

NARRATIVE ATTACHMENT

FORM 4 (SUNDRY NOTICE)

Earthen Pit (Fiberglass Tank) Closure Bar X Unit (Govt 34-1)

Document Date-9/5/2014

Introduction

National Fuel Corporation (NFC) is submitting this Form 4 Sundry Notice to request final closure status for the earthen pit (w/fiberglass tank) associated with the Bar X Unit Govt 34-1 (COGCC facility #119473, COGCC remediation #8338). The site investigation was conducted by a third party contractor as authorized by NFC personnel and in accordance with the approved Form 27 previously submitted for this location. All samples were collected in accordance with NFC's Sampling Procedures. The analytical results for the respective soil samples are provided in Table 1 and Attachment A of this submittal. The text below provides the details of the site investigation. For a visual description of the site please refer to Figures 1, 2, and 3 – Site Maps.

Assessment Activities

August 25, 2014 - The excavated soil surrounding the earthen pit (w/fiberglass tank) was screened utilizing a photoionization detector (PID) prior to collecting soil samples for laboratory analysis. The fiberglass tank was carefully removed using a trackhoe and placed onsite for later recycling or disposal. It should be noted that the fiberglass tank was pumped out prior to removal. A grab sample was collected directly from the lowest point of the pit after excavation. In addition, four (4) grab samples were collected, one from each excavated sidewall. Approximately 100 cubic yards of excavated material was removed from the pit and laid out in 2 foot tall (50' x 25') lift for evaluation of impacts. The excavated material was sampled by way of a nine (9) point composite sample. Four (4) background samples were collected from approximately six (6) inches beneath the grounds surface for analysis with regards to arsenic.

Analytical Review

Sample results indicate that soil within the earthen pit (w/fiberglass tank) footprint on NFC's Bar X Unit #Govt 34-1 well pad, had organic constituent concentrations below or within COGCC Table 910-1. Analytical results indicated the excavated material exceeded COGCC Table 910-1 allowable concentrations for arsenic (4.6 ppm) and SAR (16). Though the arsenic concentration in the soil is above the allowable concentration identified in Table 910-1, the concentration is close to the range of arsenic background values (3.7 – 4.5 ppm) in this area. Based on these results and footnote 1 to COGCC Table 910-1, NFC requests that the COGCC consider the higher range of background arsenic value(s) as the allowable concentration for this constituent. Please see Table 1 and Attachment A for the analytical results.

Though the elevated arsenic and SAR levels of the returned spoil material within the excavated footprint area is above the allowable levels identified in Table 910-1; it will be buried greater than three feet bgs of existing pad footprint material to assure that material with elevated level of arsenic and SAR will have no adverse effect on future re-vegetation efforts and receptors in the area. Please see Table 1 and Attachment A for analytical results.

Conclusion

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Based on the site investigation and analytical results, the pit associated with the Bar X Unit #Govt 34-1 is in compliance with the standards specified within COGCC Table 910-1. NFC respectfully requests that final closure be granted for the respective pit, COGCC remediation #8338.

Notification of Completion

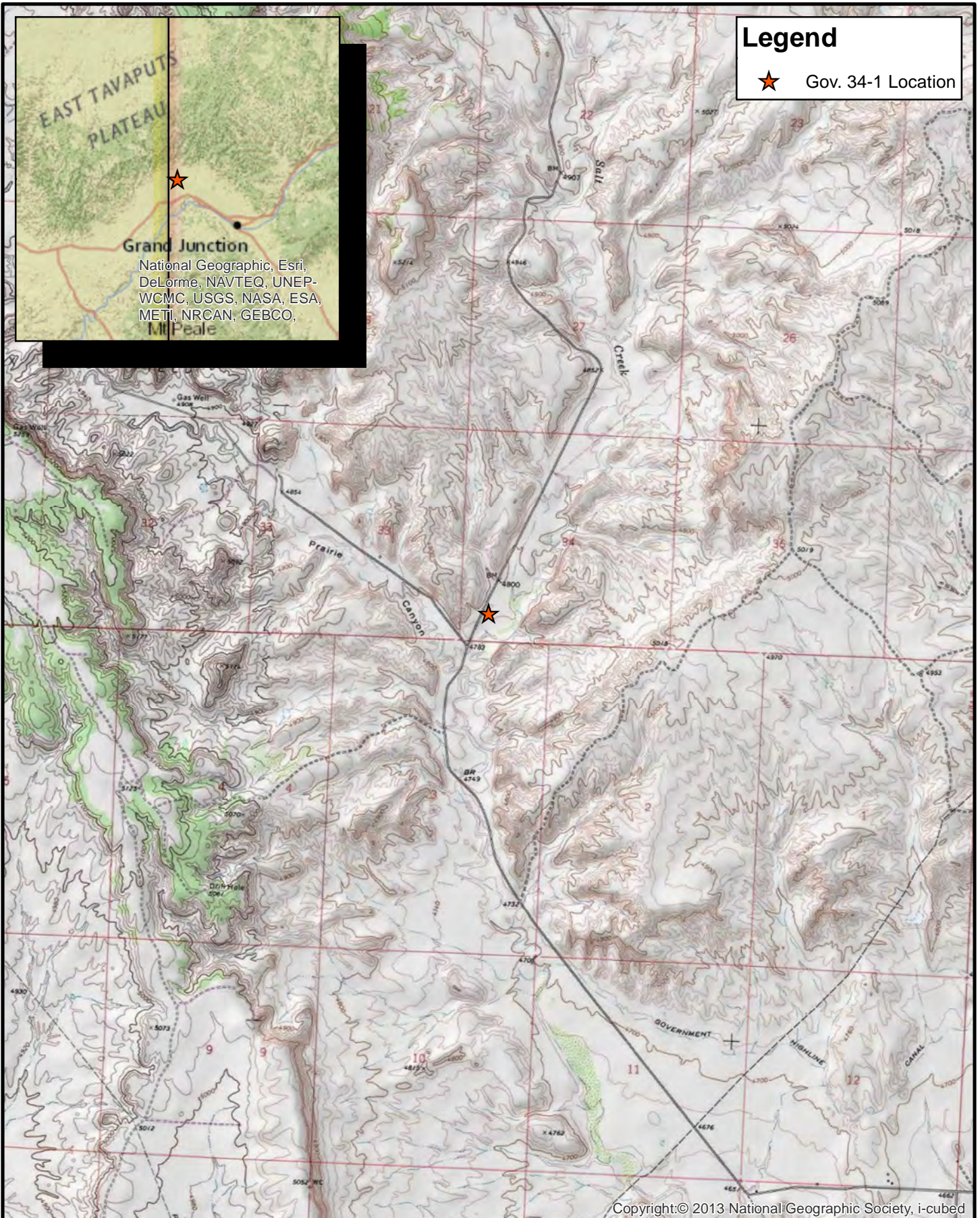
This Sundry Notice is also being submitted as the Notification of Completion for Remediation #8338. If the information provided here is satisfactory, please provide documentation of the closure of this remediation project.

