

## Norris Environmental

Sample Delivery Group:	L854543	REM 9772
Samples Received:	08/19/2016	Location ID 312558
Project Number:	FED 2-24-81	Pit Facility ID 119445
Description:	National Fuel Corp Fed 2-24-81 Pit	Document 2527039
Site:	FED 2-24-81 PIT	
Report To:	Sean Norris	
	778 23rd Road	
	Grand Junction, CO 81505	

Entire Report Reviewed By:



Shane Gambill  
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b><sup>1</sup>Cp: Cover Page</b>	<b>1</b>
<b><sup>2</sup>Tc: Table of Contents</b>	<b>2</b>
<b><sup>3</sup>Ss: Sample Summary</b>	<b>3</b>
<b><sup>4</sup>Cn: Case Narrative</b>	<b>4</b>
<b><sup>5</sup>Sr: Sample Results</b>	<b>5</b>
NFC-FED-2-24-81-N-02    L854543-01	5
NFC-FED-2-24-81-E-02    L854543-02	6
NFC-FED-2-24-81-S-02    L854543-03	7
NFC-FED-2-24-81-W-02    L854543-04	8
NFC-FED-2-24-81-BTM-02    L854543-05	9
NFC-FED-2-24-81-ETS-02    L854543-06	10
<b><sup>6</sup>Qc: Quality Control Summary</b>	<b>11</b>
Volatile Organic Compounds (GC) by Method 8015/8021	11
Semi-Volatile Organic Compounds (GC) by Method 8015	13
<b><sup>7</sup>Gl: Glossary of Terms</b>	<b>14</b>
<b><sup>8</sup>Al: Accreditations &amp; Locations</b>	<b>15</b>
<b><sup>9</sup>Sc: Chain of Custody</b>	<b>16</b>



# SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



## NFC-FED-2-24-81-N-02 L854543-01 Solid

Collected by  
Sean T. Norris

Collected date/time  
08/18/16 12:00

Received date/time  
08/19/16 09:00

<sup>1</sup> Cp

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015	WG900567	1	08/19/16 23:14	08/20/16 10:30	DMG
Volatile Organic Compounds (GC) by Method 8015/8021	WG900640	1	08/20/16 14:28	08/20/16 17:20	DWR

<sup>2</sup> Tc

<sup>3</sup> Ss

## NFC-FED-2-24-81-E-02 L854543-02 Solid

Collected by  
Sean T. Norris

Collected date/time  
08/18/16 11:42

Received date/time  
08/19/16 09:00

<sup>4</sup> Cn

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015	WG900567	1	08/19/16 23:14	08/20/16 10:41	DMG
Volatile Organic Compounds (GC) by Method 8015/8021	WG900640	1	08/20/16 14:28	08/20/16 17:41	DWR

<sup>5</sup> Sr

<sup>6</sup> Qc

## NFC-FED-2-24-81-S-02 L854543-03 Solid

Collected by  
Sean T. Norris

Collected date/time  
08/18/16 11:50

Received date/time  
08/19/16 09:00

<sup>7</sup> Gl

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015	WG900567	1	08/19/16 23:14	08/20/16 10:52	DMG
Volatile Organic Compounds (GC) by Method 8015/8021	WG900640	1	08/20/16 14:28	08/20/16 18:01	DWR

<sup>8</sup> Al

<sup>9</sup> Sc

## NFC-FED-2-24-81-W-02 L854543-04 Solid

Collected by  
Sean T. Norris

Collected date/time  
08/18/16 11:36

Received date/time  
08/19/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015	WG900567	1	08/19/16 23:14	08/20/16 11:03	DMG
Volatile Organic Compounds (GC) by Method 8015/8021	WG900640	1	08/20/16 14:28	08/20/16 18:22	DWR

## NFC-FED-2-24-81-BTM-02 L854543-05 Solid

Collected by  
Sean T. Norris

Collected date/time  
08/18/16 11:09

Received date/time  
08/19/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015	WG900567	1	08/19/16 23:14	08/20/16 11:14	DMG
Volatile Organic Compounds (GC) by Method 8015/8021	WG900640	1	08/20/16 14:28	08/20/16 18:43	DWR

