation			Sampler:	Steve P	<u>60-0572</u> ereZ	TMB's (8021)	) Н	DR			IS O		О <sub>2</sub> ,Р	82 1			200			
NEL		🗆 Othe	er	On Ice:	JIEVE			+ TPH	ò	418.1)	1.1	8270		<sup>3,</sup> N(	/ 80		7				2 Z
EDE	D (Type)			Sample Tem	perature:	2.4-1.0=1.4°C	Ш	BE	(GRO	d 41	d 5(	o C	tals	I,NC	des		107	-9			≻
ate	Time Matrix Sample Request I			Container Type and #	Preservative Type		BTEX + MTBE	BTEX + MTBE	TPH 8015B	TPH (Method	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chlori			Air Bubbles (Y or N)
1-16	1155	Soil	5-088210-19-022916-58-01	Hozdass-1 Ice -001							_		_			~		4			
	1220	ſ	5-088210-19-022916-58-02	1	1	-002												V			+
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	1300		S-088210-19-022916-5P-04			-004												r			
	1310		5-088210-19-022916-8-05			-005															
	1320		5-088210-19-022916-SP-06			-004												Y			
	1330		F-088210-19-022916-5P-0-7			- 001												Y			
$\overline{\mathcal{V}}$	1340		5-088210-19-022916-5P-08	V	$\nabla$	-108					_							X			
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e:	Time: <b>0820</b> Time:	Relinquish	ed by:	Received by: Réceived by:	N/A	Date Time 3/2/16 08-3 Date Time 03/03/16 0.950	Ren	nark	5:							<u> </u>				-	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredite data report.



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

June 01, 2016

Bernie Bockish 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 <u>www.hallenvironmental.com</u> 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,

andis

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Lab Order: 1605B43

Hall Enviro	nmental Analysi	s Laborat	ory, Inc.		Date Reported	1: 6/1/2016
CLIENT: Project:	GHD Short Fuse Fed 1				Lab Order:	1605B43
Lab ID: Client Sample II	1605B43-001 <b>D:</b> S-088210-19-052016	5 SP 01			Date: 5/20/2016 12:	32:00 PM
Analyses	<b>5.</b> 5-086210-19-052010	Result	PQL Qual		DF Date Anal	lyzed Batch ID
EPA METHOD 3 Chloride	00.0: ANIONS	340	30	mg/Kg	20 6/1/2016 12	Analyst: <b>LGT</b> 2:45:41 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: GH Project: Sho	D rt Fuse Fed 1			
Sample ID MB-25584	SampType: mblk	TestCode: EPA Metho	d 300.0: Anions	
Client ID: PBS	Batch ID: 25584	RunNo: 34591		
Prep Date: 5/31/2016	Analysis Date: 5/31/2016	SeqNo: 1066763	Units: <b>mg/Kg</b>	
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLimi	t HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-25584	SampType: Ics	TestCode: EPA Metho	d 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 va	ue SPK Ref Val %REC LowLimi	t HighLimit %RPD	RPDLimit Qual
Chloride	14 1.5 15	00 0 92.6 90	) 110	

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р 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
- 64	ANALYSIS
	LABORATORY

-

Hall Environmental Analysis Laboratory 1901 Hawkins NE Albuquerque, NIA 87109 TEL: 505-345-3975 FAX: 303-345-4107 Website: www.kallenvironmental.com

# Sample Log-In Check List

Clie	ent Name.	GHD		Work	Order Number.	1605	B43			ReptNo:	4
Rec	eived by/date	1	1	05/2	1/10		-		-		
Log	jed By:	Lindsay M	langin	5/24/20	6 9:40:00 AM			dy	Higo		
Con	pleted By	Lindsay M	langin	5/25/20	6 9:58:49 AM			Auty	Hap		
Rev	iewed By:	TO		05	25/16			0.0	0		
Cha	in of Cust	ody			1						
1.	Custody seals	s intact on sa	ample bottles	7		Yes	Ð	No	0	Not Present 🖌	
2.	Is Chain of Cu	ustody comp	viete?			Yes	4	No		Not Present	
3.	How was the	sample deliv	vered?			Coll	riër				
Log	<u>a In</u>										
4.	Was an atten	npl made to	cool the sam	ples?		Yes	~	No	P	NA 🗔	
5.	Were al sam	ples receive	d at a temper	ature of >0° C	to 6.0*C	Yes		No	Ð	NA	
6.	Sample(s) in	proper conta	ainer(s)?			Yes	V	No			
7.1	Sufficient sam	ple volume	for indicated I	test(s)?		Yes	V	No	11		
8.	Are samples (	except VOA	and ONG) pr	roperly preserv	red?	Yes	V	No			
9. \	Nas preserva	tive added t	o bottles?			Yes		No	V	NA 🛄	
10.	/OA vials hav	e zero head	space?			Yes	D	No	П.	No VOA Viais 🗸	
11.	Were any sar	nple contain	iers received	broken?		Yes		No	~	distant and	
	3						-		-	# of preserved bottles checked	
	Does paperwo Note discrep:			()		Yes	×	Na	ш.	tor pH: (<2 c	r >12 unless noted
		Contraction of the second s		in of Custody?		Yes	V	No	D	Adjusted?	2
14.1	s it clear what	t analyses w	vore requester	17		Yes	~	No			
	Were all holdi If no, notify c			)		Yes		Na	0	Checked by	
Spe	cial Handli	ng (if app	olicable)								
16.1	Was client not	ified of all d	iscrepancies (	with this order	2	Yes		No	Ο.	NA 🗹	
	Person	Notified.			Date		-		-		
	By Who				Via:	eMa	ail 📋	Phone	Fax	🗌 In Person	
	Regardi										
17		structions:				_					
	Additional ren										
18.	Cooler Infor		Condition	Seal Intact	Cool Mr.	and D	to I	Circle 1			
	Louier NO	2.6	Good	Yes	Dea No 5	Seal Da	ate	Signed E	y		

Chain-of-Custody Record				Turn-Around Time:						_									 	
				Standard	□ Rush			5.23												
ailing	Address	6171	Inclian School Bol NE	- North	rt tuse	T-D-HI						v.hal						-		
				Project #:	rt tuse	- rea #1	4							-	-			7109		
ione i	0, <u>8100</u> #: 50	<u>4001400</u> 5-884	NM, 87110 -0672_	085	210/19		Tel. 505-345-3975 Fax 505-345-4107 Analysis Request													
<u>nail o</u>		Bernard.	Bockisch Bghd.com		iger: 8 Bockisc	h	021)	s only)	/ MRO)					,SO4)	B's			0		
Stan	-		Level 4 (Full Validation)	_	-280-05		s (8(	(Ga:	DRO /			SIMS)		PO	PC					
credi: NEL	itation AP	Othe	er	Sampler: S	teve Pere	Z □ No	+ TMB's (8021)	+ TPH (Gas	1	418.1)	04.1)	8270 5		03,NO2	\$ / 8082		(A	20		or N)
EDD	(Type)	T	;	Sample Tem	perature:3.	6-1. OCF= 2.6		MTBE	(GRO	od 4	od 5	0 or	etals	) X	cides	Â		20		Σ
)ate	L take			Container Type and #	Preservative Type	HEAL NO. ,	BTEX + MTBE	BTEX + MT	TPH 8015B	TPH (Method	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride		Air Bubbles (Y or N)
olit	1255						-										3	¥.		
-16	1232	50;1	S-088210-19.05206-5P-0	1 \$02.4/455-1	ICE	-001												X		
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te: <u>3/16</u>	Time:	Relinguish	en Alia	Received by:	/	Date Time	Rer	nark	5:											ļ
le: //6	Time:	Relinquish	ed by	lut o	Date Time 5/24/16 ()94()															

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. 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: <u>www.hallenvironmental.com</u>

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 <u>www.hallenvironmental.com</u> 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,

andis

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Anal	vsis Laborat	torv. Inc.			Lab Order <b>1606A47</b> Date Reported: <b>6/22/20</b>	)16
CLIENT: GHD	<u>,</u>		Client Samp	le ID: S-(	088210-19-061616-SI	
<b>Project:</b> Short Fuse Fed 1			Collection 1	<b>Date:</b> 6/1	16/2016 1:10:00 PM	
Lab ID: 1606A47-001	Matrix:	SOIL	Received	<b>Date:</b> 6/1	17/2016 9:40:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	500	30	mg/Kg	20	6/22/2016 6:11:48 AM	25980

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В
	D	Sample Diluted Due to Matrix	Е
	Н	Holding times for preparation or analysis exceeded	J
	ND	Not Detected at the Reporting Limit	Р
	R	RPD outside accepted recovery limits	RL

- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 2

**Analytical Report** 

- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified W

GHD

Project: Short I	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:**

**Client:** 

- \* 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

#### D.

Page 2 of 2

#### HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Client Name:	GHD	Work Order Number:	1606A	47		RcptNo:	1
Received by/dat	te: A	ochithic			, , <i>, , , , , , , , , , , , , , , , , </i>		
Logged By:	Lindsay Mangin	6/17/2016 9:40:00 AM			Joneby Hlopp		
Completed By:	Lindsay Mangin	6/20/2016 5:52:36 AM			Junely Hlogod		
Reviewed By:	70	06/20/16			6		
Chain of Cus	stody	, ,					
1. Custody sea	als intact on sample bottle	es?	Yes	[-]	No	Not Present 裙	
2. Is Chain of (	Custody complete?		Yes		No	Not Present	
3. How was the	e sample delivered?		<u>Cour</u>	ier			
<u>Log In</u>							
4. Was an atte	empt made to cool the sa	mples?	Yes		No	NA []]	
5. Were all sa	mples received at a temp	erature of >0° C to 6.0°C	Yes		<b>No</b> [7]	NA	
6. Sample(s) i	in proper container(s)?		Yes		No		
7. Sufficient sa	ample volume for indicate	d test(s)?	Yes		No 🛄		
8. Are sample	s (except VOA and ONG)	properly preserved?	Yes		No []]		
9. Was preser	vative added to bottles?		Yes		No 🛃	NA []	
10.VOA vials h	nave zero headspace?		Yes		No	No VOA Vials	
11 Were any s	sample containers receive	d broken?	Yes	[ ]	No 🛃	# of preserved bottles checked	
	work match bottle labels? epancies on chain of custo		Yes		No	for pH:	or >12 unless noted)
	es correctly identified on C		Yes		No [_]	Adjusted?	
14. Is it clear w	hat analyses were reques	sted?	Yes		No		
	Iding times able to be me y customer for authorization		Yes		<b>No</b> []]	Checked by:	
Special Hand	dling (if applicable)						
16.Was client i	notified of all discrepancie	es with this order?	Yes	]	No []	NA 🔛	
Perso	on Notified:	Date:	<u></u>		annaan ar		
By W	/hom:	Via:	eM	ail []	Phone []] Fax	[] In Person	
Rega	rding:			····			
Client	t Instructions:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				<u></u>	
17. Additional	remarks:						
18. <u>Cooler Inf</u> Cooler N		on   Seal Intact   Seal No	Seal D	ate	Signed By	l	

2.3

Good

Yes

1

С	hain	-of-Cu	ustody Record	Turn-Around	Time:					E.J			c		те	<b>.</b>	<b></b>	ЛЕ	віт	AL	
ient:	GA	D-AI	Suguerque		l 🗆 Rush															DR'	
		<u> </u>	- Jucido C	Project Nam	e:																1
ailing	Address	5: 612	Indian School Bd NE	Short	fuse fei	1+1		490	01 H	awkii		/.hall IE -						'109			
to	200 0	1545,000	que Nm 87110	Project #:						5-34				-	-		-410				
none	#: E	5-8	84-0672	- <b>N8</b> X7	10/19											uesi					
			. By clisch Oghd. com					<u>&gt;</u>	Ô		ľ			(4)							
	Package:		J	Project Mana Bernard	Bodlisch		021)	lo s	R					so,	B's						
	ndard		Level 4 (Full Validation)		-280-051	2_	s (8	(Ga;	DRO / MRO)			SIMS)		PO	РС			0			
ccred	itation				four Pore		TMB's (8021)	TPH (Gas only)	Ы	Ē	Ę	20 2		1O <sub>2</sub> ,	082			0.1			Ŧ
NEL	AP	🗆 Othe	er	On Ice:	X Yes	🗆 No	+ +	+	(GRO	8	504.1)	8270		O <sub>3</sub> ,Ւ	s / 8		(A)	30			or N
EDD	(Type)	-		Sample Tem	perature: Z.	3	BE BE	ШШ	Ū	pd 4	5 po	0 or	stals	З, N	side	A)	-VC	<u>ب</u>			Σ
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1606A47	BTEX + MTBE	BTEX + MTBE	TPH 8015B	TPH (Method 418.1)	EDB (Method	PAH's (8310	RCRA 8 Metals	Anions (F,Cl,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride			Air Bubbles (Y or N)
tit	1310	Soil	5-088210-19-061616-58-01	402 class-1	TOF	-001					_		_					$\overline{\mathbf{X}}$		-	
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110	1400	12/19		the.	(m) 06	117/16 0790			1-	- 1	. ~	л. 	$\sim$	T	_	$\leq$					
ie j	r necessary,	, samples of	mitted to Hall Environmental may be sub	contracted to other a	ccredited laboratorie	es. This serves as notice of this	s possit	oility. A	Any su	ib-contr	racted	l data v	will be	clear	ly nota	neg øt	the a	nalytica	il repor	t.	

# 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,

Huns hoah

Kelsey Brooks Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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



# Sample Cross Reference 532696



## GHD Services, INC- Midland, Midland, TX

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



## CASE NARRATIVE



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

 Project ID:
 088210-19

 Work Order Number(s):
 532696

Report Date:11-JUL-16Date Received:06/30/2016

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



# **Certificate of Analytical Results 532696**



### GHD Services, INC- Midland, Midland, TX

Sample Id: Lab Sample Id	<b>S-088210-19-062916-</b> 1: 532696-001	JPS-GHD1 30-31'		Soil cted: 06.29.16 16.08		Date Received: Sample Depth:		9
Analytical Me	ethod: Inorganic Anions	by EPA 300/300.1			]	Prep Method:	E300P	
Tech:	MNR					% Moisture:	6.44	
Analyst:	MNR		Date Prep:	07.07.16 18.30	]	Basis:	Dry Weight	
Seq Number:	997751							
Parameter		Cas Number	Result	RL	Units	Analysis Dat	te Flag	Dil
Chloride		16887-00-6	32.4	10.7	mg/kg	07.07.16 23.5	52	1



# **Certificate of Analytical Results 532696**



## GHD Services, INC- Midland, Midland, TX

Sample Id: Lab Sample Id	<b>S-088210-19-062916-</b> 1: 532696-002	JPS-GHD1 35-36'		Soil cted: 06.29.16 16.16		Date Received Sample Depth		9
Analytical Me	ethod: Inorganic Anions	by EPA 300/300.1				Prep Method:	E300P	
Tech:	MNR					% Moisture:	4.64	
Analyst:	MNR		Date Prep:	07.07.16 18.30		Basis:	Dry Weight	
Seq Number:	997751							
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil
Chloride		16887-00-6	30.6	10.5	mg/kg	07.07.16 23.	59	1



# **Certificate of Analytical Results 532696**



## GHD Services, INC- Midland, Midland, TX

Sample Id: Lab Sample Id	<b>S-088210-19-062916-</b> 1: 532696-003	JPS-GHD1 40-41'	Matrix: Date Collec	Soil cted: 06.29.16 16.25		Date Received Sample Depth		5.19
Analytical Me	ethod: Inorganic Anions	by EPA 300/300.1				Prep Method:	E300P	
Tech:	MNR					% Moisture:	7.27	
Analyst:	MNR		Date Prep:	07.07.16 18.30		Basis:	Dry Weight	:
Seq Number:	997751							
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil
Chloride		16887-00-6	58.7	10.8	mg/kg	07.08.16 00.	.07	1



Percent Moisture

QC Summary 532696



### **GHD Services, INC- Midland**

Short Fuse-Federal #1

				5110	It I use-I v		71					
Seq Number:	Inorganic Anions b 997751	y EPA 300		Matrix:		DVG			ep Meth Date Pr	ep: 07.0	7.16	
MB Sample Id:	710742-1-BLK	<i>a</i> <b>n</b>		-	710742-1-				-		742-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	236	94	247	99	90-110	5	20	mg/kg	07.07.16 22:26	
-	Inorganic Anions b	y EPA 300	/300.1					Pı	ep Meth	od: E30	0P	
Seq Number:	997751			Matrix:					Date Pr	ep: 07.0	7.16	
Parent Sample Id:	532686-001			mple la:	532686-00	)I D			DDD	<b>T</b> T - <b>1</b>		
Parameter	Parent Result		MD Result					%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0		<10.0					0	20	mg/kg	07.08.16 19:13	U
<b>Analytical Method:</b> Seq Number: Parent Sample Id: <b>Parameter</b> Chloride	Inorganic Anions b 997751 532697-003 Parent Result <10.0	y EPA 300		Matrix: mple Id:	Soil 532697-00	)3 D		Pr <b>%RPD</b> 0	rep Meth Date Pr <b>RPD</b> Limit 20		0P 17.16 <b>Analysis</b> Date 07.08.16 00:38	<b>Flag</b> U
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>Inorganic Anions b</b> 997751 532686-001	y EPA 300		Matrix: mple Id:	Soil 532686-00	)1 S		Pı	ep Meth Date Pr		0P 17.16	
Parameter	Parent	Spike	MS	MS			Limits			Units	Analysis	Flag
Chloride	Result <10.0	Amount 250	Result 224	%Rec 90			80-120			mg/kg	Date 07.08.16 19:21	
										88		
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>Inorganic Anions b</b> 997751 532697-003	y EPA 300		Matrix:	Soil 532697-00	13 8		Pı	ep Meth Date Pr		0P 07.16	
-	Parent	Spike	MS	MS	552077-00	555	Limits			Units	Analysis	
Parameter	Result	Amount	Result	%Rec							Date	Flag
Chloride	<10.0	250	223	89			80-120			mg/kg	07.08.16 00:46	
Analytical Method: Seq Number: Parameter	<b>Percent Moisture</b> 997692			Matrix: mple Id:	Solid 997692-1-	BLK				Units	Analysis Date	Flag
											07 06 16 10 00	

% 07.06.16 18:00

ND



QC Summary 532696



## GHD Services, INC- Midland

Analytical Method:	<b>Percent Moisture</b>						
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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Certified and approved by numerous States and Agencies.