Attachments

Topographic Location Map (Figure 1)
Govt 34-1 Aerial map with sample locations (Figure 2)
Govt 34-1 Site Diagram of Excavation and sample locations (Figure 3)
Laboratory Results Summary Table 1 – Govt 34-1 Site Investigation (Table 1)
Attachment A- Laboratory Reports

Legend

★ Gov. 34-1 Location



Rule Engineering, LLC
Solutions to Regulations for Industry

0 0.25 0.5 0.75 1 Miles



National Fuel Corporation

Location: Gov. 34-1
QtrQtr, SWSW Sec, 34 Twp, 8s Rng 104W
Site Map

Date: 1/20/2014

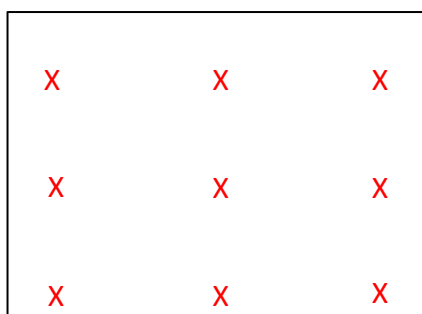
File:

Figure: 1





NFC-G34-1-ETS-082514



Lift

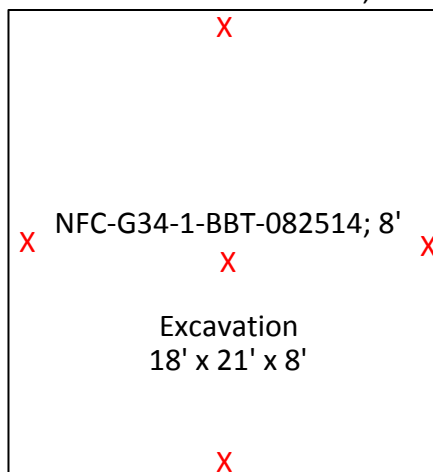
75' x 25' x 2'

Direction of
Flow



NFC-G34-1-NSW-082514; 6'

NFC-G34-1-WSW-082514; 6'



NFC-G34-1-ESW-082514; 6'

NFC-G34-1-SSW-082514; 6'

Legend
X-Sample

**National Fuel
Corporation**

Well: Figure 3. Govt. 34-1

Area: Bar X Unit

Legal: SWSW, Sec 34, 82S, 101W, 6th PM

Date: 08/29/14

Drawn By: Shad Johnson

Revision Date:

Scale: None

APPENDIX A



12065 Lebanon Rd.
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Shad Johnson
Rule Engineering - Grand Junction
786 Valley Court
Grand Junction, CO 81505

Report Summary

Wednesday September 03, 2014

Report Number: L718093


Samples Received: 08/26/14

Client Project: GOVT 34-1

Description: National Fuel Corp-GOVT 34-1

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jared Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-IN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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REPORT OF ANALYSIS

Shad Johnson
Rule Engineering - Grand Junction
786 Valley Court
Grand Junction, CO 81505

September 03, 2014

Date Received : August 26, 2014
Description : National Fuel Corp-GOVT 34-1
Sample ID : NFC-G34-1-NSW-082514 6 FT
Collected By : Shad Johnson
Collection Date : 08/25/14 10:10

ESC Sample # : L718093-01

Site ID : GOVT 34-1

Project # : GOVT 34-1

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021	08/27/14	5
Toluene	BDL	0.025	mg/kg	8021	08/27/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021	08/27/14	5
Total Xylene	BDL	0.0075	mg/kg	8021	08/27/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015	08/27/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8015	08/27/14	5
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021	08/27/14	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	08/28/14	1
Surrogate recovery(%)						
o-Terphenyl	82.7		% Rec.	3546/DRO	08/28/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Shad Johnson
Rule Engineering - Grand Junction
786 Valley Court
Grand Junction, CO 81505

September 03, 2014

Date Received : August 26, 2014
Description : National Fuel Corp-GOVT 34-1
Sample ID : NFC-G34-1-ESW-082514 6 FT
Collected By : Shad Johnson
Collection Date : 08/25/14 10:30