## NFC-FED-2-24-81-ETS-02 L854543-06 Solid

Collected by  
Sean T. Norris

Collected date/time  
08/18/16 12:15

Received date/time  
08/19/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015	WG900567	2	08/19/16 23:14	08/20/16 12:55	DMG
Volatile Organic Compounds (GC) by Method 8015	WG900640	24	08/20/16 14:28	08/22/16 15:24	ACG
Volatile Organic Compounds (GC) by Method 8021	WG900640	1	08/20/16 14:28	08/20/16 19:04	DWR



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Shane Gambill  
Technical Service Representative

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



## Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND	<a href="#">J3 J6</a>	0.000500	1	08/20/2016 17:20	<a href="#">WG900640</a>
Toluene	ND	<a href="#">J3 J6</a>	0.00500	1	08/20/2016 17:20	<a href="#">WG900640</a>
Ethylbenzene	0.00127	<a href="#">J3 J6</a>	0.000500	1	08/20/2016 17:20	<a href="#">WG900640</a>
Total Xylene	0.0484	<a href="#">J3 J6</a>	0.00150	1	08/20/2016 17:20	<a href="#">WG900640</a>
TPH (GC/FID) Low Fraction	3.82	<a href="#">J3 J6</a>	0.100	1	08/20/2016 17:20	<a href="#">WG900640</a>
(S) a,a,a-Trifluorotoluene(FID)	102		59.0-128		08/20/2016 17:20	<a href="#">WG900640</a>
(S) a,a,a-Trifluorotoluene(PID)	102		54.0-144		08/20/2016 17:20	<a href="#">WG900640</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	55.7		4.00	1	08/20/2016 10:30	<a href="#">WG900567</a>
(S) o-Terphenyl	75.5		50.0-150		08/20/2016 10:30	<a href="#">WG900567</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	08/20/2016 17:41	<a href="#">WG900640</a>
Toluene	ND		0.00500	1	08/20/2016 17:41	<a href="#">WG900640</a>
Ethylbenzene	ND		0.000500	1	08/20/2016 17:41	<a href="#">WG900640</a>
Total Xylene	ND		0.00150	1	08/20/2016 17:41	<a href="#">WG900640</a>
TPH (GC/FID) Low Fraction	ND		0.100	1	08/20/2016 17:41	<a href="#">WG900640</a>
(S) a,a,a-Trifluorotoluene(FID)	102		59.0-128		08/20/2016 17:41	<a href="#">WG900640</a>
(S) a,a,a-Trifluorotoluene(PID)	102		54.0-144		08/20/2016 17:41	<a href="#">WG900640</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	ND		4.00	1	08/20/2016 10:41	<a href="#">WG900567</a>
(S) o-Terphenyl	72.6		50.0-150		08/20/2016 10:41	<a href="#">WG900567</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	08/20/2016 18:01	<a href="#">WG900640</a>
Toluene	ND		0.00500	1	08/20/2016 18:01	<a href="#">WG900640</a>
Ethylbenzene	ND		0.000500	1	08/20/2016 18:01	<a href="#">WG900640</a>
Total Xylene	0.00227		0.00150	1	08/20/2016 18:01	<a href="#">WG900640</a>
TPH (GC/FID) Low Fraction	0.630		0.100	1	08/20/2016 18:01	<a href="#">WG900640</a>
(S) a,a,a-Trifluorotoluene(FID)	102		59.0-128		08/20/2016 18:01	<a href="#">WG900640</a>
(S) a,a,a-Trifluorotoluene(PID)	102		54.0-144		08/20/2016 18:01	<a href="#">WG900640</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	5.34		4.00	1	08/20/2016 10:52	<a href="#">WG900567</a>
(S) o-Terphenyl	61.0		50.0-150		08/20/2016 10:52	<a href="#">WG900567</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	08/20/2016 18:22	<a href="#">WG900640</a>
Toluene	ND		0.00500	1	08/20/2016 18:22	<a href="#">WG900640</a>
Ethylbenzene	ND		0.000500	1	08/20/2016 18:22	<a href="#">WG900640</a>
Total Xylene	ND		0.00150	1	08/20/2016 18:22	<a href="#">WG900640</a>
TPH (GC/FID) Low Fraction	ND		0.100	1	08/20/2016 18:22	<a href="#">WG900640</a>
(S) a,a,a-Trifluorotoluene(FID)	102		59.0-128		08/20/2016 18:22	<a href="#">WG900640</a>
(S) a,a,a-Trifluorotoluene(PID)	102		54.0-144		08/20/2016 18:22	<a href="#">WG900640</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	ND		4.00	1	08/20/2016 11:03	<a href="#">WG900567</a>
(S) o-Terphenyl	66.0		50.0-150		08/20/2016 11:03	<a href="#">WG900567</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





## Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	08/20/2016 18:43	<a href="#">WG900640</a>
Toluene	ND		0.00500	1	08/20/2016 18:43	<a href="#">WG900640</a>
Ethylbenzene	ND		0.000500	1	08/20/2016 18:43	<a href="#">WG900640</a>
Total Xylene	ND		0.00150	1	08/20/2016 18:43	<a href="#">WG900640</a>
TPH (GC/FID) Low Fraction	ND		0.100	1	08/20/2016 18:43	<a href="#">WG900640</a>
(S) a,a,a-Trifluorotoluene(FID)	102		59.0-128		08/20/2016 18:43	<a href="#">WG900640</a>
(S) a,a,a-Trifluorotoluene(PID)	102		54.0-144		08/20/2016 18:43	<a href="#">WG900640</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	ND		4.00	1	08/20/2016 11:14	<a href="#">WG900567</a>
(S) o-Terphenyl	73.6		50.0-150		08/20/2016 11:14	<a href="#">WG900567</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.000686		0.000500	1	08/20/2016 19:04	<a href="#">WG900640</a>
Toluene	0.00665		0.00500	1	08/20/2016 19:04	<a href="#">WG900640</a>
Ethylbenzene	0.0175		0.000500	1	08/20/2016 19:04	<a href="#">WG900640</a>
Total Xylene	0.530		0.00150	1	08/20/2016 19:04	<a href="#">WG900640</a>
TPH (GC/FID) Low Fraction	71.7		2.40	24	08/22/2016 15:24	<a href="#">WG900640</a>
(S) a,a,a-Trifluorotoluene(FID)	96.8		59.0-128		08/22/2016 15:24	<a href="#">WG900640</a>
(S) a,a,a-Trifluorotoluene(FID)	99.7		59.0-128		08/20/2016 19:04	<a href="#">WG900640</a>
(S) a,a,a-Trifluorotoluene(PID)	101		54.0-144		08/20/2016 19:04	<a href="#">WG900640</a>
(S) a,a,a-Trifluorotoluene(PID)	105		54.0-144		08/22/2016 15:24	<a href="#">WG900640</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	438		8.00	2	08/20/2016 12:55	<a href="#">WG900567</a>
(S) o-Terphenyl	78.1		50.0-150		08/20/2016 12:55	<a href="#">WG900567</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3158255-4 08/20/16 13:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000154	J	0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID) 103			59.0-128	
(S) a,a,a-Trifluorotoluene(PID) 102			54.0-144	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3158255-1 08/20/16 11:38 • (LCSD) R3158255-5 08/20/16 13:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0481	0.0479	96.3	95.9	70.0-130			0.420	20
Toluene	0.0500	0.0498	0.0495	99.7	98.9	70.0-130			0.770	20
Ethylbenzene	0.0500	0.0492	0.0486	98.3	97.3	70.0-130			1.07	20
Total Xylene	0.150	0.155	0.153	103	102	70.0-130			1.27	20
(S) a,a,a-Trifluorotoluene(FID)				103	102	59.0-128				
(S) a,a,a-Trifluorotoluene(PID)				106	106	54.0-144				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3158255-2 08/20/16 11:59 • (LCSD) R3158255-3 08/20/16 12:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.33	6.19	115	113	63.5-137			2.21	20
(S) a,a,a-Trifluorotoluene(FID)				106	106	59.0-128				
(S) a,a,a-Trifluorotoluene(PID)				110	109	54.0-144				

L854543-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L854543-01 08/20/16 17:20 • (MS) R3158255-6 08/20/16 20:07 • (MSD) R3158255-7 08/20/16 20:28

