

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Great Western Drilling	Contact	Cullan Keller / Ralph Skinner Jr.
Address	PO Box 1659	Telephone No.	505-320-8504 / 575-942-1294
Facility Name	Atlantic C # 101	Facility Type	Tank Battery

Surface Owner	Mineral Owner	API No.	30-045-25339
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	6	30N	10W	790'	FNL	1120'	FEL	San Juan

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	11 BO	Volume Recovered	6 BO
Source of Release	Oil Tank	Date and Hour of Occurrence	3-12-17	Date and Hour of Discovery	3-13-17 @ 7:35am
Was Immediate Notice Given?	☐ Yes ☐ No ☐ Not Required	If YES, To Whom?	Vanessa w/ NMOCD and BLM		
By Whom?	Cullan Keller	Date and Hour	3-13-17 @ 8:30am		
Was a Watercourse Reached?	☐ Yes ☐ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

OIL CONS. DIV DIST. 3

AUG 31 2017

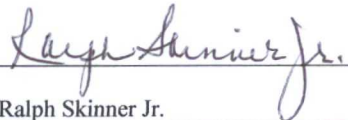
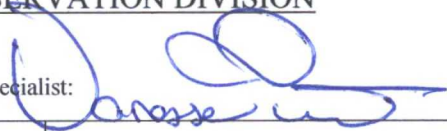
Describe Cause of Problem and Remedial Action Taken

Oil tank was shot with rifle causing 11BO to spill inside firewall at the tank battery. A vac truck was called out to pick up spill. 6BO was recovered.

Describe Area Affected and Cleanup Action Taken.*

Area affected was dirt and gravel around tanks. A gang was called out to dig and remove contaminated soil. Soil was placed on plastic which will be hauled off to an authorized disposal.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Ralph Skinner Jr.	Approved by Environmental Specialist: 	
Title: Production Supervisor	Approval Date: 9/14/2017	Expiration Date:
E-mail Address: rskinner@gwdc.com	Conditions of Approval:	Attached ☐
Date: 3-16-17 Phone: 575-942-1294		

* Attach Additional Sheets If Necessary

NVF1707256194

116



Analytical Report

Report Summary

Client: Great Western Drilling

Chain Of Custody Number:

Samples Received: 8/14/2017 12:05:00PM

Job Number: 99010-0019

Work Order: P708044

Project Name/Location: Atlantic C #101

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman'.

Date: 8/23/17

Walter Hinchman, Laboratory Director

A handwritten signature in black ink, appearing to read 'Tim Cain'.

Date: 8/23/17

Tim Cain, Quality Assurance Officer

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Great Western Drilling
7415 E. Main St.
Farmington NM, 87401

Project Name: Atlantic C #101
Project Number: 99010-0019
Project Manager: Felipe Aragon

Reported:
23-Aug-17 14:06

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Bottom 1	P708044-01A	Soil	08/14/17	08/14/17	Glass Jar, 4 oz.
E. Wall 1	P708044-02A	Soil	08/14/17	08/14/17	Glass Jar, 4 oz.
S. Wall 1	P708044-03A	Soil	08/14/17	08/14/17	Glass Jar, 4 oz.
W. Wall 1	P708044-04A	Soil	08/14/17	08/14/17	Glass Jar, 4 oz.
S. Wall 2	P708044-05A	Soil	08/14/17	08/14/17	Glass Jar, 4 oz.
N. Wall 2	P708044-06A	Soil	08/14/17	08/14/17	Glass Jar, 4 oz.
Bottom 2	P708044-07A	Soil	08/14/17	08/14/17	Glass Jar, 4 oz.
E. Wall 2	P708044-08A	Soil	08/14/17	08/14/17	Glass Jar, 4 oz.

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5796 US Highway 64, Farmington, NM 87401

Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879

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Great Western Drilling	Project Name:	Atlantic C #101	Reported:
7415 E. Main St.	Project Number:	99010-0019	23-Aug-17 14:06
Farmington NM, 87401	Project Manager:	Felipe Aragon	

Bottom 1
P708044-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		94.1 %		50-150	1733014	08/16/17	08/18/17	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1733013	08/16/17	08/17/17	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1733013	08/16/17	08/17/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %		50-150	1733014	08/16/17	08/18/17	EPA 8015D	
Surrogate: n-Nonane		96.5 %		50-200	1733013	08/16/17	08/17/17	EPA 8015D	