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9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
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
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Setting the Standard since 1990 Stafford,Texas (281-240-4200)											Ddee	ea Tavac	(432-563-	1800)			Lakelan	d Florid	a (863-646-8	526)
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5 lotice: Signature of this document and relinquishment of samples	constitutes a valid purchase	order from client compan	y to XENCO Lab	oratori	es and its a	ffiliates,	subco	ontracto	ors an	d assig	Ins XE	NCO's stand	ard terms and	d conditio	ins of ser	vice unless	previously	/ treyrouater	unues a long o	4.8°C



Client: GHD Services, INC- Midland

### **XENCO** Laboratories Prelogin/Nonconformance Report- Sample Log-In



Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 06/30/2016 03:19:00 PM Temperature Measuring device used : R8 Work Order #: 532696 Comments Sample Receipt Checklist 4.8 #1 \*Temperature of cooler(s)? #2 \*Shipping container in good condition? N/A #3 \*Samples received on ice? Yes #4 \*Custody Seal present on shipping container/ cooler? N/A #5 \*Custody Seals intact on shipping container/ cooler? N/A N/A #6 Custody Seals intact on sample bottles? #7 \*Custody Seals Signed and dated? N/A #8 \*Chain of Custody present? Yes #9 Sample instructions complete on Chain of Custody? Yes #10 Any missing/extra samples? No #11 Chain of Custody signed when relinguished/ received? Yes #12 Chain of Custody agrees with sample 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 indicated test(s)? Yes #19 All samples received within hold time? Yes #20 Subcontract of sample(s)? No #21 VOC samples have zero headspace (less than 1/4 inch bubble)? N/A #22 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for N/A samples for the analysis of HEM or HEM-SGT which are verified by the analysts. #23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH? N/A

#### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Mary Alexis Negron Mary Negron Checklist reviewed by: Mary Moad Kelsey Brooks

Date: 07/01/2016

Date: 07/01/2016

Appendix B Waste Manifests

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NO	N-HAZARDOUS WASTE M				3074	1	.GEOF		ACTS	DON HUDA
10000	3. COMPANY NAME		ADDRESS		1014			PICK-UP DATE		IUA
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E	(432) 686-3705	i N	viidland		TX.	797	706			
	7. NAME OR DESCRIPTION OF WASTE	E SHIPPED:				8. CON No.	TAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID
N	<sup>a</sup> Non-Regulated, Non Hazardous	s Waste		·		1	СМ	QUANTITY	Y	WASTEID
-	b.									
E	С.									
R	WT: 2094D 10	1741	$\overline{\mathbf{D}}$	9877	)	<u> </u>				
	12. COMMENTS OR SPECIAL INSTRUC	CTIONS:		LUM				13. WASTE P	ROFILE N	10.
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	14. NAME				Y OR SPI	L <mark>L, CO</mark> I	NTACT			
Τ <sup>·</sup>	KIN SLAUGHTER		PHONE NO 575-887-4					24-HOUR	EMERGE	ENCY NO.
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T	AUTHORIZED SIGNATURE				CELL	NO.	-		DATE		)/2015	ТІМ	E

# LEA LAND DISPOSAL SITE NEW MEXICO

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

	1300 WEST MAIN ST			ND, LLC	PHONE (	405) 2	26 4257		12	
NO	N-HAZARDOUS WASTE MANIF						-		12	DR
NOI	3. COMPANY NAME			08122	1. PA	GE		2. TRAIL	ER NO	-126
G	E.O.G. RESOURSES	4. ADDF 5509								
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Е	(432) 686-3705	Midlar	าก่	TX.	797			00 1.0. 110	•	
Ľ	7. NAME OR DESCRIPTION OF WASTE SHIPPE				8. CON		RS 9	. TOTAL	10. UNIT	11. TEXAS
N					No.	Тур		JANTITY	Wt/Vol.	WASTE ID #
14	Non-Regulated, Non Hazardous Wast	e			1	CN	Λ		Ŷ	
n	b.									
E	с.									
R	WT 44820 4711	$\gamma\gamma$	37	181)						
	12. COMMENTS OR SPECIAL INSTRUCTIONS:					_	13.	WASTE P	ROFILE NO	).
A	SHORT FUSE FED # 1		10th	D 111	m					
	14. IN CA	SF OF	EMERC	ENCY OR SPIL		TTAC				
т	NAME	PHONI	E NO	ENCI OK SPIL	L, COP	IAC	<u>, I</u>	24-HOUR	EMERGEN	NCY NO.
-	KIN SLAUGHTER	575-8	87-4049							
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, and international and national government regulations, in	d labeled, a	and are in al	l respects in proper co	ondition fo	r trans	no <del>st</del> by h	iohway acco	arding to an	plicable
	PRINTED/TYPED NAME			SIGNATURE						
R				SIGIUMORE					1	DATE
Т	16. TRANSPORTER (1)			17.	TR	ANS	PORT	ER (2)		
R A	NAME: WATSON CONSTRUC	TION		NAME:						
N	TEXAS I.D. NO.			TEXAS I.D. NO.						
S P	IN CASE OF EMERGENCY CONTACT:	ZANE	KURTZ	IN CASE OF EMP	DGENOV		TACT.			
0		) 425-20	023			CON	IACL			
R T	18. TRANSPORTER (1): Acknowledgment o	f receipt o	of material	EMERGENCY PH 19. TRANSPO		2): Ad	knowled	lgment of re	ceipt of ma	terial
E	PRINTED/TYPED NAME ALL CH	APA	TAN/	PRINTED/TYPEI		-		-	•	
R S			<u> </u>		-					-
	SIGNATURE Ang Mann	DATE	47107	2015 SIGNATURE				D/	ATE	
		ADDR						PHONE:		
DF	Lea Land, LLC			Marker 64, U.	-		- 1		575-887	7-4048
ΙΑ	PERMIT NO.		<u> </u>	liles East of Ca	arlsbad,	, NN				
S C P I	WM-01-035 - New Mex	ico		20. COMMENTS						
OL SI	21 DISPOSAL FACILITY'S CERTIFIC	ATION:	I Hereby c	ertify that the above of	lescribed v	vastes	were deli	ivered to thi	s facility, th	at the
A T	facility is authorized and permitted to receive such w	astes.				-				
LY	AUTHORIZED SIGNATURE	10000		CELL NO.	/	D	ATE 4/1	0/2015	TIM	E 30

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

-				AST OF CARCEDAR	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	1300 WEST MAIN ST			<b>ND, LLC</b> A CITY, OK 73106 • F	PHONE (4	405) 236-4	257 ()	ats	on
NON	-HAZARDOUS WASTE MANIF	EST NO	0 1	08156	1. PA	GEOF_	2. TRAIL	ER NO.	+ 1D4
	3. COMPANY NAME	4. ADDRES	S			5. I	PICK-UP DATE		
G	E.O.G. RESOURSES PHONE NO.	5509 Cł CITY	hampi	Dr. STATE	:		4/14/2015 INRCC I.D. NO		
Е	(432) 586-3705	Midland		TX.	797	and the second s			
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
N	a. Non-Regulated, Non Hazardous Wast	e			1	СМ		Y	
Е	b.								
Ľ	с.								
R	dwT: 27,180 26	(8D							
	12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FED # 1			. 1			13, WASTE P	ROFILE NO	0.
A			No. of Concession, Name of Street, or other	and the second s	31	Statement of the local division of the local			
	14. IN CA	SE OF EN		ENCY OR SPIL	L, COM	TACT			
Т	KIN SLAUGHTER	575-887-	-				24-HOUR	EMERGEN	NCY NO.
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, and	are in al	respects in proper co	ndition fo	r transport	by highway acc	ording to ar	nlicable
R	PRINTED/TYPED NAME			SIGNATURE					DATE
Т	16. TRANSPORTER (1)			17.	TR	ANSPO	RTER (2)		
R A	NAME: WATSON CONSTRUC	TION		NAME:					
Ν	TEXAS I.D. NO.			TEXAS I.D. NO.					
S P	IN CASE OF EMERGENCY CONTACT:	ZANE KU	RTZ	IN CASE OF EME	RGENCY	CONTAC	CT:		
0		) 425-2023	3	EMERGENCY PH		CONTRACT	~ * •		
R T	18. TRANSPORTER (1): Acknowledgment c	of receipt of m	aterial	19. TRANSPOL		2): Ackno	wledgment of re	eceipt of ma	aterial
E	PRINTED/TYPED NAME JJSAGEL 5	e Fort	ж	PRINTED/TYPED	NAME				
R S	PRINTED/TYPED NAME ISAbel So SIGNATURE Untel Seyour	DATE	4/14/				D	ATE	
		ADDRESS	S:				PHONE:		
DF	Lea Land, LLC			Marker 64, U.			0,	575-88	7-4048
ΙΑ			<u>30 N</u>	files East of Ca	irlsbad	, NM			
S C P I	WM-01-035 - New Mex	ico		20. COMMENTS					
OL SI AT	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION: I I	Hereby c	ertify that the above d	escribed v	vastes wer	e delivered to th	is facility, ti	hat the
LY	AUTHORIZED SIGNATURE	0		CELL NO.	_	DATE	3	TIM	1E
	Manta Panal	Inn				1	4/14/2015	lir	00 r