ESC Sample # : L718093-02

Site ID : GOVT 34-1

Project # : GOVT 34-1

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021	08/27/14	5
Toluene	BDL	0.025	mg/kg	8021	08/27/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021	08/27/14	5
Total Xylene	BDL	0.0075	mg/kg	8021	08/27/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015	08/27/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	99.5		% Rec.	8015	08/27/14	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021	08/27/14	5
TPH (GC/FID) High Fraction	6.4	4.0	mg/kg	3546/DRO	08/29/14	1
Surrogate recovery(%)						
o-Terphenyl	67.0		% Rec.	3546/DRO	08/29/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Shad Johnson
Rule Engineering - Grand Junction
786 Valley Court
Grand Junction, CO 81505

September 03, 2014

Date Received : August 26, 2014
Description : National Fuel Corp-GOVT 34-1
Sample ID : NFC-G34-1-SSW-082514 6 FT
Collected By : Shad Johnson
Collection Date : 08/25/14 10:45

ESC Sample # : L718093-03

Site ID : GOVT 34-1

Project # : GOVT 34-1

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021	08/27/14	5
Toluene	BDL	0.025	mg/kg	8021	08/27/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021	08/27/14	5
Total Xylene	BDL	0.0075	mg/kg	8021	08/27/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015	08/27/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	99.8		% Rec.	8015	08/27/14	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021	08/27/14	5
TPH (GC/FID) High Fraction	5.4	4.0	mg/kg	3546/DRO	08/28/14	1
Surrogate recovery(%)						
o-Terphenyl	63.5		% Rec.	3546/DRO	08/28/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Shad Johnson
Rule Engineering - Grand Junction
786 Valley Court
Grand Junction, CO 81505

September 03, 2014

Date Received : August 26, 2014
Description : National Fuel Corp-GOVT 34-1
Sample ID : NFC-G34-1-WSW-082514 6 FT
Collected By : Shad Johnson
Collection Date : 08/25/14 11:00

ESC Sample # : L718093-04

Site ID : GOVT 34-1

Project # : GOVT 34-1

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021	08/27/14	5
Toluene	BDL	0.025	mg/kg	8021	08/27/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021	08/27/14	5
Total Xylene	BDL	0.0075	mg/kg	8021	08/27/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015	08/27/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	99.8		% Rec.	8015	08/27/14	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021	08/27/14	5
TPH (GC/FID) High Fraction	6.7	4.0	mg/kg	3546/DRO	08/28/14	1
Surrogate recovery(%)						
o-Terphenyl	84.2		% Rec.	3546/DRO	08/28/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Rule Engineering - Grand Junction
786 Valley Court
Grand Junction, CO 81505

September 03, 2014

Date Received : August 26, 2014
Description : National Fuel Corp-GOVT 34-1
Sample ID : NFC-G34-1-BBT-082514 8 FT
Collected By : Shad Johnson
Collection Date : 08/25/14 11:35

ESC Sample # : L718093-05

Site ID : GOVT 34-1

Project # : GOVT 34-1

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021	08/28/14	5
Toluene	BDL	0.025	mg/kg	8021	08/28/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021	08/28/14	5
Total Xylene	BDL	0.0075	mg/kg	8021	08/28/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015	08/28/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	99.6		% Rec.	8015	08/28/14	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021	08/28/14	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	08/28/14	1
Surrogate recovery(%)						
o-Terphenyl	75.9		% Rec.	3546/DRO	08/28/14	1

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REPORT OF ANALYSIS

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Rule Engineering - Grand Junction
786 Valley Court
Grand Junction, CO 81505

September 03, 2014

Date Received : August 26, 2014
Description : National Fuel Corp-GOVT 34-1
Sample ID : NFC-G34-1-ETS-082514 3-9 IN
Collected By : Shad Johnson
Collection Date : 08/25/14 11:15

ESC Sample # : L718093-06

Site ID : GOVT 34-1

Project # : GOVT 34-1

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	08/28/14	1
Chromium, Trivalent	10.	2.0	mg/kg	Calc.	09/02/14	1
ORP	110		mV	2580 B-2011	08/30/14	1
pH	7.6		su	9045D	08/30/14	1
Sodium Adsorption Ratio	16.			Calc.	08/29/14	1
Specific Conductance	1000		umhos/cm	9050AMod	08/29/14	1
Mercury	0.026	0.020	mg/kg	7471	08/28/14	1
Arsenic	4.6	2.0	mg/kg	6010B	08/30/14	1
Barium	150	0.50	mg/kg	6010B	08/30/14	1
Cadmium	BDL	0.50	mg/kg	6010B	08/30/14	1
Chromium	10.	1.0	mg/kg	6010B	08/30/14	1
Copper	15.	2.0	mg/kg	6010B	08/30/14	1
Lead	12.	0.50	mg/kg	6010B	08/30/14	1
Nickel	11.	2.0	mg/kg	6010B	08/30/14	1
Selenium	3.3	2.0	mg/kg	6010B	08/30/14	1
Silver	BDL	1.0	mg/kg	6010B	08/30/14	1
Zinc	53.	5.0	mg/kg	6010B	08/30/14	1
Benzene	BDL	0.0025	mg/kg	8021	08/28/14	5
Toluene	BDL	0.025	mg/kg	8021	08/28/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021	08/28/14	5
Total Xylene	BDL	0.0075	mg/kg	8021	08/28/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015	08/28/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	99.7		% Rec.	8015	08/28/14	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021	08/28/14	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	08/28/14	1
Surrogate recovery(%)						
o-Terphenyl	64.8		% Rec.	3546/DRO	08/28/14	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/01/14	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	09/01/14	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	09/01/14	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/01/14	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/01/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L718093-06 (PH) - 7.6@20.4c