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	ND	0.00582	0.0199	11.3	39.5	1	49.7-127	J6	J3 J6	110	23.5
Toluene	0.0500	ND	0.00284	0.0140	4.28	26.7	1	49.8-132	J6	J3 J6	133	23.5
Ethylbenzene	0.0500	0.00127	0.000894	0.00928	0.000	16.0	1	40.8-141	J6	J3 J6	165	23.8
Total Xylene	0.150	0.0484	0.00647	0.0334	0.000	0.000	1	41.2-140	J J6	J J3 J6	135	23.7
(S) a,a,a-Trifluorotoluene(FID)					102	102		59.0-128				



L854543-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L854543-01 08/20/16 17:20 • (MS) R3158255-6 08/20/16 20:07 • (MSD) R3158255-7 08/20/16 20:28

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) a,a,a-Trifluorotoluene(PID)					103	104		54.0-144				

L854543-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L854543-01 08/20/16 17:20 • (MS) R3158255-8 08/20/16 20:49 • (MSD) R3158255-9 08/20/16 21:10

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	3.82	0.668	0.244	0.000	0.000	1	28.5-138	J6	J3 J6	93.1	23.6
(S) a,a,a-Trifluorotoluene(FID)					101	99.9		59.0-128				
(S) a,a,a-Trifluorotoluene(PID)					104	96.7		54.0-144				

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc



Method Blank (MB)

(MB) R3158119-1 08/20/16 09:45

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) High Fraction	U		0.769	4.00
(S) o-Terphenyl	80.1			50.0-150

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3158119-2 08/20/16 09:56 • (LCSD) R3158119-3 08/20/16 10:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	60.0	47.6	44.1	79.3	73.5	50.0-150			7.58	20
(S) o-Terphenyl				86.7	78.6	50.0-150				

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



## Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina <sup>1</sup>	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia <sup>1</sup>	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky <sup>1</sup>	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee <sup>14</sup>	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