# LEA LAND DISPOSAL SITE NEW MEXICO

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

								-	
	1300 WEST MAIN S			AND, LLC MA CITY, OK 73106 • 2	PHONE (	(405) 236	4257	DR	
NO	N-HAZARDOUS WASTE MANIE	EST	NO	108163	1. PA	GEOF	2. TRAII	LER NO.	DN
	3. COMPANY NAME	4. ADD	RESS			5.	PICK-UP DATE		UUP
G	E.O.G. RESOURSES PHONE NO.	5509 CITY	Cham	oion Dr. STATE		ZIP 6.	4/14/2015 TNRCC I.D. NO		
E	(432) 686-3705	Midla	nd	TX.		708	111100 1.D. 110		
	7. NAME OR DESCRIPTION OF WASTE SHIPPE			10.		TAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
N	<sup>a</sup> Non-Regulated, Non Hazardous Wasi	ie			1	СМ		Y	WASTE ID #
	b.								
E	с.								
R	WT 44420								
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE PI	ROFILE NO	D.
A	SHORT FUSE FED # 1								
	14. IN CA	SE OF	EMER	GENCY OR SPIL	L, CON	TACT			
Т	KIN SLAUGHTER	PHON	e no 87-4048				24-HOUR	EMERGEN	ICY NO.
0	15. GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, and international and national government regulations, in	I Hereby of	declare that	the contents of this con	nsignmen idition for	t are fully transport	and accurately d by highway acco	lescribed ab ording to ap	ove by proper plicable
R	PRINTED/TYPED NAME			SIGNATURE	the same	materials j	previously appro-		
A								1	DATE
T R	16. TRANSPORTER (1)			17.	TR	ANSPO	RTER (2)		
R A	NAME: WATSON CONSTRUC	TION		NAME:					
N	TEXAS I.D. NO.			TEXAS I.D. NO.					
S P	IN CASE OF EMERGENCY CONTACT-		KURTZ						
0	(420)	425-20		IN CASE OF EMER		CONTAC	T:		
R	EMERGENCY PHONE: (432) 18. TRANSPORTER (1): Acknowledgment of			EMERGENCY PHO 19. TRANSPOR		Da. 47	1.1		
T E R	PRINTED/TYPED NAME AT TLH	ΑРЛ	TLN	PRINTED/TYPED				-	terial
S	SIGNATURE May Haspiran		4/14	2015 SIGNATURE				 TE	-
		ADDRI	ESS:			-	PHONE:		
	Lea Land, LLC			Marker 64, U.S	Hwv	62/180		575-887	1010
D F I A				files East of Car			, _	010-001	-4048
S C	PERMIT NO.			20. COMMENTS	100444				
PI	WM-01-035 - New Mexi	co							
OL SI AT	21. DISPOSAL FACILITY'S CERTIFICA facility is authorized and permitted to receive such wa	TION: stes.	I Hereby c	ertify that the above des	cribed wa	astes were	delivered to this	facility, that	it the
LΥ	AUTHORIZED SIGNATURE		Marine and	CELL NO.		DATE			
i	MADS Monendis			CLEE III.	-	DATE			
U	TATA ILA AS A TATA A A A A A A A A A A A A A A		1	_	1	9	4/14/2015	112	511

5	TEATAND DIO	DOCA		TT A				
	LEA LAND DIS MILE MARKER #64 US HWY							U
	1300 WEST MAIN ST		<b>ND, LLC</b> A CITY, OK 73106 • 1	PHONE (	405) 236-4	257 ST		
NO	N-HAZARDOUS WASTE MANIF	EST NO	110355	1. PA	GEOF	2. TRAIL	ER NO.	mt
0	3. COMPANY NAME	4. ADDRESS			5.1	PICK-UP DATE		
G	E.O.G Resources PHONE NO.	cff09 Champ	iorstafe		ZIP 6.7	NREC F.B. No	ŀ.	
E	(432) 686-3705 7. NAME OR DESCRIPTION OF WASTE SHIPPE	Midland D:	TX		706 TAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
Ν	a. Non-Regulated, Non Hazardous Wast	e	· · · · · · · · · · · · · · · · · · ·	1	СМ		Y	
E	:38140							
R	WT: 40040 39	1.060!						
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FEDERAL #1		TEIILO	245	2	13. WASTE PI	ROFILE NO	Э.
	I4. IN CA	SE OF EMERG	ENCY OR SPIL	L, COI	TACT			
Т	NAME	PHONE NO 575-887-4048	· · ·			24-HOUR	EMERGEN	NCY NO.
0	15. <b>GENERATOR'S CERTIFICATION:</b> shipping name and are classified, packed, marked, and international and national government regulations, inc	l labeled, and are in al	I respects in proper co	ndition fo	r transport	by highway acco	ording to ar	nlicable
R	PRINTED/TYPED NAME CO. MAN: ZANE KURTZ		SIGNATURE				· · · · · · · · · · · · · · · · · · ·	DATE
T R	16. TRANSPORTER (1)		17.	TR	ANSPO	RTER (2)		
Α	NAME: <u>SDR ENTERPRSES</u>	LLC	NAME:					
N S	TEXAS I.D. NO.		TEXAS I.D. NO.					
P	IN CASE OF EMERGENCY CONTACT:	SHANNON	IN CASE OF EME	RGENCY	CONTAC	CT:		
O R	EMERGENCI THORE.	441-7330	EMERGENCY PH					
T E	18. TRANSPORTER (1): Acknowledgment of PRINTED/TYPED NAME X ACL R K		19. <b>TRANSPOI</b> PRINTED/TYPED		-	-	•	uterial
R S	SIGNATURE + CRK		2015 SIGNATURE	_			ATE	
DF	Lea Land, LLC	ADDRESS: Mile	Marker 64, U. files East of Ca	S. Hw	y 62/18	PHONE:	575-887	7-4048
IA SC PI	PERMIT NO. WM-01-035 - New Mexi		20. COMMENTS			<b>I</b>		
OL SI AT	21. <b>DISPOSAL FACILITY'S CERTIFICA</b> facility is authorized and permitted to receive such wa	ATION: I Hereby c astes.	ertify that the above de	escribed v	vastes were	e delivered to thi	s facility, th	nat the
LY	AUTHORIZED SIGNATURE		CELL NO.		DATE		TIM	ΙE
	I Imai hadind					8/21/2015	19	.05

