

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**FORT ST VRAIN 3**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

				Organics (mg/kg)										
COGCC Allowable Concentration (Soil) -->				500			0.17	85	100	175	23	4	(6-9)	12
Sample ID:	Sample Date:	Sample Depth (feet bgs):	Photoionization Detector Reading (ppm):	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	TPH-RRO (C28-C40) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total	Naphthalene	EC (<4 mmhos/cm or 2x background)	pH (unit)	SAR
B01@7'	06/25/2019	7'	5.4	<0.200	<25.0	<100	<0.002	<0.002	<0.002	<0.002	<0.008	0.0825	8.02	2.70
E01@5'	06/25/2019	5'	4.4	<0.200	<25.0	<100	<0.002	<0.002	<0.002	<0.002	<0.008	NA	NA	NA
N01@5'	06/25/2019	5'	1.6	<0.200	<25.0	<100	<0.002	<0.002	<0.002	<0.002	<0.008	NA	NA	NA
S01@5'	06/25/2019	5'	0.0	<0.200	<25.0	<100	<0.002	<0.002	<0.002	<0.002	<0.008	NA	NA	NA
W01@5'	06/25/2019	5'	1.9	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA

Notes: mg/kg - milligrams per kilogram  
COGCC - Colorado Oil and Gas Conservation Commission  
bgs - below ground surface  
ppm - parts per million  
TPH - total petroleum hydrocarbons  
GRO - gasoline range organics  
DRO - diesel range organics  
RRO - residual range organics  
EC - Specific Conductance  
mmhos/cm - millimhos per centimeter  
SAR - Sodium Adsorption Ratio  
NA - not analyzed  
**Bold** indicates result exceeds allowable level



TABLE 2  
GROUNDWATER ANALYTICAL AND FIELD RESULTS  
FORT ST VRAIN 3  
WELD COUNTY, COLORADO  
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)
<b>COGCC Allowable Levels</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>	
GW01	06/25/2019	<1.00	<1.00	<1.00	<1.00	6.00

Notes: COGCC - Colorado Oil and Gas Conservation Commission  
ft bgs - feet below ground surface  
NA - not analyzed/not available  
NM - not measured

µg/L - micrograms per liter  
< - less than laboratory reporting limit  
Bold indicates result exceeds allowable level  
Excavation groundwater depth is approximate





June 28, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - Fort St. Vrain 3**

**Project Number - 014219067**

Attached are your analytical results for KMG - Fort St. Vrain 3 received by Origins Laboratory, Inc. June 25, 2019. This project is associated with Origins project number Y906435-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@5'	Y906435-01	Soil	June 25, 2019 14:10	06/25/2019 15:50
E01@5'	Y906435-02	Soil	June 25, 2019 14:15	06/25/2019 15:50
S01@5'	Y906435-03	Soil	June 25, 2019 14:20	06/25/2019 15:50
W01@5'	Y906435-04	Soil	June 25, 2019 14:25	06/25/2019 15:50
B01@7'	Y906435-05	Soil	June 25, 2019 14:35	06/25/2019 15:50
GW01	Y906435-07	Water	June 25, 2019 14:30	06/25/2019 15:50

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**ORIGINS**  
LABORATORY, INC.

Client: LTE

Address: 4600 W. 60<sup>th</sup> Ave  
Arivada, CO 80003

Telephone Number: 303 - 433 - 9788

Email Address: KMG Team

www.originslaboratory.com

1906435





page 1 of 1

Project Manager: Brian Sulzberger

Project Name: Fort St. Vrain 3

Project Number: 014219067

Samples Collected By: Jeff Borden

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis				Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	G BTEX+N	(O&O, DOC)	pH	EC		SAR
N01051	6-25-19	1410	2	X					X			X				BTEx	1
E01059		1415	2	X					X			X					2
S01051		1420	2	X					X			X					3
N01053		1425	2	X					X			X					4
B01071		1435	2	X					X			X	X				5
B501		1445	2	X					X			X			Hold		6
G-001		1430	3	X					X							X	7
																	8
																	9
																	10
Relinquished By: 	Date: 6/25/19	Time: 1550		Received By: 					Date: 6/25/19			Time: 1550			Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>		
Relinquished By: 	Date: 6/25/19	Time: 1550		Received By: 					Date: 6/25/19			Time: 1550			Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>		

Origins Laboratory, Inc.