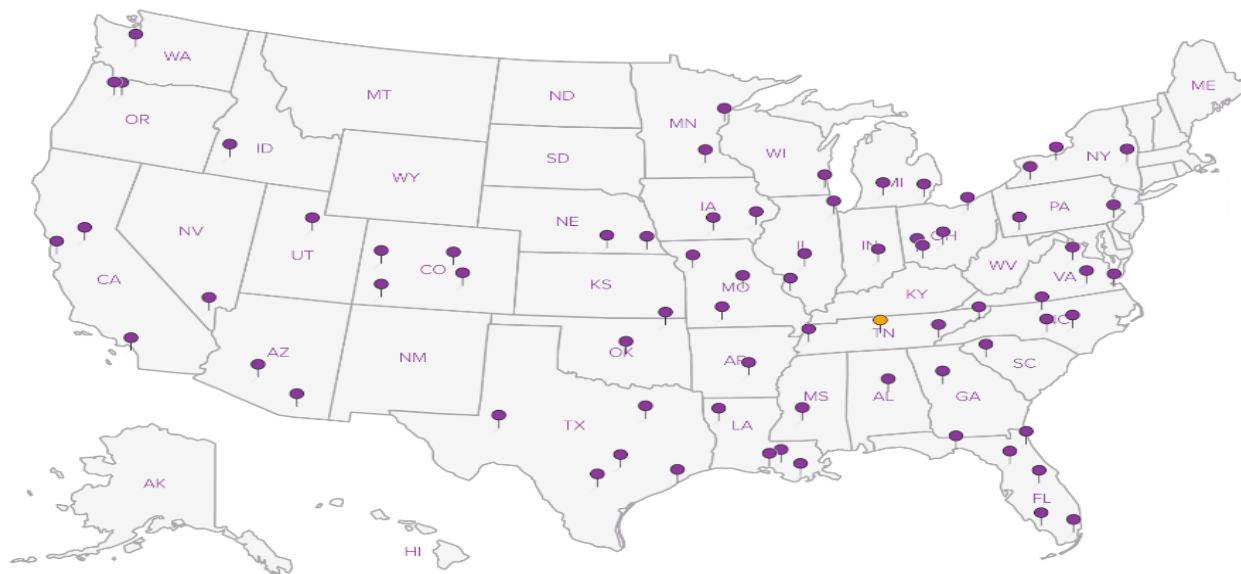
## Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>n/a</sup> Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address: <b>Norris Environmental LLC</b> 778 23 Road Grand Junction, CO 81505						Billing Information: Same													
Report to: <b>Sean T. Norris</b>						Email To: <b>sean@norrisenvironmentalllc.com</b>													
Project Description: <b>National Fuel Corp Fed 2-24-81 Pit</b>						City/State Collected: <b>Mesa County CO</b>													
Phone: <b>970-241-9974</b> Fax:			Client Project # <b>Fed 2-24-81</b>			Lab Project #													
Collected by (print): <b>Sean T. Norris</b>			Site/Facility ID # <b>Fed 2-24-81 Pit</b>			P.O. #													
Collected by (signature): 			<b>Rush? (Lab MUST Be Notified)</b> <input checked="" type="checkbox"/> Same Day .....200% <input checked="" type="checkbox"/> Next Day .....100% <input type="checkbox"/> Two Day .....50% <input type="checkbox"/> Three Day .....25%			Date Results Needed													
Immediately Packed on Ice N ___ Y <input checked="" type="checkbox"/>			Email? ___ No <input checked="" type="checkbox"/> Yes FAX? ___ No ___ Yes			No. of Cntrs													
Sample ID				Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservative									
NFC-Fed 2-24-81-N-02				Grab	SS	20'	8/18/2016	12:00	2	X	BTEX GRO/DRO - 8021/8015	SV8270PAHSIM - 8270SIM	SPCON - 9050AMod	SAR - CALC	RCRA8 Metals + Cu, Ni and Zn - 6010/7470	CR6SS - 3060A/7196	CR3 - CALC	Arsenic	
NFC-Fed 2-24-81-E-02				Grab	SS	20'	8/18/2016	11:42	2	X									
NFC-Fed 2-24-81-S-02				Grab	SS	22'	8/18/2016	11:50	2	X									
NFC-Fed 2-24-81-W-02				Grab	SS	22'	8/18/2016	11:36	2	X									
NFC-Fed 2-24-81-BTM-02				Grab	SS	28'	8/18/2016	11:09	2	X									
NFC-Fed 2-24-81-ETS-02				Comp	SS	6"	8/18/2016	12:15	2	X									
* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____																			
Remarks:																			
Relinquished by : (Signature) 						Date: 8/18/16		Time: 3:30		Received by: (Signature) 						Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> _____		Condition: (lab use only) 	
Relinquished by : (Signature) 						Date: 8/18/16		Time: 12:00		Received by: (Signature) 						Temp: 21°C Bottles Received: 12-402		COC Seal Intact: ___Y___N___NA	
Relinquished by : (Signature) 						Date:		Time:		Received for lab by: (Signature) 						Date: 8/19/16 Time: 0900		pH Checked: NCF:	
6827 1102 9053																			
Hold #																			





YOUR LAB OF CHOICE

## Cooler Receipt Checklist

Client: NORWUGLO SDG# LSVS13

Cooler Received/Opened On: 8/19/10 By Caleb Busby

Temperature Upon Receipt: 2.1 °C Caleb Busby (Signature)

Cooler Receipt Check List			
	Yes	No	N/A
Were custody seals on outside of cooler and intact?			X
Were custody papers properly filled out (ink, signed, etc.)?	X		
Did all bottles arrive in good condition?	X		
Were correct bottles used for the analyses requested?	X		
Was sufficient amount of sample sent in each bottle?	X		
Were correct preservatives used?			X
Were all applicable sample containers checked for preservation?			X
(Any samples not in accepted pH range noted on COC.)			
If applicable, was an observable VOA headspace present?			X
Non Conformance Generated? (If yes see attached NCF)		X	



...Green Technology through  
Innovation

12065 LEBANON ROAD • MOUNT JULIET, TENNESSEE 37122

800.767.5859 • 615.758.5858 • FAX 615.758.5859

www.esclabsciences.com • sales@esclabsciences.com

O-N-E L-A-B



N-A-T-I-O-N-W-I-D-E