	LEA LAND DISP MILE MARKER #64 US HWY 62						XIC	0
	1300 WEST MAIN STRE		<b>ND, LLC</b> A CITY, OK 73106 • 1	PHONE (	405) 236-4	257 ST	70	
ION	N-HAZARDOUS WASTE MANIFES	ST NO	110356	1. PA	GEOF	2. TRAIL	ER NO.	002
~	3. COMPANY NAME 4.	ADDRESS			5. I	PICK-UP DATE		
G		<b>509 Champ</b> i TY	i <b>on Dr.</b> STATE		ZIP 6. 7	<u>8/21/2015</u> INRCC I.D. NO		
E	(432) 686-3705 N	lidland	ТХ.		708	( <u> </u>		
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
N	<sup>a</sup> Non-Regulated, Non Hazardous Waste			1	СМ		Y	
	b.			-				
E	c.							
R	23940.							
	12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FEDERAL #1					13. WASTE P	ROFILE N	Ю.
A								
			ENCY OR SPIL	L, CO	NTACT			
Г		PHONE NO				24-HOUR	EMERGE	NCY NO.
-	15.GENERATOR'S CERTIFICATION: I H shipping name and are classified, packed, marked, and la international and national government regulations, includ PRINTED/TYPED NAME	ereby declare that beled, and are in al	ll respects in proper co	ndition fo	or transport	by highway acc	ording to a	pplicable
-	shipping name and are classified, packed, marked, and la international and national government regulations, include	ereby declare that beled, and are in al	Il respects in proper co te regulations, and are	ndition fo	or transport	by highway acc	ording to a	pplicable A LAND, LLC
R	shipping name and are classified, packed, marked, and la international and national government regulations, includ PRINTED/TYPED NAME	ereby declare that beled, and are in al	Il respects in proper co te regulations, and are	ndition fo the same	or transport materials	by highway acc	ording to a	pplicable A LAND, LLC
R F R	shipping name and are classified, packed, marked, and la international and national government regulations, includ PRINTED/TYPED NAME CO. MAN: ZANE KURTZ	ereby declare that beled, and are in al ding applicable sta	Il respects in proper co te regulations, and are SIGNATURE	ndition fo the same	or transport materials	by highway acc previously appro	ording to a	pplicable A LAND, LLC
R T R A N	shipping name and are classified, packed, marked, and la international and national government regulations, includ PRINTED/TYPED NAME CO. MAN: ZANE KURTZ 16. TRANSPORTER (1)	ereby declare that beled, and are in al ding applicable sta	Il respects in proper co te regulations, and are SIGNATURE 17.	ndition fo the same	or transport materials	by highway acc previously appro	ording to a	pplicable A LAND, LLC
R T R A N S	shipping name and are classified, packed, marked, and la         international and national government regulations, includ         PRINTED/TYPED NAME         CO. MAN: ZANE KURTZ         16.       TRANSPORTER (1)         NAME:       SDR ENTERPRSES LL	ereby declare that beled, and are in al ding applicable sta	Il respects in proper co te regulations, and are SIGNATURE 17. NAME:	ndition fo the same TH	RANSPO	by highway acc previously appro	ording to a	pplicable A LAND, LLC
R T R A N S S P D	shipping name and are classified, packed, marked, and la         international and national government regulations, includ         PRINTED/TYPED NAME         CO. MAN: ZANE KURTZ         16.       TRANSPORTER (1)         NAME:       SDR ENTERPRSES LL         TEXAS I.D. NO.       IN CASE OF EMERGENCY CONTACT:	ereby declare that beled, and are in al ding applicable sta	Il respects in proper co te regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO.	ndition fo the same TF	RANSPO	by highway acc previously appro	ording to a	pplicable A LAND, LLC
R T R A N S P O R	shipping name and are classified, packed, marked, and la international and national government regulations, includ PRINTED/TYPED NAME CO. MAN: ZANE KURTZ 16. TRANSPORTER (1) NAME: <u>SDR ENTERPRSES LL</u> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: (575) A	ereby declare that beled, and are in al ding applicable sta 	Il respects in proper co te regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EME	ndition fo the same TF RGENCY ONE:	RANSPO	by highway acc previously appro <b>PRTER (2)</b> CT:	ording to a wed by LE	pplicable A LAND, LLC DATE
R T R A N S P O R T E	shipping name and are classified, packed, marked, and la         international and national government regulations, includ         PRINTED/TYPED NAME         CO. MAN: ZANE KURTZ         16.       TRANSPORTER (1)         NAME:       SDR ENTERPRSES LL         TEXAS I.D. NO.       IN CASE OF EMERGENCY CONTACT:         EMERGENCY PHONE:       (575) 4         18. TRANSPORTER (1): Acknowledgment of re	ereby declare that beled, and are in al ding applicable sta 	Il respects in proper co te regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EME EMERGENCY PH	ndition fo the same TF RGENCY ONE: RTER (	RANSPO Y CONTAC	by highway acc previously appro <b>PRTER (2)</b> CT:	ording to a wed by LE	pplicable A LAND, LLC DATE
R T R A N S P O R T E R	shipping name and are classified, packed, marked, and la         international and national government regulations, includ         PRINTED/TYPED NAME         CO. MAN: ZANE KURTZ         16.       TRANSPORTER (1)         NAME:       SDR ENTERPRSES LL         TEXAS I.D. NO.       IN CASE OF EMERGENCY CONTACT:         EMERGENCY PHONE:       (575) 4	ereby declare that beled, and are in al ding applicable sta 	Il respects in proper co te regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EME EMERGENCY PH 19. <b>TRANSPO</b> I	ndition fo the same TF RGENCY <u>ONE:</u> <b>RTER</b>	ANSPO Y CONTAC	by highway acc previously appro <b>PRTER (2)</b> CT:	ording to a wed by LE	pplicable A LAND, LLC DATE
R T R A N S P O R T E R	shipping name and are classified, packed, marked, and la international and national government regulations, includ PRINTED/TYPED NAME CO. MAN: ZANE KURTZ 16. TRANSPORTER (1) NAME: SDR ENTERPRSES LL TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: (575) 4 18. TRANSPORTER (1): Acknowledgment of re PRINTED/TYPED NAME TAMES F SIGNATURE	ereby declare that beled, and are in al ding applicable sta ding applicable sta SHANNON 41-7330 ceipt of material Dulling 8/21/ ATE ADDRESS:	Il respects in proper co te regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EME EMERGENCY PH 19. <b>TRANSPO</b> PRINTED/TYPED 2015 SIGNATURE	ndition fo the same TF RGENCY ONE: RTER (	ANSPO Y CONTAC	by highway acc previously appro PRTER (2) CT: bwledgment of re D PHONE:	ecceipt of m	pplicable A LAND, LLC DATE
R T R A N S S P D R T E R S	shipping name and are classified, packed, marked, and la         international and national government regulations, includ         PRINTED/TYPED NAME         CO. MAN: ZANE KURTZ         16.       TRANSPORTER (1)         NAME:       SDR ENTERPRSES LL         TEXAS I.D. NO.       IN CASE OF EMERGENCY CONTACT:         EMERGENCY PHONE:       (575) 4         18.       TRANSPORTER (1): Acknowledgment of re         PRINTED/TYPED NAME       *James         SIGNATURE       *Ames	ereby declare that beled, and are in al ding applicable sta 	Il respects in proper co te regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EME EMERGENCY PH 19. TRANSPOI PRINTED/TYPEE 2015 SIGNATURE Marker 64, U.	ndition for the same TH RGENCY ONE: RTER ( NAME S. HW	x CONTAC (2): Ackno y 62/18	by highway acc previously appro PRTER (2) CT: bwledgment of re D PHONE:	ecceipt of m	pplicable A LAND, LLC DATE
R T R A N S S P O R T E R S S F A	shipping name and are classified, packed, marked, and la international and national government regulations, includ PRINTED/TYPED NAME CO. MAN: ZANE KURTZ 16. TRANSPORTER (1) NAME: SDR ENTERPRSES LL TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: (575) 4 18. TRANSPORTER (1): Acknowledgment of re PRINTED/TYPED NAME Tames for SIGNATURE Advances Durba	ereby declare that beled, and are in al ding applicable sta 	Il respects in proper co te regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EME EMERGENCY PH 19. TRANSPOI PRINTED/TYPEE 2015 SIGNATURE Marker 64, U. Ailes East of Ca	ndition for the same TH RGENCY ONE: RTER ( NAME S. HW	x CONTAC (2): Ackno y 62/18	by highway acc previously appro PRTER (2) CT: bwledgment of re D PHONE:	ecceipt of m	pplicable A LAND, LLC DATE
R T R A N S S P D R T E R S S F A C	shipping name and are classified, packed, marked, and la international and national government regulations, includ PRINTED/TYPED NAME CO. MAN: ZANE KURTZ 16. TRANSPORTER (1) NAME: SDR ENTERPRSES LL TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: (575) 4 18. TRANSPORTER (1): Acknowledgment of re PRINTED/TYPED NAME TAMES F SIGNATURE	ereby declare that beled, and are in al ding applicable sta ding applicable sta SHANNON 41-7330 receipt of material Dulling 8/21/ ATE ADDRESS: Mile 30 N	Il respects in proper co te regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EME EMERGENCY PH 19. TRANSPOI PRINTED/TYPEE 2015 SIGNATURE Marker 64, U.	ndition for the same TH RGENCY ONE: RTER ( NAME S. HW	x CONTAC (2): Ackno y 62/18	by highway acc previously appro PRTER (2) CT: bwledgment of re D PHONE:	ecceipt of m	pplicable A LAND, LLC DATE
R T R A N S P O R T E R S F A C I L I	shipping name and are classified, packed, marked, and la international and national government regulations, includ PRINTED/TYPED NAME CO. MAN: ZANE KURTZ 16. TRANSPORTER (1) NAME: SDR ENTERPRSES LL TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: (575) 4 18. TRANSPORTER (1): Acknowledgment of re PRINTED/TYPED NAME Tames for SIGNATURE Advances Durbes Lea Land, LLC	ereby declare that beled, and are in al ding applicable sta 	Il respects in proper co te regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EME EMERGENCY PH 19. TRANSPO PRINTED/TYPEE 2015 SIGNATURE Marker 64, U. Ailes East of Ca 20. COMMENTS	TF RGENCT ONE: RTER ( NAME S. Hw urlsbad	Y CONTAC (2): Ackno y 62/18 I, NM	by highway acc previously appro PRTER (2) CT: Dwledgment of re D PHONE: 0,	ecceipt of m	pplicable A LAND, LLC DATE naterial
A C I L	shipping name and are classified, packed, marked, and la international and national government regulations, includ PRINTED/TYPED NAME CO. MAN: ZANE KURTZ 16. TRANSPORTER (1) NAME: SDR ENTERPRSES LL TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: (575) 4 18. TRANSPORTER (1): Acknowledgment of re PRINTED/TYPED NAME SIGNATURE Lea Land, LLC PERMIT NO. WM-01-035 - New Mexico 21. DISPOSAL FACILITY'S CERTIFICAT	ereby declare that beled, and are in al ding applicable sta 	Il respects in proper co te regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EME EMERGENCY PH 19. TRANSPO PRINTED/TYPEE 2015 SIGNATURE Marker 64, U. Ailes East of Ca 20. COMMENTS	TF RGENCT ONE: RTER ( NAME S. Hw urlsbad	Y CONTAC (2): Ackno y 62/18 I, NM	by highway acc previously appro PRTER (2) CT: Dweldgment of re D PHONE: 0, PHONE: 0,	ecceipt of m ATE 575-88 is facility,	pplicable A LAND, LLC DATE naterial

	LEA LAND DIS MILE MARKER #64 US HWY						KIC	0
	1300 WEST MAIN ST		<b>ND, LLC</b> A CITY, OK 73106 • 1	PHONE (	405) 236-42	<sup>257</sup> ST	DP	
NON	N-HAZARDOUS WASTE MANIF	EST NO	110318	1. PA	GEOF_	2. TRAII	ER NO.	#COM
G E	3. COMPANY NAME E.O.G Resources PHONE NO. (432) 696-3705	4. ADDRESS 5509 Champ CITY Midland	ion Dr. STATE TX.	79	ZIP 6. TI 706	ICK-UP DATE 8/20/2015 NRCC I.D. NO	).	
N	7. NAME OR DESCRIPTION OF WASTE SHIPPE aNon-Regulated. Non Hazardous Wast		<u></u>	8. CON No. 1	TAINERS Type CM	9. TOTAL QUANTITY	10. UNIT Wt/Vol. Y	11. TEXAS WASTE ID #
E	<sup>b.</sup> 23,820							
R	aWT: 20.640.25 12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FEDERAL#1	5.000				13. WASTE P	ROFILE N	0.
A			T-6	9.4	60			
Т	NAME	SE OF EMERG 575-987-4048	ENCY OR SPIL	L, CO	MACT	24-HOUR	EMERGE	NCY NO.
0	15.GENERATOR'S CERTIFICATION: 1 shipping name and are classified, packed, marked, and international and national government regulations, inc	l labeled, and are in a	Il respects in proper co	ndition fo	or transport b	ov highway acc	ording to a	pplicable
R	PRINTED TYPED NAME URTZ		SIGNATURE					DATE
T R A N S P O R T E R S	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of PRINTED/TYPED NAME	SHANNON 441-7330	17. NAME: TEXAS I.D. NO. IN CASE OF EME <u>EMERGENCY PH</u> 19. <b>TRANSPOI</b> PRINTED/TYPED 2015 SIGNATURE	RGENC <sup>Y</sup> ONE: RTER (	Y CONTAC 2): Acknow	vledgment of n	*	
D F I A	Lea Land, LLC		e Marker 64, U. Ailes East of Ca			), PHONE:	575-88	7-4048
S C P I O L S I	PERMIT NO. WM-01-035 - New Mexi 21. <b>DISPOSAL FACILITY'S CERTIFIC</b>		20. COMMENTS	escribed	wastes were	delivered to th	is facility.	that the
A T L Y	facility is authorized and permitted to receive such with a such of the such with the such as the such	astes.	CELL NO.		DATE	8/20/2015		