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Grand Junction, CO 81505

September 03, 2014

Date Received : August 26, 2014
Description : National Fuel Corp-GOVT 34-1
Sample ID : NFC-G34-1-ETS-082514 3-9 IN
Collected By : Shad Johnson
Collection Date : 08/25/14 11:15

ESC Sample # : L718093-06

Site ID : GOVT 34-1

Project # : GOVT 34-1

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/01/14	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	09/01/14	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/01/14	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	09/01/14	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/01/14	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/01/14	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	09/01/14	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/01/14	1
Naphthalene	BDL	0.020	mg/kg	8270C-SIM	09/01/14	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	09/01/14	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/01/14	1
1-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	09/01/14	1
2-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	09/01/14	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	09/01/14	1
Surrogate Recovery						
p-Terphenyl-d14	93.4		% Rec.	8270C-SIM	09/01/14	1
Nitrobenzene-d5	82.9		% Rec.	8270C-SIM	09/01/14	1
2-Fluorobiphenyl	84.6		% Rec.	8270C-SIM	09/01/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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L718093-06 (PH) - 7.6@20.4c



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REPORT OF ANALYSIS

Shad Johnson
Rule Engineering - Grand Junction
786 Valley Court
Grand Junction, CO 81505

September 03, 2014

Date Received : August 26, 2014
Description : National Fuel Corp-GOVT 34-1
Sample ID : NFC-G34-1-BG2-082514 6 IN
Collected By : Shad Johnson
Collection Date : 08/25/14 09:00

ESC Sample # : L718093-07

Site ID : GOVT 34-1

Project # : GOVT 34-1

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	3.7	2.0	mg/kg	6010B	08/30/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Shad Johnson
Rule Engineering - Grand Junction
786 Valley Court
Grand Junction, CO 81505

September 03, 2014

Date Received : August 26, 2014
Description : National Fuel Corp-GOVT 34-1
Sample ID : NFC-G34-1-BG3-082514 6 IN
Collected By : Shad Johnson
Collection Date : 08/25/14 09:10

ESC Sample # : L718093-08

Site ID : GOVT 34-1

Project # : GOVT 34-1

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.3	2.0	mg/kg	6010B	08/30/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Shad Johnson
Rule Engineering - Grand Junction
786 Valley Court
Grand Junction, CO 81505

September 03, 2014

Date Received : August 26, 2014
Description : National Fuel Corp-GOVT 34-1
Sample ID : NFC-G34-1-BG4-082514 6 IN
Collected By : Shad Johnson
Collection Date : 08/25/14 09:20

ESC Sample # : L718093-09

Site ID : GOVT 34-1
Project # : GOVT 34-1

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.5	2.0	mg/kg	6010B	08/30/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 09/03/14 12:03 Printed: 09/03/14 12:31

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L718093-06	WG739679	SAMP	Mercury	R2982175	P1

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



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Tax I.D. 62-0814289

Est. 1970

September 03, 2014

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/kg			WG739674	08/27/14 16:53
Ethylbenzene	< .0005	mg/kg			WG739674	08/27/14 16:53
Toluene	< .005	mg/kg			WG739674	08/27/14 16:53
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG739674	08/27/14 16:53
Total Xylene	< .0015	mg/kg			WG739674	08/27/14 16:53
a,a,a-Trifluorotoluene(FID)		% Rec.	101.0	59-128	WG739674	08/27/14 16:53
a,a,a-Trifluorotoluene(PID)		% Rec.	102.0	54-144	WG739674	08/27/14 16:53
Chromium,Hexavalent	< 2	mg/kg			WG739590	08/28/14 11:06
Mercury	< .02	mg/kg			WG739679	08/28/14 08:36
TPH (GC/FID) High Fraction	< 4	mg/kg			WG739804	08/28/14 15:53
o-Terphenyl		% Rec.	92.30	50-150	WG739804	08/28/14 15:53
Specific Conductance	0.930	umhos/cm			WG739831	08/29/14 14:26
Arsenic	< 2	mg/kg			WG740211	08/30/14 16:17
Barium	< .5	mg/kg			WG740211	08/30/14 16:17
Cadmium	< .5	mg/kg			WG740211	08/30/14 16:17
Chromium	< 1	mg/kg			WG740211	08/30/14 16:17
Copper	< 2	mg/kg			WG740211	08/30/14 16:17
Lead	< .5	mg/kg			WG740211	08/30/14 16:17
Nickel	< 2	mg/kg			WG740211	08/30/14 16:17
Selenium	< 2	mg/kg			WG740211	08/30/14 16:17
Silver	< 1	mg/kg			WG740211	08/30/14 16:17
Zinc	< 5	mg/kg			WG740211	08/30/14 16:17
1-Methylnaphthalene	< .02	mg/kg			WG740485	09/01/14 00:55
2-Chloronaphthalene	< .02	mg/kg			WG740485	09/01/14 00:55
2-Methylnaphthalene	< .02	mg/kg			WG740485	09/01/14 00:55
Acenaphthene	< .006	mg/kg			WG740485	09/01/14 00:55
Acenaphthylene	< .006	mg/kg			WG740485	09/01/14 00:55
Anthracene	< .006	mg/kg			WG740485	09/01/14 00:55
Benzo(a)anthracene	< .006	mg/kg			WG740485	09/01/14 00:55
Benzo(a)pyrene	< .006	mg/kg			WG740485	09/01/14 00:55
Benzo(b)fluoranthene	< .006	mg/kg			WG740485	09/01/14 00:55
Benzo(g,h,i)perylene	< .006	mg/kg			WG740485	09/01/14 00:55
Benzo(k)fluoranthene	< .006	mg/kg			WG740485	09/01/14 00:55
Chrysene	< .006	mg/kg			WG740485	09/01/14 00:55
Dibenz(a,h)anthracene	< .006	mg/kg			WG740485	09/01/14 00:55
Fluoranthene	< .006	mg/kg			WG740485	09/01/14 00:55
Fluorene	< .006	mg/kg			WG740485	09/01/14 00:55
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG740485	09/01/14 00:55
Naphthalene	< .02	mg/kg			WG740485	09/01/14 00:55
Phenanthrene	< .006	mg/kg			WG740485	09/01/14 00:55
Pyrene	< .006	mg/kg			WG740485	09/01/14 00:55
2-Fluorobiphenyl		% Rec.	84.30	38.2-135	WG740485	09/01/14 00:55
Nitrobenzene-d5		% Rec.	83.10	28.4-151	WG740485	09/01/14 00:55
p-Terphenyl-d14		% Rec.	79.80	34.2-141	WG740485	09/01/14 00:55