Jeff Pellipini

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: Y906435 Client: LTE  
Client Project ID: Fort St Vrain 3  
Checklist Completed by: JG Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Date/time completed: 6/25/2019 Airbill #: N/A  
Matrix(s) Received: (Check all that apply): X Soil/Solid X Water Other:  
(Describe)  
Cooler Number/Temperature: 1 / 5.6 °C 1 / 1 °C 1 / 1 °C  
Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

Date/Time Reviewed

Origins Laboratory, Inc.

*Jen Pellegrini*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

N01@5'

6/25/2019 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y906435-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9F2511	KDK	06/25/2019	06/25/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 76.1 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9F2502	KDK	06/25/2019	06/25/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "  
Surrogate: Toluene-d8 96.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

E01@5'

6/25/2019 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y906435-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9F2511	KDK	06/25/2019	06/25/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 77.2 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9F2502	KDK	06/25/2019	06/25/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.0 % 70-130 " " "  
Surrogate: Toluene-d8 96.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

S01@5'

6/25/2019 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y906435-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9F2511	KDK	06/25/2019	06/25/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 90.3 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9F2502	KDK	06/25/2019	06/25/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "  
Surrogate: Toluene-d8 95.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

W01@5'

6/25/2019 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y906435-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9F2511	KDK	06/25/2019	06/25/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 79.8 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9F2502	KDK	06/25/2019	06/25/2019	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 93.9 % 70-130 " " "  
Surrogate: Toluene-d8 98.0 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

B01@7'

6/25/2019 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y906435-05 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9F2511	KDK	06/25/2019	06/25/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 84.8 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9F2502	KDK	06/25/2019	06/25/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.2 % 70-130 " " "  
Surrogate: Toluene-d8 97.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

**Metals (Saturated Paste Prep)**

Calcium	2.25	me/L	1	'[none]'		06/26/2019	06/28/2019
Magnesium	2.15	"	"	"		"	"
Sodium	4.01	"	"	"		"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

B01@7'

6/25/2019 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.**  
Y906435-05 (Soil)

**pH in Soil by EPA 9045D**

pH	8.02		pH Units	1	B9F2507	OLAB	06/25/2019	06/25/2019	
----	------	--	----------	---	---------	------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	2.70			1	'[none]'		06/26/2019	06/28/2019	
-----	------	--	--	---	----------	--	------------	------------	--

**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0825	0.00500	mmhos/cm	1	B9F2508	OLAB	06/25/2019	06/25/2019	
---------------------------	--------	---------	----------	---	---------	------	------------	------------	--

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

## GW01

6/25/2019 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

## Origins Laboratory, Inc. Y906435-07 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2403	KDK	06/25/2019	06/25/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B9F2403 - EPA 5030B (Water)**

**Blank (B9F2403-BLK1)**

Prepared: 06/24/2019 Analyzed: 06/25/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.2	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B9F2403 - EPA 5030B (Water)**

**Blank (B9F2403-BLK2)**

Prepared: 06/24/2019 Analyzed: 06/25/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5	102		70-130			
Surrogate: Toluene-d8	65		"	62.5	104		70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B9F2403 - EPA 5030B (Water)**

**LCS (B9F2403-BS1)**

Prepared: 06/24/2019 Analyzed: 06/25/2019

Benzene	52.4	1.00	ug/L	50.0		105	70-130			
Toluene	52.6	1.00	"	50.0		105	70-130			
Ethylbenzene	51.3	1.00	"	50.0		103	70-130			
m,p-Xylene	102	2.00	"	100		102	70-130			
o-Xylene	50.0	1.00	"	50.0		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.2	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B9F2403 - EPA 5030B (Water)**

**LCS (B9F2403-BS2)**

Prepared: 06/24/2019 Analyzed: 06/25/2019

Benzene	57.4	1.00	ug/L	50.0		115	70-130			
Toluene	57.6	1.00	"	50.0		115	70-130			
Ethylbenzene	52.1	1.00	"	50.0		104	70-130			
m,p-Xylene	104	2.00	"	100		104	70-130			
o-Xylene	50.4	1.00	"	50.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.7	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B9F2403 - EPA 5030B (Water)**

Matrix Spike (B9F2403-MS1)		Source: Y906387-01			Prepared: 06/24/2019 Analyzed: 06/25/2019					
Benzene	65.1	1.00	ug/L	50.0	ND	130	70-130			
Toluene	67.4	1.00	"	50.0	ND	135	70-130			QM-07
Ethylbenzene	62.4	1.00	"	50.0	ND	125	70-130			
m,p-Xylene	124	2.00	"	100	0.200	124	70-130			
o-Xylene	58.0	1.00	"	50.0	ND	116	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.6	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B9F2403 - EPA 5030B (Water)**