	LEA LAND DISPOSA	LSITE	N	EW	ME	XIC	<b>'</b>
	MILE MARKER #64 US HWY 62/180 • 30 MILES	EAST OF CARLSBAI	D, NM •	PHONE (:	575) 887-4048		
	LEA LA 1300 WEST MAIN STREET • OKLAHOM	<b>ND, LLC</b> A CITY, OK 73106 • 1	PHONE	(405) 236-	4257	$D^2$	
NO	N-HAZARDOUS WASTE MANIFEST NO	112320	I. PA	GEOF	2. TRAII	LER NO.	HODE
G	3. COMPANY NAME     4. ADDRESS       E.O.G Resources     5509 Champ       PHONE NO.     CITY       (432) 686-3705     Midland	ion Dr. STATE		ZIP 6.	PICK-UP DATE 11/25/2015 TNRCC I.D. NC		000
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	TX		706 TAINERS	9. TOTAL	10. UNIT	11. TEXAS
N	aNon-Regulated, Non Hazardous Waste		No.	Type CM	QUANTITY	Wt/Vol.	WASTE ID #
E	b. c.						
R	4-0940 41920 3 12. COMMENTS'OR SPECIAL INSTRUCTIONS:	13,840			13. WASTE P	ROFILE N	0
A	SHORT FUSE FED # 1	2 124	70	$\overline{D}$	IS WASTEL	NOTICE N	
Т	IN CASE OF EMERG           NAME         PHONE NO           KIN SLAUGHTER         575-887-4048					EMERGEI	
0	15. <b>GENERATOR'S CERTIFICATION:</b> I Hereby declare that shipping name and are classified, packed, marked, and labeled, and are in al international and national government regulations, including applicable states						
R	PRINTED/TYPED NAME	SIGNATURE					DATE
T R A N S P O	16.       TRANSPORTER (1)         NAME:       SDR ENTERPRISE LLC         TEXAS I.D. NO.       IN CASE OF EMERGENCY CONTACT:         SHANNON       EMERGENCY PHONE:         (575) 441-7330	17. NAME: TEXAS I.D. NO. IN CASE OF EMEF EMERGENCY PHO	RGENCY		<b>DRTER (2)</b>		
R T E R S	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME (Arch Locefree	19. <b>TRANSPOR</b> PRINTED/TYPED	TER (				
	SIGNATURE THUR DATE 11/25/	2035 GNATURE			D/	ATE	
D F I A		Marker 64, U.S files East of Car			0, PHONE:	575-887	7-4048
S C P I O L	WM-01-035 - New Mexico	20. COMMENTS					
SI AT	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby ca facility is authorized and permitted to receive such wastes.	ertify that the above de	scribed v	vastes were	e delivered to thi	s facility, th	nat the
LY	AUTHORIZED SIGNATURE	CELL NO.		DATE	1/25/2015	TIM	E TV
BENER	ATOR: COPIES 1 & 6	: COPIES 2 & 3		·	TRANSPO	DTERS C	

	MILE MARKER #64 US HWY 62/180 • 30 MILES						
	LEA LA 1300 WEST MAIN STREET • OKLAHOM	<b>ND, LLC</b> IA CITY, OK 73106 •	PHONE (	(405) 236-4	4257	DF	3
NO	N-HAZARDOUS WASTE MANIFEST NO	112418	1. PA	.GEOF	2. TRAII	LER NO.	#DDI
G E	3. COMPANY NAME       4. ADDRESS         E.O.G Resources       5509 Champ         PHONE NO.       CITY         (432) 686-3705       Midland	ion Dr. state TX.			PICK-UP DATE 12/3/2015 TNRCC I.D. NC		
E,	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			TAINERS	9. TOTAL	10. UNIT	11. TEXA
N	aNon-Regulated, Non Hazardous Waste		No. 1	Type CM	QUANTITY	Wt/Vol. Y	WASTE ID
E	b. c.						
R	42,080 39,380 °	39.74D					
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: SHORT FUSE FED # 1	2 121	DA	)	13. WASTE P	ROFILE N	0.
	14. IN CASE OF EMERG	ENCY OR SPIL	L.CON	TACT			
Т	NAME PHONE NO KIN SLAUGHTER 575-987-4048				24-HOUR	EMERGE	NCY NO.
0	15. <b>GENERATOR'S CERTIFICATION:</b> I Hereby declare that shipping name and are classified, packed, marked, and labeled, and are in a international and national government regulations, including applicable states and the states of the states o						
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.					
N S P	TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: SHANNON	TEXAS I.D. NO. IN CASE OF EME	RGENCY	CONTAC	CT:		
N S P O	IN CASE OF EMERGENCY CONTACT: SHANNON EMERGENCY PHONE: (575) 441-7330	IN CASE OF EME		CONTAC	CT:		
N S P O R T	IN CASE OF EMERGENCY CONTACT: SHANNON		ONE:			ceipt of ma	aterial
N S P O R T E	IN CASE OF EMERGENCY CONTACT: SHANNON EMERGENCY PHONE: (575) 441-7330	IN CASE OF EME EMERGENCY PH 19. TRANSPOL	ONE: RTER (	2): Ackno	wledgment of re		
N S P O R T	IN CASE OF EMERGENCY CONTACT: SHANNON EMERGENCY PHONE: (575) 441-7330 18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Acknowledgment of receipt of material	IN CASE OF EME EMERGENCY PH 19. TRANSPOI PRINTED/TYPED	ONE: RTER (1 NAME _	<b>2):</b> Ackno	wledgment of re		
N S P O R T E R	IN CASE OF EMERGENCY CONTACT: SHANNON EMERGENCY PHONE: (575) 441-7330 18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME CARACTER SIGNATURE CARACTER SIGNATURE 12/3/ ADDRESS:	IN CASE OF EME EMERGENCY PH 19. TRANSPOL	ONE: RTER (1 NAME _	<b>2):</b> Ackno	wledgment of re		
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N S P O R T E R S F A C I	IN CASE OF EMERGENCY CONTACT: SHANNON EMERGENCY PHONE: (575) 441-7330 18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME CARACTER SIGNATURE CARACTER (1): ACKNOWLEDGMENT (1): A	IN CASE OF EME <u>EMERGENCY PH</u> 19. <b>TRANSPOI</b> PRINTED/TYPED 2015 SIGNATURE Marker 64, U.3	one: RTER (1 NAME_ S. Hwy	2): Ackno	wledgment of re D/ PHONE:	ATE	
N S P O R T E R S F A C I L I T	IN CASE OF EMERGENCY CONTACT: SHANNON EMERGENCY PHONE: (575) 441-7330 18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Achieve Ache SIGNATURE AND ACHIEVE 12/3/ Lea Land, LLC ADDRESS: Lea Land, LLC Mile 30 M PERMIT NO.	IN CASE OF EME <u>EMERGENCY PH</u> 19. <b>TRANSPOH</b> PRINTED/TYPED 2015 SIGNATURE Marker 64, U.1 <u>Ailes East of Ca</u> 20. COMMENTS	one: RTER ( NAME _ S. Hwy rlsbad,	2): Ackno 7 62/18 NM	wledgment of re D/ D, PHONE:	ATE 575-887	7-4048
NSPORTERS FACILI	IN CASE OF EMERGENCY CONTACT: SHANNON EMERGENCY PHONE: (575) 441-7330 18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Achieve Ace SIGNATURE AND ACHIEVE 12/3/ Lea Land, LLC ADDRESS: Lea Land, LLC Mile 30 N PERMIT NO. 21. DISPOSAL FACILITY'S CERTIFICATION: 1 Hereby of	IN CASE OF EME <u>EMERGENCY PH</u> 19. <b>TRANSPOH</b> PRINTED/TYPED 2015 SIGNATURE Marker 64, U.1 <u>Ailes East of Ca</u> 20. COMMENTS	one: RTER ( NAME _ S. Hwy rlsbad,	2): Ackno 7 62/18 NM	wledgment of re D/ PHONE: O, delivered to thi	ATE 575-887	7-4048