* Performance of this Analyte is outside of established criteria.
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Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate					
Chromium,Hexavalent	mg/kg	0.0	0.0		0.0	20	L718093-06	WG739590
Chromium,Hexavalent	mg/kg	0.0	0.0		0.0	20	L717908-01	WG739590
Mercury	mg/kg	0.0440	0.0261		50.0*	20	L718093-06	WG739679
Specific Conductance	umhos/cm	650.	650.		0.307	20	L718026-14	WG739831
Specific Conductance	umhos/cm	710.	710.		0.0	20	L718283-09	WG739831
ORP	mV	90.0	90.0		0.0	20	L717697-06	WG739816
ORP	mV	120.	120.		0.0	20	L717697-16	WG739816
pH	su	4.40	4.40		1.13*	1	L717732-01	WG740292
pH	su	11.0	11.0		2.49*	1	L718860-11	WG740292

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/kg	.05	0.0427	85.4	70-130	WG739674
Ethylbenzene	mg/kg	.05	0.0473	94.6	70-130	WG739674
Toluene	mg/kg	.05	0.0461	92.3	70-130	WG739674
Total Xylene	mg/kg	.15	0.145	96.8	70-130	WG739674
a,a,a-Trifluorotoluene(PID)				103.0	54-144	WG739674
TPH (GC/FID) Low Fraction	mg/kg	5.5	4.55	82.7	63.5-137	WG739674
a,a,a-Trifluorotoluene(FID)				99.60	59-128	WG739674
Chromium,Hexavalent	mg/kg	187	200.	107.	80-120	WG739590
Mercury	mg/kg	12.4	13.4	108.	71.6-128	WG739679
TPH (GC/FID) High Fraction	mg/kg	60	52.7	87.8	50-150	WG739804
o-Terphenyl				92.70	50-150	WG739804
Specific Conductance	umhos/cm	1040	1000	96.2	85-115	WG739831
Arsenic	mg/kg	237	236.	99.0	83.1-117	WG740211
Barium	mg/kg	252	259.	103.	84.1-116	WG740211
Cadmium	mg/kg	191	186.	97.0	83.2-117	WG740211
Chromium	mg/kg	128	132.	103.	81.3-118	WG740211
Copper	mg/kg	123	127.	103.	83.7-116	WG740211
Lead	mg/kg	103	101.	98.0	83.1-117	WG740211
Nickel	mg/kg	118	118.	100.	82-118	WG740211
Selenium	mg/kg	110	112.	102.	78.7-122	WG740211
Silver	mg/kg	47.3	48.3	102.	66.2-134	WG740211
Zinc	mg/kg	183	185.	101.	82-118	WG740211
1-Methylnaphthalene	mg/kg	.08	0.0709	88.6	48.9-127	WG740485
2-Chloronaphthalene	mg/kg	.08	0.0701	87.7	48.8-125	WG740485
2-Methylnaphthalene	mg/kg	.08	0.0705	88.2	45.7-131	WG740485
Acenaphthene	mg/kg	.08	0.0720	90.1	48.7-127	WG740485
Acenaphthylene	mg/kg	.08	0.0713	89.1	47.9-128	WG740485

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Anthracene	mg/kg	.08	0.0784	98.0	51.3-136	WG740485
Benzo(a)anthracene	mg/kg	.08	0.0701	87.6	55-126	WG740485
Benzo(a)pyrene	mg/kg	.08	0.0683	85.4	51.9-127	WG740485
Benzo(b)fluoranthene	mg/kg	.08	0.0664	83.0	54-125	WG740485
Benzo(g,h,i)perylene	mg/kg	.08	0.0698	87.3	53.8-136	WG740485
Benzo(k)fluoranthene	mg/kg	.08	0.0729	91.2	53.9-132	WG740485
Chrysene	mg/kg	.08	0.0730	91.2	55.7-133	WG740485
Dibenz(a,h)anthracene	mg/kg	.08	0.0738	92.3	52.6-137	WG740485
Fluoranthene	mg/kg	.08	0.0716	89.5	54-132	WG740485
Fluorene	mg/kg	.08	0.0711	88.9	48.7-127	WG740485
Indeno(1,2,3-cd)pyrene	mg/kg	.08	0.0744	93.0	53.8-138	WG740485
Naphthalene	mg/kg	.08	0.0701	87.6	42-127	WG740485
Phenanthrene	mg/kg	.08	0.0708	88.4	49.6-126	WG740485
Pyrene	mg/kg	.08	0.0701	87.7	54-129	WG740485
2-Fluorobiphenyl				93.20	38.2-135	WG740485
Nitrobenzene-d5				95.00	28.4-151	WG740485
p-Terphenyl-d14				94.60	34.2-141	WG740485
ORP	mV	100	100.	100.	90-110	WG739816
pH	su	6.33	6.30	99.5	98.3-101.7	WG740292