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Great Western Drilling 7415 E. Main St. Farmington NM, 87401	Project Name: Atlantic C #101 Project Number: 99010-0019 Project Manager: Felipe Aragon	Reported: 23-Aug-17 14:06
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**E. Wall 1
P708044-02 (Solid)**

Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Volatile Organics by EPA 8021								
Benzene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Toluene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Ethylbenzene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
p,m-Xylene	ND	0.20	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
o-Xylene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Total Xylenes	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Total BTEX	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Surrogate: 4-Bromochlorobenzene-PID		95.2 %		50-150	1733014	08/16/17	08/18/17	EPA 8021B
Nonhalogenated Organics by 8015								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8015D
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1733013	08/16/17	08/17/17	EPA 8015D
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1733013	08/16/17	08/17/17	EPA 8015D
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.8 %		50-150	1733014	08/16/17	08/18/17	EPA 8015D
Surrogate: n-Nonane		96.9 %		50-200	1733013	08/16/17	08/17/17	EPA 8015D

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Great Western Drilling	Project Name:	Atlantic C #101	Reported:
7415 E. Main St.	Project Number:	99010-0019	23-Aug-17 14:06
Farmington NM, 87401	Project Manager:	Felipe Aragon	

**S. Wall 1
P708044-03 (Solid)**

Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method

Volatile Organics by EPA 8021

Benzene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Toluene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Ethylbenzene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
p,m-Xylene	ND	0.20	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
o-Xylene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Total Xylenes	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Total BTEX	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Surrogate: 4-Bromochlorobenzene-PID	94.4 %	50-150			1733014	08/16/17	08/18/17	EPA 8021B

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8015D
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1733013	08/16/17	08/17/17	EPA 8015D
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1733013	08/16/17	08/17/17	EPA 8015D
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.2 %	50-150			1733014	08/16/17	08/18/17	EPA 8015D
Surrogate: n-Nonane	95.6 %	50-200			1733013	08/16/17	08/17/17	EPA 8015D

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Great Western Drilling 7415 E. Main St. Farmington NM, 87401	Project Name: Atlantic C #101 Project Number: 99010-0019 Project Manager: Felipe Aragon	Reported: 23-Aug-17 14:06
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**W. Wall 1
P708044-04 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		94.9 %		50-150	1733014	08/16/17	08/18/17	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1733013	08/16/17	08/17/17	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1733013	08/16/17	08/17/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.2 %		50-150	1733014	08/16/17	08/18/17	EPA 8015D	
Surrogate: n-Nonane		99.2 %		50-200	1733013	08/16/17	08/17/17	EPA 8015D	

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Great Western Drilling
7415 E. Main St.
Farmington NM, 87401

Project Name: Atlantic C #101
Project Number: 99010-0019
Project Manager: Felipe Aragon

Reported:
23-Aug-17 14:06

S. Wall 2
P708044-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		95.2 %		50-150	1733014	08/16/17	08/18/17	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1733013	08/16/17	08/17/17	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1733013	08/16/17	08/17/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.1 %		50-150	1733014	08/16/17	08/18/17	EPA 8015D	
Surrogate: n-Nonane		97.0 %		50-200	1733013	08/16/17	08/17/17	EPA 8015D	

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Great Western Drilling	Project Name:	Atlantic C #101	Reported:
7415 E. Main St.	Project Number:	99010-0019	23-Aug-17 14:06
Farmington NM, 87401	Project Manager:	Felipe Aragon	

**N. Wall 2
P708044-06 (Solid)**

Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Volatile Organics by EPA 8021								
Benzene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Toluene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Ethylbenzene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
p,m-Xylene	ND	0.20	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
o-Xylene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Total Xylenes	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Total BTEX	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Surrogate: 4-Bromochlorobenzene-PID		93.7 %		50-150	1733014	08/16/17	08/18/17	EPA 8021B
Nonhalogenated Organics by 8015								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8015D
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1733013	08/16/17	08/17/17	EPA 8015D
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1733013	08/16/17	08/17/17	EPA 8015D
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %		50-150	1733014	08/16/17	08/18/17	EPA 8015D
Surrogate: n-Nonane		94.6 %		50-200	1733013	08/16/17	08/17/17	EPA 8015D

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Great Western Drilling 7415 E. Main St. Farmington NM, 87401	Project Name: Atlantic C #101 Project Number: 99010-0019 Project Manager: Felipe Aragon	Reported: 23-Aug-17 14:06
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Bottom 2
P708044-07 (Solid)

Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Volatile Organics by EPA 8021								
Benzene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Toluene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Ethylbenzene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
p,m-Xylene	ND	0.20	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
o-Xylene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Total Xylenes	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Total BTEX	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B
Surrogate: 4-Bromochlorobenzene-PID		93.4 %		50-150	1733014	08/16/17	08/18/17	EPA 8021B
Nonhalogenated Organics by 8015								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8015D
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1733013	08/16/17	08/17/17	EPA 8015D
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1733013	08/16/17	08/17/17	EPA 8015D
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %		50-150	1733014	08/16/17	08/18/17	EPA 8015D
Surrogate: n-Nonane		88.7 %		50-200	1733013	08/16/17	08/17/17	EPA 8015D

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Great Western Drilling
7415 E. Main St.
Farmington NM, 87401

Project Name: Atlantic C #101
Project Number: 99010-0019
Project Manager: Felipe Aragon

Reported:
23-Aug-17 14:06

**E. Wall 2
P708044-08 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %		50-150	1733014	08/16/17	08/18/17	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1733014	08/16/17	08/18/17	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1733013	08/16/17	08/17/17	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1733013	08/16/17	08/17/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.1 %		50-150	1733014	08/16/17	08/18/17	EPA 8015D	
Surrogate: n-Nonane		95.1 %		50-200	1733013	08/16/17	08/17/17	EPA 8015D	

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Great Western Drilling
7415 E. Main St.
Farmington NM, 87401

Project Name: Atlantic C #101
Project Number: 99010-0019
Project Manager: Felipe Aragon

Reported:
23-Aug-17 14:06

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1733014 - Purge and Trap EPA 5030A

Blank (1733014-BLK1)

Prepared & Analyzed: 15-Aug-17

Benzene	ND	0.10	mg/kg
Toluene	ND	0.10	"
Ethylbenzene	ND	0.10	"
p,m-Xylene	ND	0.20	"
o-Xylene	ND	0.10	"
Total Xylenes	ND	0.10	"
Total BTEX	ND	0.10	"

Surrogate: 4-Bromochlorobenzene-PID 7.93 " 8.00 99.1 50-150

LCS (1733014-BS1)

Prepared & Analyzed: 15-Aug-17

Benzene	4.78	0.10	mg/kg	5.00		95.6	70-130
Toluene	4.70	0.10	"	5.00		94.1	70-130
Ethylbenzene	4.69	0.10	"	5.00		93.9	70-130
p,m-Xylene	9.33	0.20	"	10.0		93.4	70-130
o-Xylene	4.60	0.10	"	5.00		92.0	70-130
Total Xylenes	13.9	0.10	"	15.0		92.9	70-130

Surrogate: 4-Bromochlorobenzene-PID 7.84 " 8.00 98.0 50-150

Matrix Spike (1733014-MS1)

Source: P708046-01

Prepared & Analyzed: 15-Aug-17

Benzene	4.87	0.10	mg/kg	5.00	ND	97.4	54.3-133
Toluene	4.81	0.10	"	5.00	ND	96.2	61.4-130
Ethylbenzene	4.79	0.10	"	5.00	ND	95.8	61.4-133
p,m-Xylene	9.48	0.20	"	10.0	ND	94.8	63.3-131
o-Xylene	4.68	0.10	"	5.00	ND	93.6	63.3-131
Total Xylenes	14.2	0.10	"	15.0	ND	94.4	63.3-131

Surrogate: 4-Bromochlorobenzene-PID 8.75 " 8.00 109 50-150

Matrix Spike Dup (1733014-MSD1)

Source: P708046-01

Prepared & Analyzed: 15-Aug-17

Benzene	4.95	0.10	mg/kg	5.00	ND	98.9	54.3-133	1.59	20
Toluene	4.88	0.10	"	5.00	ND	97.6	61.4-130	1.49	20
Ethylbenzene	4.86	0.10	"	5.00	ND	97.2	61.4-133	1.42	20
p,m-Xylene	9.62	0.20	"	10.0	ND	96.2	63.3-131	1.45	20
o-Xylene	4.74	0.10	"	5.00	ND	94.9	63.3-131	1.38	20
Total Xylenes	14.4	0.10	"	15.0	ND	95.8	63.3-131	1.43	20

Surrogate: 4-Bromochlorobenzene-PID 8.66 " 8.00 108 50-150

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Great Western Drilling	Project Name:	Atlantic C #101	Reported:
7415 E. Main St.	Project Number:	99010-0019	23-Aug-17 14:06
Farmington NM, 87401	Project Manager:	Felipe Aragon	