Matrix Spike (B9F2403-MS2)		Source: Y906387-02			Prepared: 06/24/2019 Analyzed: 06/25/2019					
Benzene	65.5	1.00	ug/L	50.0	ND	131	70-130			QM-07
Toluene	67.1	1.00	"	50.0	ND	134	70-130			QM-07
Ethylbenzene	61.9	1.00	"	50.0	ND	124	70-130			
m,p-Xylene	123	2.00	"	100	ND	123	70-130			
o-Xylene	57.4	1.00	"	50.0	ND	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.8	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9F2403 - EPA 5030B (Water)</b>										
<b>Matrix Spike Dup (B9F2403-MSD1)</b>			<b>Source: Y906387-01</b>		Prepared: 06/24/2019 Analyzed: 06/25/2019					
Benzene	69.2	1.00	ug/L	50.0	ND	138	70-130	6.17	20	QM-07
Toluene	70.8	1.00	"	50.0	ND	142	70-130	4.98	20	QM-07
Ethylbenzene	65.5	1.00	"	50.0	ND	131	70-130	4.93	20	QM-07
m,p-Xylene	130	2.00	"	100	0.200	130	70-130	5.28	20	
o-Xylene	61.1	1.00	"	50.0	ND	122	70-130	5.17	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.7	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B9F2403 - EPA 5030B (Water)**

Matrix Spike Dup (B9F2403-MSD2)		Source: Y906387-02			Prepared: 06/24/2019 Analyzed: 06/25/2019					
Benzene	63.1	1.00	ug/L	50.0	ND	126	70-130	3.79	20	
Toluene	65.0	1.00	"	50.0	ND	130	70-130	3.14	20	
Ethylbenzene	59.7	1.00	"	50.0	ND	119	70-130	3.54	20	
m,p-Xylene	118	2.00	"	100	ND	118	70-130	4.72	20	
o-Xylene	56.0	1.00	"	50.0	ND	112	70-130	2.38	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.6	70-130			
Surrogate: Toluene-d8	67		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9F2502 - EPA 5030 (soil)</b>										
<b>Blank (B9F2502-BLK1)</b>					Prepared: 06/25/2019 Analyzed: 06/25/2019					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9F2502 - EPA 5030 (soil)</b>										
<b>Blank (B9F2502-BLK2)</b>					Prepared: 06/25/2019 Analyzed: 06/25/2019					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9F2502 - EPA 5030 (soil)</b>										
<b>LCS (B9F2502-BS1)</b>					Prepared: 06/25/2019 Analyzed: 06/25/2019					
Benzene	0.085	0.002	mg/kg	0.100		85.0	70-130			
Toluene	0.082	0.002	"	0.100		82.0	70-130			
Ethylbenzene	0.083	0.002	"	0.100		83.3	70-130			
m,p-Xylene	0.172	0.004	"	0.200		86.1	70-130			
o-Xylene	0.091	0.002	"	0.100		91.1	70-130			
Naphthalene	0.101	0.008	"	0.100		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9F2502 - EPA 5030 (soil)</b>										
<b>LCS (B9F2502-BS2)</b>					Prepared: 06/25/2019 Analyzed: 06/25/2019					
Benzene	0.086	0.002	mg/kg	0.100		86.1	70-130			
Toluene	0.084	0.002	"	0.100		83.8	70-130			
Ethylbenzene	0.085	0.002	"	0.100		85.2	70-130			
m,p-Xylene	0.176	0.004	"	0.200		87.8	70-130			
o-Xylene	0.092	0.002	"	0.100		92.3	70-130			
Naphthalene	0.081	0.008	"	0.100		81.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B9F2502 - EPA 5030 (soil)**

Matrix Spike (B9F2502-MS1)		Source: Y906392-01			Prepared: 06/25/2019 Analyzed: 06/25/2019					
Benzene	0.085	0.002	mg/kg	0.100	ND	84.7	70-130			
Toluene	0.081	0.002	"	0.100	ND	80.7	70-130			
Ethylbenzene	0.082	0.002	"	0.100	ND	82.1	70-130			
m,p-Xylene	0.170	0.004	"	0.200	ND	85.1	70-130			
o-Xylene	0.091	0.002	"	0.100	0.0003	90.7	70-130			
Naphthalene	0.088	0.008	"	0.100	ND	88.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B9F2502 - EPA 5030 (soil)**