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/kg	0.0408	0.0427	82.0	70-130	4.55	20	WG739674
Ethylbenzene	mg/kg	0.0451	0.0473	90.0	70-130	4.84	20	WG739674
Toluene	mg/kg	0.0439	0.0461	88.0	70-130	5.06	20	WG739674
Total Xylene	mg/kg	0.138	0.145	92.0	70-130	5.04	20	WG739674
a,a,a-Trifluorotoluene(PID)				103.0	54-144			WG739674
TPH (GC/FID) Low Fraction	mg/kg	4.58	4.55	83.0	63.5-137	0.650	20	WG739674
a,a,a-Trifluorotoluene(FID)				99.60	59-128			WG739674
Chromium, Hexavalent	mg/kg	200.	200.	107.	80-120	0.0	20	WG739590
TPH (GC/FID) High Fraction	mg/kg	50.8	52.7	85.0	50-150	3.52	20	WG739804
o-Terphenyl				95.20	50-150			WG739804
Specific Conductance	umhos/	1000	1000	96.0	85-115	0.0	20	WG739831
Arsenic	mg/kg	226.	236.	96.0	83.1-117	4.00	20	WG740211
Barium	mg/kg	256.	259.	101.	84.1-116	1.00	20	WG740211
Cadmium	mg/kg	179.	186.	94.0	83.2-117	4.00	20	WG740211
Chromium	mg/kg	128.	132.	100.	81.3-118	3.00	20	WG740211
Copper	mg/kg	122.	127.	100.	83.7-116	4.00	20	WG740211
Lead	mg/kg	96.7	101.	94.0	83.1-117	4.00	20	WG740211
Nickel	mg/kg	114.	118.	97.0	82-118	4.00	20	WG740211
Selenium	mg/kg	108.	112.	98.0	78.7-122	4.00	20	WG740211
Silver	mg/kg	46.3	48.3	98.0	66.2-134	4.00	20	WG740211
Zinc	mg/kg	179.	185.	98.0	82-118	3.00	20	WG740211
1-Methylnaphthalene	mg/kg	0.0711	0.0709	89.0	48.9-127	0.330	20	WG740485

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Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
2-Chloronaphthalene	mg/kg	0.0709	0.0701	89.0	48.8-125	1.15	20	WG740485
2-Methylnaphthalene	mg/kg	0.0707	0.0705	88.0	45.7-131	0.150	20	WG740485
Acenaphthene	mg/kg	0.0729	0.0720	91.0	48.7-127	1.12	20	WG740485
Acenaphthylene	mg/kg	0.0723	0.0713	90.0	47.9-128	1.39	20	WG740485
Anthracene	mg/kg	0.0786	0.0784	98.0	51.3-136	0.240	20	WG740485
Benzo(a)anthracene	mg/kg	0.0702	0.0701	88.0	55-126	0.130	20	WG740485
Benzo(a)pyrene	mg/kg	0.0708	0.0683	88.0	51.9-127	3.59	20	WG740485
Benzo(b)fluoranthene	mg/kg	0.0735	0.0664	92.0	54-125	10.1	20	WG740485
Benzo(g,h,i)perylene	mg/kg	0.0706	0.0698	88.0	53.8-136	1.12	20	WG740485
Benzo(k)fluoranthene	mg/kg	0.0684	0.0729	86.0	53.9-132	6.36	20	WG740485
Chrysene	mg/kg	0.0748	0.0730	94.0	55.7-133	2.49	20	WG740485
Dibenz(a,h)anthracene	mg/kg	0.0745	0.0738	93.0	52.6-137	0.860	20	WG740485
Fluoranthene	mg/kg	0.0693	0.0716	86.0	54-132	3.37	20	WG740485
Fluorene	mg/kg	0.0721	0.0711	90.0	48.7-127	1.32	20	WG740485
Indeno(1,2,3-cd)pyrene	mg/kg	0.0748	0.0744	94.0	53.8-138	0.540	20	WG740485
Naphthalene	mg/kg	0.0697	0.0701	87.0	42-127	0.570	20	WG740485
Phenanthrene	mg/kg	0.0696	0.0708	87.0	49.6-126	1.61	20	WG740485
Pyrene	mg/kg	0.0693	0.0701	87.0	54-129	1.23	20	WG740485
2-Fluorobiphenyl				90.80	38.2-135			WG740485
Nitrobenzene-d5				89.30	28.4-151			WG740485
p-Terphenyl-d14				90.60	34.2-141			WG740485
ORP	mV	100.	100.	100.	90-110	0.0	20	WG739816
pH	su	6.30	6.30	100.	98.3-101.7	0.0	20	WG740292