	1300 WEST MAIN STRE			<b>ND, LLC</b> CITY, OK 73106 • 1	HONE (4	105) 236-4	257 81	DR		
DN-	HAZARDOUS WASTE MANIFES	ST N	NO 1	12439	1. PA	GEOF	2. TRAIL	LER NO.	ale	
F	E.O.G Resources 6 PHONE NO. CI	ADDRE 5509 ITY viidland	Champic	n Dr. STATE TX.	5. PICK-UP DATE 12/4/2015 ZIP 6. TNRCC I.D. NO. 79706					
	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non Hazardous Waste				8. CON No. 1	TAINERS Type CM	9. TOTAL QUANTITY	10. UNIT Wt/Vol. Y	11. TEXAS WASTE ID	
	MT 40140 @ 3994	Ð	04	3 BLID						
	12. COMMENTS OR SPECIAL INSTRUCTIONS:       13. WASTE PROFILE NO.         14.       10. 123,940         14.       IN CASE OF EMERGENCY OR SPILL, CONTACT         14.       PHONE NO.         24-HOUR EMERGENCY NO.									
T       INAME         KIN SLAUGHTER       575-887-4048         0       15.GENERATOR'S CERTIFICATION: 1 Hereby declare that the contents of this consignment are fully and accurate shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway international and national government regulations, including applicable state regulations, and are the same materials previously applicable state regulations, and are the same materials previously applicable state regulations.         PRINTED/TYPED NAME       SIGNATURE								ay according to applicable		
ļi	international and national government regulations, inclu-	abeled a	und are in al	l respects in proper c e regulations, and ar	ondition f	or transpor	t by highway ac	cording to a	A LAND, LL	
i R R R R R R R R R R R	International and national government regulations, inclu PRINTED/TYPED NAME 16. TRANSPORTER (1) NAME: <u>SDR ENTERPRISE L</u> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT:	labeled, a uding app LC SH,A 441-73	und are in al plicable stat NNON 330	l respects in proper c e regulations, and ar	T ERGENC HONE: DRTER	RANSP / CY CONTA (2): Ack	orreviously approviously approviously approviously approved approv	Freceipt of r	DATE	
i R R N S S S S S S S S S S S S S S S S S	international and national government regulations, inclusion         PRINTED/TYPED NAME         16. <b>TRANSPORTER (1)</b> NAME:       SDR ENTERPRISE L         TEXAS I.D. NO.         IN CASE OF EMERGENCY CONTACT:         EMERGENCY PHONE:       (575)         18. TRANSPORTER (1): Actinowledgment of         PRINTED/TYPED NAME	LC SHA 441-73 receipt o	ANNON 330 of material 12/4/	l respects in proper c te regulations, and ar SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EM EMERGENCY P 19. <b>TRANSPO</b>	T ergence HONE: DRTER	RANSP( / CY CONTA (2): Ack	orreviously approviously approviously approviously approved approv	Freceipt of n	DATE	
I R R R R R F	international and national government regulations, inclusion         PRINTED/TYPED NAME         16. <b>TRANSPORTER (1)</b> NAME:       SDR ENTERPRISE L         TEXAS I.D. NO.         IN CASE OF EMERGENCY CONTACT:         EMERGENCY PHONE:       (575)         18. TRANSPORTER (1): Actinowledgment of         PRINTED/TYPED NAME	LC SHA 441-73 receipt o	ANNON 330 12/4/ RESS: Mile	l respects in proper c te regulations, and ar SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EM <u>EMERGENCY P</u> 19. <b>TRANSPO</b> PRINTED/TYPE	T ergence hone: prter D NAME	RANSP( / CY CONTA (2): Ack	DRTER (2) ACT: nowledgment of PHONE	Freceipt of r DATE	DATE	
F A C I	International and national government regulations, inch PRINTED/TYPED NAME 16. TRANSPORTER (1) NAME: <u>SDR ENTERPRISE L</u> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: <u>EMERGENCY PHONE:</u> (575) 18. TRANSPORTER (1): A CHNOWledgment of PRINTED/TYPED NAME Lea Land, LLC PERMIT NO. WM-01-035 - New Mexic	LC SH,A 441-73 receipt o DATE ADDR	ANNON 330 of material 2 12/4/ RESS: Mile 30 N	l respects in proper c te regulations, and an SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EM EMERGENCY P 19. <b>TRANSPO</b> PRINTED/TYPE 2015 SIGNATURE e Marker 64, U Miles East of C 20. COMMENTS	T ERGENC HONE: DRTER D NAME	RANSPO / CY CONTA (2): Ack c wy 62/1 .d, NM	ORTER (2) ACT: nowledgment of 80, PHONE	Freceipt of n DATE 575-8	naterial	
I R R R S F A C	International and national government regulations, inch PRINTED/TYPED NAME 16. TRANSPORTER (1) NAME: <u>SDR ENTERPRISE L</u> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: <u>EMERGENCY PHONE:</u> (575) 18. TRANSPORTER (1): Actnowledgment of PRINTED/TYPED NAME (1): Actnowledgment of PRINTED/TYPED NAME (1): Actnowledgment of Lea Land, LLC PERMIT NO.	LC SH,A 441-73 receipt o DATE ADDR CO	ANNON 330 of material 2 12/4/ RESS: Mile 30 N	l respects in proper c te regulations, and an SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EM EMERGENCY P 19. <b>TRANSPO</b> PRINTED/TYPE 2015 SIGNATURE e Marker 64, U Miles East of C 20. COMMENTS	T ERGENC HONE: DRTER D NAME	RANSPO / CY CONTA (2): Ack c wy 62/1 .d, NM	ORTER (2) ACT: nowledgment of 80, PHONE	Freceipt of n DATE 575-8	naterial	

LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048								
rran	7a							
LER NO. #	27							
5. PICK-UP DATE 12/7/2015 6. TNRCC I.D. NO.								
	11. TEXAS WASTE ID #							
PROFILE NO.								
SHORT FUSE FED # 1     The second secon								
KIN SLAUGHTER       575-887-4048         15.GENERATOR'S CERTIFICATION: 1 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								
17.       TRANSPORTER (2)         NAME:								
PHONE: PORTER (2): Acknowledgment of receipt of material PED NAME DATE								
PHONE:1ile Marker 64, U.S. Hwy 62/180,0 Miles East of Carlsbad, NM								
PERMIT NO. WM-01-035 - New Mexico								
the above described wastes were delivered to this facility, that the								
5 M	.DD							
1 :: t	DATE 575-887							

LEA LAND DISPOSAL SITE NEW MEXICO 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									
NO	N-HAZARDOUS WASTE MANIFEST NO	112484	I. PA	GEOF	2. TRAIL	ER NO.	# 27		
	3. COMPANY NAME 4. ADDRESS			5. F	PICK-UP DATE				
G	E.O.G Resources 5509 Champi PHONE NO. CITY	ori Dr. State	<u>12/8/2015</u> ZIP 6. TNRCC I.D. NO.						
E	(432) 696-3705 Midland	TX.	797						
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CON' No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #		
N	<sup>a</sup> Non-Regulated, Non Hazardous Waste		1	CM		Y			
	b,								
E	c. 🦷	t = t - a readers and							
	WT: ALLAD @ ADMAD	12100			·				
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:	Gau			13. WASTE P	ROFILE N	0.		
A	SHORT FUSE FED # 1	1300	NO	)					
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT								
Т	NAME PHONE NO 24-HOUR EMERGENCY 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, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC								
R	PRINTED/TYPED NAME	SIGNATURE					DATE		
Т	16. <b>TRANSPORTER (1)</b> 17.			RANSPO	ORTER (2)				
R A	NAME: SDR ENTERPRISE LLC	NAME:							
N S	TEXAS I.D. NO.	TEXAS I.D. NO.							
Р	IN CASE OF EMERGENCY CONTACT: SHANNON	N IN CASE OF EMERGENCY CONTACT:							
O R	EMERGENCY PHONE:       (575) 441-7330         18. TRANSPORTER (1): Acknowledgment of receipt of material								
T E	PRINTED/TYPED NAME (11. TECHNOLOGIAN OF TECHNO								
R S	A	PRINTED/TYPED NAME							
		20\$1569000000000000000000000000000000000000				DATE			
	Lea Land, LLC Mile	e Marker 64, U	.S. Hw	v 62/18	PHONE:	575-88	37-4048		
	30 N	Ailes East of C							
S C P 1	PERMIT NO. WM-01-035 - New Mexico								
S I A I	21. <b>DISPOSAL FACILITY'S CERTIFICATION:</b> I Hereby a facility is authorized and permitted to receive such wastes.	certify that the above	described	wastes we	re delivered to t	his facility,	that the		
L	AUTHORIZED SIGNATURE	CELL NO.	/	DAT	E	TI	ME		
	Wantob Donzaliz				12/8/2015		1.00		
GENE	RATOR: COPIES 1 & 6 DISPOSAL SIT	E: COPIES 2 & 3			TRANSI	PORTERS:	COPIES 4 & 5		