Matrix Spike (B9F2502-MS2)		Source: Y906392-02			Prepared: 06/25/2019 Analyzed: 06/25/2019					
Benzene	0.081	0.002	mg/kg	0.100	ND	81.2	70-130			
Toluene	0.076	0.002	"	0.100	ND	75.6	70-130			
Ethylbenzene	0.074	0.002	"	0.100	ND	74.1	70-130			
m,p-Xylene	0.154	0.004	"	0.200	ND	77.2	70-130			
o-Xylene	0.083	0.002	"	0.100	ND	83.1	70-130			
Naphthalene	0.091	0.008	"	0.100	0.001	90.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9F2502 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B9F2502-MSD1)</b>		<b>Source: Y906392-01</b>			Prepared: 06/25/2019 Analyzed: 06/25/2019					
Benzene	0.083	0.002	mg/kg	0.100	ND	83.0	70-130	2.08	20	
Toluene	0.079	0.002	"	0.100	ND	78.7	70-130	2.46	20	
Ethylbenzene	0.080	0.002	"	0.100	ND	79.8	70-130	2.84	20	
m,p-Xylene	0.165	0.004	"	0.200	ND	82.7	70-130	2.91	20	
o-Xylene	0.088	0.002	"	0.100	0.0003	88.0	70-130	2.93	20	
Naphthalene	0.091	0.008	"	0.100	ND	91.0	70-130	2.83	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9F2502 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B9F2502-MSD2)</b>		<b>Source: Y906392-02</b>			Prepared: 06/25/2019 Analyzed: 06/25/2019					
Benzene	0.083	0.002	mg/kg	0.100	ND	82.9	70-130	2.12	20	
Toluene	0.079	0.002	"	0.100	ND	79.4	70-130	4.93	20	
Ethylbenzene	0.081	0.002	"	0.100	ND	80.5	70-130	8.30	20	
m,p-Xylene	0.167	0.004	"	0.200	ND	83.6	70-130	7.89	20	
o-Xylene	0.089	0.002	"	0.100	ND	88.7	70-130	6.50	20	
Naphthalene	0.089	0.008	"	0.100	0.001	87.6	70-130	3.00	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9F2511 - EPA 3580</b>										
<b>Blank (B9F2511-BLK1)</b>					Prepared: 06/25/2019 Analyzed: 06/25/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	38		"	50.0		75.5	50-150			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9F2511 - EPA 3580</b>										
<b>LCS (B9F2511-BS1)</b>					Prepared: 06/25/2019 Analyzed: 06/25/2019					
Diesel (C10-C28)	972	50.0	mg/kg	1000		97.2	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	47		"	50.0		94.9	50-150			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini For Noelle Doyle Mathis, President

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B9F2511 - EPA 3580**

Matrix Spike (B9F2511-MS1)		Source: Y906435-01			Prepared: 06/25/2019 Analyzed: 06/25/2019					
Diesel (C10-C28)	921	50.0	mg/kg	1000	ND	92.1	70-130			
Residual Range Organics (C28-C40)	925	200	"	1000	ND	92.5	70-130			
Surrogate: o-Terphenyl	44		"	50.0		87.5	50-150			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini For Noelle Doyle Mathis, President

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9F2511 - EPA 3580</b>										
<b>Matrix Spike Dup (B9F2511-MSD1)</b>		<b>Source: Y906435-01</b>			Prepared: 06/25/2019 Analyzed: 06/25/2019					
Diesel (C10-C28)	945	50.0	mg/kg	1000	ND	94.5	70-130	2.53	35	
Residual Range Organics (C28-C40)	998	200	"	1000	ND	99.8	70-130	7.60	35	
Surrogate: o-Terphenyl	47		"	50.0		93.1	50-150			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini For Noelle Doyle Mathis, President

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch B9F2507 - NO PREP

<b>Duplicate (B9F2507-DUP1)</b>		<b>Source: Y906422-01</b>			Prepared: 06/25/2019 Analyzed: 06/25/2019					
pH	8.07		pH Units		8.30			2.81	25	

#### Batch B9F2508 - NO PREP

<b>Blank (B9F2508-BLK1)</b>		Prepared: 06/25/2019 Analyzed: 06/25/2019								
Specific Conductance (EC)	0.00230	0.00500	mmhos/cm							
<b>Duplicate (B9F2508-DUP1)</b>		<b>Source: Y906422-01</b>			Prepared: 06/25/2019 Analyzed: 06/25/2019					
Specific Conductance (EC)	0.142	0.00502	mmhos/cm		0.142			0.0702	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014219067  
Project: KMG - Fort St. Vrain 3

### Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*