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Benzene	mg/kg	0.186	0.000249	.05	74.0	49.7-127	L718093-01	WG739674
Ethylbenzene	mg/kg	0.202	0.000192	.05	81.0	40.8-141	L718093-01	WG739674
Toluene	mg/kg	0.200	0.000566	.05	80.0	49.8-132	L718093-01	WG739674
Total Xylene	mg/kg	0.617	0.00104	.15	82.0	41.2-140	L718093-01	WG739674
a,a,a-Trifluorotoluene(PID)					103.0	54-144		WG739674
TPH (GC/FID) Low Fraction	mg/kg	17.7	0.0	5.5	64.0	28.5-138	L718093-01	WG739674
a,a,a-Trifluorotoluene(FID)					97.10	59-128		WG739674
Chromium,Hexavalent	mg/kg	19.8	0.0	20	99.0	75-125	L717970-03	WG739590
Mercury	mg/kg	0.582	0.0261	.5	110.	80-120	L718093-06	WG739679
TPH (GC/FID) High Fraction	mg/kg	51.3	3.10	60	80.0	50-150	L718093-06	WG739804
o-Terphenyl					72.40	50-150		WG739804
Barium	mg/kg	205.	95.7	100	110.	75-125	L718775-02	WG740211
1-Methylnaphthalene	mg/kg	0.0690	0.0	.08	86.0	41.8-133	L718399-03	WG740485
2-Chloronaphthalene	mg/kg	0.0686	0.0	.08	86.0	42.4-129	L718399-03	WG740485
2-Methylnaphthalene	mg/kg	0.0683	0.0	.08	85.0	37.5-137	L718399-03	WG740485
Acenaphthene	mg/kg	0.0700	0.000673	.08	87.0	39.4-132	L718399-03	WG740485
Acenaphthylene	mg/kg	0.0711	0.0	.08	89.0	41.3-132	L718399-03	WG740485
Anthracene	mg/kg	0.0729	0.0	.08	91.0	36.7-144	L718399-03	WG740485

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Benzo(a)anthracene	mg/kg	0.0620	0.00104	.08	76.0	28-144	L718399-03	WG740485
Benzo(a)pyrene	mg/kg	0.0634	0.0	.08	79.0	23.8-147	L718399-03	WG740485
Benzo(b)fluoranthene	mg/kg	0.0595	0.000650	.08	74.0	18.2-147	L718399-03	WG740485
Benzo(g,h,i)perylene	mg/kg	0.0622	0.0	.08	78.0	9.2-155	L718399-03	WG740485
Benzo(k)fluoranthene	mg/kg	0.0620	0.0	.08	77.0	26.5-143	L718399-03	WG740485
Chrysene	mg/kg	0.0672	0.000835	.08	83.0	27.4-150	L718399-03	WG740485
Dibenz(a,h)anthracene	mg/kg	0.0670	0.0	.08	84.0	13.8-150	L718399-03	WG740485
Fluoranthene	mg/kg	0.0624	0.00324	.08	74.0	23.2-158	L718399-03	WG740485
Fluorene	mg/kg	0.0683	0.0	.08	85.0	30.8-139	L718399-03	WG740485
Indeno(1,2,3-cd)pyrene	mg/kg	0.0650	0.0	.08	81.0	10.7-155	L718399-03	WG740485
Naphthalene	mg/kg	0.0676	0.000807	.08	84.0	34.9-133	L718399-03	WG740485
Phenanthrene	mg/kg	0.0648	0.00238	.08	78.0	20.2-150	L718399-03	WG740485
Pyrene	mg/kg	0.0614	0.00251	.08	74.0	22.6-151	L718399-03	WG740485
2-Fluorobiphenyl					87.50	38.2-135		WG740485
Nitrobenzene-d5					85.80	28.4-151		WG740485
p-Terphenyl-d14					87.80	34.2-141		WG740485

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/kg	0.170	0.186	67.7	49.7-127	9.49	23.5	L718093-01	WG739674
Ethylbenzene	mg/kg	0.178	0.202	71.0	40.8-141	12.7	23.8	L718093-01	WG739674
Toluene	mg/kg	0.178	0.200	71.2	49.8-132	11.6	23.5	L718093-01	WG739674
Total Xylene	mg/kg	0.545	0.617	72.6	41.2-140	12.4	23.7	L718093-01	WG739674
a,a,a-Trifluorotoluene(PID)				102.0	54-144				WG739674
TPH (GC/FID) Low Fraction	mg/kg	17.9	17.7	64.9	28.5-138	1.16	23.6	L718093-01	WG739674
a,a,a-Trifluorotoluene(FID)				97.60	59-128				WG739674
Chromium, Hexavalent	mg/kg	19.8	19.8	99.0	75-125	0.0	20	L717970-03	WG739590
Mercury	mg/kg	0.536	0.582	102.	80-120	8.00	20	L718093-06	WG739679
TPH (GC/FID) High Fraction	mg/kg	49.0	51.3	76.5	50-150	4.65	20	L718093-06	WG739804
o-Terphenyl				69.30	50-150				WG739804
Barium	mg/kg	201.	205.	105.	75-125	2.00	20	L718775-02	WG740211
1-Methylnaphthalene	mg/kg	0.0690	0.0690	86.3	41.8-133	0.100	20.9	L718399-03	WG740485
2-Chloronaphthalene	mg/kg	0.0678	0.0686	84.8	42.4-129	1.12	20	L718399-03	WG740485
2-Methylnaphthalene	mg/kg	0.0687	0.0683	85.8	37.5-137	0.490	20.4	L718399-03	WG740485
Acenaphthene	mg/kg	0.0693	0.0700	85.8	39.4-132	0.990	20	L718399-03	WG740485
Acenaphthylene	mg/kg	0.0701	0.0711	87.6	41.3-132	1.43	20	L718399-03	WG740485
Anthracene	mg/kg	0.0714	0.0729	89.2	36.7-144	2.03	20.7	L718399-03	WG740485
Benzo(a)anthracene	mg/kg	0.0604	0.0620	74.2	28-144	2.64	24.7	L718399-03	WG740485
Benzo(a)pyrene	mg/kg	0.0613	0.0634	76.7	23.8-147	3.34	25.3	L718399-03	WG740485
Benzo(b)fluoranthene	mg/kg	0.0582	0.0595	71.9	18.2-147	2.21	29.5	L718399-03	WG740485
Benzo(g,h,i)perylene	mg/kg	0.0591	0.0622	73.9	9.2-155	5.13	29.2	L718399-03	WG740485
Benzo(k)fluoranthene	mg/kg	0.0595	0.0620	74.4	26.5-143	4.04	26.1	L718399-03	WG740485
Chrysene	mg/kg	0.0654	0.0672	80.7	27.4-150	2.77	25.7	L718399-03	WG740485
Dibenz(a,h)anthracene	mg/kg	0.0651	0.0670	81.4	13.8-150	2.95	25.8	L718399-03	WG740485
Fluoranthene	mg/kg	0.0611	0.0624	72.3	23.2-158	2.17	26	L718399-03	WG740485
Fluorene	mg/kg	0.0674	0.0683	84.3	30.8-139	1.34	20	L718399-03	WG740485
Indeno(1,2,3-cd)pyrene	mg/kg	0.0623	0.0650	77.8	10.7-155	4.25	26.9	L718399-03	WG740485
Naphthalene	mg/kg	0.0681	0.0676	84.1	34.9-133	0.740	20.4	L718399-03	WG740485