G 3. COMPANY N E.O.G Res PHONE NO. (432) 686-3 7. NAME OR D N aNon-Regula b. E c. R d. VT 2 12. COMMENT A 3HORT FU 13. COMMENT A 14. T SHORT FU 14. T 14. T NAME KIN SLAUC SHORT FU 15.GENERA shipping name as international and R PRINTED/TYPE T 16. R NAME: N TEXAS I.D. NO S IN CASE OF E O EMERGENCY R 18. TRANSP F IN CASE OF E D F I A S C PERMIT NO.	Sources 705 DESCRIPTION OF WASTE SHIPPI Sted, Non Hazardous Was 920 42,2 'S OR SPECIAL INSTRUCTIONS SE FED # 1	TREET • OKLAHOM <b>EST</b> NO 4. ADDRESS <b>5509</b> Champ CITY Midland ED: te <b>3</b>	112508	1. PA( 797	GEOF 5. Pl ZIP 6. TI	111		#27		
G 3. COMPANY P E.O.G Res PHONE NO. (432) 686-3 7. NAME OR D A A ANON-REGUIA b. C. C. A AINON-REGUIA b. C. C. A AINON-REGUIA D. F C. A IS. GENERA SHORT FU SHORT FU SHORT FU SHORT FU IA. A IS. GENERA SHORT FU IS. GENERA SHORT FU IS. GENERA SHORT FU IS. GENERA SHORT FU IS. GENERA SHORT FU IS. GENERA SHORT FU IS. GENERA SHORT FU IS. GENERA SHORT FU IS. GENERA SHORT FU IS. SHORT FU IS	NAME Sources 5705 DESCRIPTION OF WASTE SHIPPI sted, Non Hazardous Was 920 C 42,2 'S OR SPECIAL INSTRUCTIONS SE FED # 1	4. ADDRESS 5509 Champ CITY Midland ED: te	ion Dr. STATE	797 8. CON No.	ZIP 6. TI ZIP 6. TI ZOB	CK-UP DATE 12/9/2015 NRCC I.D. NO 9. TOTAL	). 10. UNIT Wt/Vol.			
G E.O.G Res PHONE NO. (432) 686-3 7. NAME OR D A aNon-Regula b. C. R dV J 12. COMMENT A 14. T SHORT FU A 14. T SHORT FU A 15.GENERA SHORT FU 15.GENERA SHORT FU 15.GENERA SHORT FU 16. R PRINTED/TYPE I 16. R NAME: N TEXAS I.D. NO S IN CASE OF E O EMERGENCY 18. TRANSP R SIGNATURE S IGNATURE	Sources 705 DESCRIPTION OF WASTE SHIPPI Sted, Non Hazardous Was 920 42,2 'S OR SPECIAL INSTRUCTIONS SE FED # 1	5509 Champ CITY Midland ED: te	STATE	797 8. CON No.	ZIP 6. TI OB TAINERS Type	1 <b>2/9/2015</b> NRCC I.D. NO 9. TOTAL	10. UNIT Wt/Vol.			
N7. NAME OR DNaNon-Regulab.c.Ec.RdW J J J J12. COMMENTASHORT FUA14.TSHORT FUA15.GENERAOlis.GENERAshipping name as international andRPRINTED/TYPIT16.RPRINTED/TYPIIN CASE OF EOEMERGENCYRPRINTED/TYPISSIGNATUREDFI A SPERMIT NO.	And the second s	te XeD 3	35,520	No.	Туре		Wt/Vol.			
Image: Book of the second s	920 42,2 s or special instructions SE FED # 1	XeD 3	35,520			QUANTIT		WASTEID		
E c R d <sup>VV T</sup>	SE FED#1	XeD 3	35,520					(		
R       d.VV T       I         I2. COMMENT       I2. COMMENT         A       SHORT FU         I4.       SHORT FU         I5. GENERA'       Shipping name ar         international and       R         PRINTED/TYPI         T       16.         R       PRINTED/TYPI         T       16.         R       PRINTED/TYPI         R       IN CASE OF E         O       EMERGENCY         R       PRINTED/TYPI         SIGNATURE       SIGNATURE         D       F         I       A         P       PRINTED/TYPI         SIGNATURE       Lea         D       F         I       A         P       PERMIT NO.	SE FED#1	XeD 3	35,520							
A 12. COMMENT 32. COMMENT 34. SHORT FU 14. SHORT FU 14. IA SHORT FU 14. IA SLAUG 15.GENERA' shipping name and international and R PRINTED/TYPH T 16. R A NAME: N TEXAS I.D. NO S IN CASE OF E O EMERGENCY R IS. TRANSP F PRINTED/TYP S IGNATURE D F I A S C PERMIT NO.	SE FED#1		Didd()							
A SHORT FU 14. 14. NAME KIN SLAUG 15.GENERA' shipping name at international and R PRINTED/TYPE T 16. R NAME: N TEXAS I.D. NO S IN CASE OF E O EMERGENCY 18. TRANSP E PRINTED/TYPE S IGNATURE D F I A S C PERMIT NO.	SE FED#1		The is			13. WASTE P	ROFILE N	0		
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O shipping name as international and PRINTED/TYPH T 16. R NAME: N TEXAS I.D. NO S IN CASE OF E O EMERGENCY I 8. TRANSP E PRINTED/TYP R S SIGNATURE D F I A S C PERMIT NO.	HTER	NAME DUONE NO 24 HOLD EMEDICENCY N								
R       16.         R       NAME:         N       TEXAS I.D. NO         S       IN CASE OF E         O       EMERGENCY         R       18. TRANSP         F       PRINTED/TYP         S       SIGNATURE         D       F         I       A         S       C	TOR'S CERTIFICATION: nd are classified, packed, marked, an l national government regulations, in	nd labeled, and are in a	all respects in proper co	ondition fo	r transport l	oy highway acc	ording to a	pplicable		
R     NAME:       N     TEXAS I.D. NO       S     IN CASE OF E       O     EMERGENCY       IS. TRANSP       PRINTED/TYP       S     SIGNATURE	ED NAME		SIGNATURE					DATE		
A NAME: N TEXAS I.D. NO P IN CASE OF E O EMERGENCY 18. TRANSP F PRINTED/TYP R SIGNATURE D F I A S C PERMIT NO.	16. <b>TRANSPORTER (1)</b> 17.			TRANSPORTER (2)						
N TEXAS I.D. NO S IN CASE OF E O EMERGENCY I8. TRANSP I8. TRANSP PRINTED/TYP SIGNATURE S SIGNATURE Lea S C PERMIT NO.	NAME: SDR ENTERPRISE LLC									
P IN CASE OF E O EMERGENCY IS. TRANSP IS. TRANSP PRINTED/TYP R SIGNATURE I A S C PERMIT NO.	D.		TEXAS I.D. NO.							
R EMERGENCY T 18. TRANSP PRINTED/TYP S SIGNATURE D F I A S C PERMIT NO.	MERGENCY CONTACT:	SHANNON	IN CASE OF EMERGENCY CONTACT:							
T 18. TRANSP E PRINTED/TYP S SIGNATURE D F I A S C PERMIT NO.	EMERGENCY PHONE: (575) 441-7330 EMERGENCY PHONE:									
R S SIGNATURE D F I A S C PERMIT NO.						DRTER (2): Acknowledgment of receipt of material				
S SIGNATURE	PRINTED/TYPED NAME K MTIS (arrada PRINTED/TYPE				D NAME					
D F I A S C PERMIT NO.	SIGNATURE ANULANULATE 12/9/2015 SIGNATURE DA						DATE			
D F I A S C PERMIT NO.	1	ADDRESS:				PHONE:				
I A S C PERMIT NO.	Lea Land, LLC Mile Marker 64, U					· · · ·				
30	30 Miles East of 0       PERMIT NO.       20. COMMENTS			arisbac	, INIVI					
* * 1		WM-01-035 - New Mexico								
	WM-01-035 - New Me		21. <b>DISPOSAL FACILITY'S CERTIFICATION:</b> 1 Hereby certify that the abov facility is authorized and permitted to receive such wastes.				his facility,	that the		
L Y AUTHORIZED	L FACILITY'S CERTIFIC	CATION: 1 Hereby	certify that the above		DATE TI					
Mont	L FACILITY'S CERTIFIC	CATION: 1 Hereby	CELL NO.		DATE		ТД	ME		

IFATAND DISDOGAL SITE NEW MEVICO													
LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048													
	LEA LA 1300 WEST MAIN STREET • OKLAHON	<b>ND, LLC</b> 4A CITY, OK 73106 • 1	PHONE (4	05) 236-42	257 Tri	DIe	m						
NON	-HAZARDOUS WASTE MANIFEST NO	112509	1. PAC	GEOF_	2. TRAIL	ER NO.	#150						
	3. COMPANY NAME 4, ADDRESS						5. PICK-UP DATE						
G	E.O.G Resources 6500 Champion Dr. PHONE NO. CITY STATE			12/0/2015 ZIP 6. TNRCC I.D. NO.									
		Midland TX.			79708								
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONT	TAINERS	9. TOTAL	10. UNIT	11. TEXAS						
	aNon-Regulated, Non Hazardous Waste		No.	Type CM	QUANTITY	Wt/Vol. Y	WASTE ID #						
				0101									
	b.												
E	c												
	WT: NE DOD C IIIIM				· · · · · · · · · · · · · · · · · · ·								
R	12 COMMENTS OR SPECIAL INSTRUCTIONS				13. WASTE P	POEILE N							
3	SHORT FUSE FED # 1	10 0	$\partial \Omega r$	Nr.	ID. WADIDI	NOT IEE N	0.						
A	104	ANDO	1,41	$\omega$									
	14. IN CASE OF EMER NAME PHONE NO	GENCY OR SPIL	LL, CON	TACT	24-HOUR EMERGENCY NO.								
Т	KIN SLAUGHTER 575-887-404	3											
0	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by propriation international 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, LL												
R													
Т	16. TRANSPORTER (1)	17.	TF	ANSPO	ORTER (2)	and the state of the							
R	NAME: SDR ENTERPRISE LLC	NAME:											
A N	TEXAS I.D. NO	TEXAS I.D. NO.											
S P	IN CASE OF EMERGENCY CONTACT: SHANNON												
r O	EMERGENCY PHONE: (575) 441-7330 EMERGENCY PHONE:												
R T	18. TRANSPORTER (1): Acknowledgment of receipt of materia	<b>DRTER (2):</b> Acknowledgment of receipt of material											
Е	PRINTED/TYPED NAME	ED NAME											
R S	SIGNATURA Evenution Totate 12/9/203 Fonature DATE												
<u> </u>	ADDRESS:				PHONE:								
		ile Marker 64, U	J.S. Hw	y 62/18	30,	575-88	37-4048						
D F I A	30 Miles East of Carlsbad, NM												
S C P I	PERMIT NO. WM-01-035 - New Mexico 20. COMMENTS												
S I A T	21. <b>DISPOSAL FACILITY'S CERTIFICATION:</b> I Heret facility is authorized and permitted to receive such wastes.	by certify that the above	described	wastes we	re delivered to t	his facility,	that the						
LY	AUTHORIZED SIGNATURE			DATE 21/9/2015 7.10									
GENER	ATOR: COPIES 1 & 6 DISPOSAL S	ITE: COPIES 2 & 3			TRANS	PORTERS:	COPIES 4 & 5						