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1733013 - DRO Extraction EPA 3570										
Blank (1733013-BLK1)				Prepared & Analyzed: 16-Aug-17						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	50.5		"	50.0		101	50-200			
LCS (1733013-BS1)				Prepared & Analyzed: 16-Aug-17						
Diesel Range Organics (C10-C28)	483	25.0	mg/kg	500		96.6	38-132			
Surrogate: n-Nonane	50.1		"	50.0		100	50-200			
Matrix Spike (1733013-MS1)				Source: P708046-01		Prepared & Analyzed: 16-Aug-17				
Diesel Range Organics (C10-C28)	5260	50.0	mg/kg	500	4800	91.4	38-132			
Surrogate: n-Nonane	55.8		"	50.0		112	50-200			
Matrix Spike Dup (1733013-MSD1)				Source: P708046-01		Prepared & Analyzed: 16-Aug-17				
Diesel Range Organics (C10-C28)	5530	50.0	mg/kg	500	4800	146	38-132	5.04	20	SPK2
Surrogate: n-Nonane	54.3		"	50.0		109	50-200			

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Great Western Drilling 7415 E. Main St. Farmington NM, 87401	Project Name: Atlantic C #101 Project Number: 99010-0019 Project Manager: Felipe Aragon	Reported: 23-Aug-17 14:06
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Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1733014 - Purge and Trap EPA 5030A										
Blank (1733014-BLK1)				Prepared & Analyzed: 15-Aug-17						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		"	8.00		98.2	50-150			
LCS (1733014-BS1)				Prepared & Analyzed: 15-Aug-17						
Gasoline Range Organics (C6-C10)	56.3	20.0	mg/kg	60.9		92.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		"	8.00		97.9	50-150			
Matrix Spike (1733014-MS1)				Source: P708046-01	Prepared & Analyzed: 15-Aug-17					
Gasoline Range Organics (C6-C10)	60.6	20.0	mg/kg	60.9	ND	99.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		"	8.00		94.6	50-150			
Matrix Spike Dup (1733014-MSD1)				Source: P708046-01	Prepared & Analyzed: 15-Aug-17					
Gasoline Range Organics (C6-C10)	62.4	20.0	mg/kg	60.9	ND	103	70-130	2.93	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		"	8.00		96.0	50-150			

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Great Western Drilling
7415 E. Main St.
Farmington NM, 87401

Project Name: Atlantic C #101
Project Number: 99010-0019
Project Manager: Felipe Aragon

Reported:
23-Aug-17 14:06

Notes and Definitions

SPK2 The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to native analyte concentration at 4 times or greater than the spike concentration.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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Project Information

Chain of Custody

Page 1 of 1

Client: <u>Great Western</u>		Report Attention: <u>ES</u>		Lab Use Only		TAT		EPA Program				
Project: <u>Atlantic C#101</u>		Report due by: <u>Friday 8/14/17</u>		Lab WO# <u>P708044</u>		Job Number <u>99010-009</u>		1D	3D	RCRA	CWA	SDWA
Project Manager: <u>Felipe Aragon</u>		Attention: <u>Esac</u>								<u>X</u>		
Address:		Address:								State		
City, State, Zip:		City, State, Zip:								NM CO UT AZ		
Phone:		Phone:										
Email: <u>Esac / Felipe</u>		Email:										

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chlorides 300.0	TPH 418.1	Remarks
9:11	8/14/17	S	1	Bottom 1	1	X	X	X					4oz G jar
9:18	8/14/17	S	1	E. Wall 1	2	X	X	X					
9:24	8/14/17	S	1	S. Wall 1	3	X	X	X					
9:31	8/14/17	S	1	W. Wall 1	4	X	X	X					
9:34	8/14/17	S	1	S. Wall 2	5	X	X	X					
9:39	8/14/17	S	1	N. Wall 2	6	X	X	X					
9:46	8/14/17	S	1	Bottom 2	7	X	X	X					
9:54	8/14/17	S	1	E. Wall 2	8	X	X	X					

Additional Instructions: Visible ice in cooler

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Esac Garcia

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>[Signature]</u>	8/14/17	12:03	<u>[Signature]</u>	8-14-17	12:05	Received on ice: <u>Y</u> / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
						AVG Temp °C <u>4.0</u>

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.