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Rule Engineering - Grand Junction
Shad Johnson
786 Valley Court

Grand Junction, CO 81505

Quality Assurance Report
Level II

L718093

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

September 03, 2014

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Phenanthrene	mg/kg	0.0644	0.0648	77.5	20.2-150	0.690	24.6	L718399-03	WG740485
Pyrene	mg/kg	0.0609	0.0614	72.9	22.6-151	0.890	25.1	L718399-03	WG740485
2-Fluorobiphenyl				86.20	38.2-135				WG740485
Nitrobenzene-d5				85.60	28.4-151				WG740485
p-Terphenyl-d14				86.20	34.2-141				WG740485

Post Spike

Serial Dilution

Batch number /Run number / Sample number cross reference

WG739674: R2982117: L718093-01 02 03 04 05 06
WG739590: R2982170: L718093-06
WG739679: R2982175: L718093-06
WG739804: R2982649 R2982806: L718093-01 02 03 04 05 06
WG739943: R2982754: L718093-06
WG739831: R2982846: L718093-06
WG740211: R2983205: L718093-06 07 08
WG740485: R2983645 R2984033 R2984052 R2984069: L718093-06
WG739816: R2983685: L718093-06
WG740292: R2983691: L718093-06

* * Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Rule Engineering
786 Valley Ct.
Grand Junction, CO 81505
RULENGJCO

Billing Information:
Shad Johnson
1055 Kipling St
Lakewood, CO 80215
303-431-8500

Report to: Shad Johnson
Email to: sjohnson@ruleengineering.com

Project Description: National Fuel Corp - Govt. 34-1
City/State Collected: CO
Phone: 970-216-7544
FAX: Client Project #: Govt. 34-1
ESC Key: RULENGJCO
Collected by: Shad Johnson
Site/Facility ID#: Govt 34-1
P.O.#:

Collected by (signature): *[Signature]*
Immediately Packed on Ice N *[Initials]*
Rush? (Lab MUST Be Notified)
____ Same Day..... 200%
____ Next Day..... 100%
____ Two Day..... 50%
____ Three Day..... 25%
Date Results Needed:
Email? ☐ No ☒ Yes
FAX? ☒ No ☐ Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	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	Remarks/Contaminant	Sample # (lab only)
NFC-G34-1-NSW-082514	Grab	SS	6'	8-25-14	1010	2	X									
NFC-G34-1-ESW-082514	Grab	SS	6'	8-25-14	1030	2	X									6718093-01
NFC-G34-1-SSW-082514	Grab	SS	6'	8-25-14	1045	2	X									02
NFC-G34-1-WSW-082514	Grab	SS	6'	8-25-14	1100	2	X									07
NFC-G34-1-BAGE-082514	Grab	SS	8'	8-25-14	1135	2	X									04
NFC-G34-1-ETS-082514	Comp	SS	3-9"	8-25-14	1115	3	X	X	X	X	X	X	X		<i>[Signature]</i>	05
NFC-G34-1-BG2-082514	Grab	SS	6"	8-25-14	0900	1								X		06
NFC-G34-1-BG3-082514	Grab	SS	6"	8-25-14	0910	1								X		07
NFC-G34-1-BG4-082514	Grab	SS	6"	8-25-14	0920	1								X		08
														X		09

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature) *[Signature]* Date: 8/25/14 Time: 1500
Relinquished by: (Signature) _____ Date: _____ Time: _____
Relinquished by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) _____
Received by: (Signature) _____
Received for lab by: (Signature) *[Signature]*

Samples returned via: ☒ FedEx ☐ Courier ☐ UPS
Temp: 3.1°C Bottles Received: 16
Date: 8/26/14 Time: 9:00

Condition: (lab use only) *[Initials]*
CoC Seals Intact: ☐ Y ☒ N ☐ NA
pH Checked: _____ NCF: _____

Chain of Custody
Page 1 of 1
ESC
L.A.B S.C.I.E.N.C.E.S
12065 Lebanon Road
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Phone: (800) 767-5859
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CoCode (lab use only)

Template/Prelogin

Shipped Via **J185**