



August 20, 2019

**SRC Energy**

**Dave Castro**

**5400 W 11th Street**

**Greely**

**CO 80634**

**Project Name - Warren McMillan 2 Investigation**

**Project Number - [none]**

Attached are your analytical results for Warren McMillan 2 Investigation received by Origins Laboratory, Inc. August 15, 2019. This project is associated with Origins project number Y908258-01.

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

SRC Energy

5400 W 11th Street

Greely CO 80634

Dave Castro

Project Number: [none]

Project: Warren McMillan 2 Investigation

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SSS1@7'	Y908258-01	Soil	August 14, 2019 14:30	08/15/2019 15:22
SWSS1@7'	Y908258-02	Soil	August 14, 2019 14:35	08/15/2019 15:22
WSS1@7'	Y908258-03	Soil	August 14, 2019 14:40	08/15/2019 15:22
NWSS1@6'	Y908258-04	Soil	August 14, 2019 14:45	08/15/2019 15:22
NSS1@6'	Y908258-05	Soil	August 14, 2019 14:50	08/15/2019 15:22
NESS1@6'	Y908258-06	Soil	August 14, 2019 14:55	08/15/2019 15:22

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

SRC Energy  
5400 W 11th Street  
Greely CO 80634

Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

www.originslaboratory.com

**ORIGINS**  
LABORATORY, INC

4908258

page 1 of 1

Project Manager: Dave Castro  
Project Name: Warren McMillan 2 Investigation  
Project Number:  
Samples Collected By: dcastro@srcenergy.com

Client: SRC Energy, Inc.  
Address: 5400 W. 11th St., Ste. C, Greeley, CO 80634  
Telephone Number: 970-475-5245  
Email Address: dcastro@srcenergy.com

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summ #		
SSS1 @ 7'	8/14/19	14:30	2	X				X			X X X	1
SWSS1 @ 7'	8/14/19	14:35	2	X				X			X X X	2
WSS1 @ 7'	8/14/19	14:40	2	X				X			X X X	3
NWSS1 @ 6'	8/14/19	14:45	2	X				X			X X X	4
NSS1 @ 6'	8/14/19	14:50	2	X				X			X X X	5
NESS1 @ 6'	8/14/19	14:55	2	X				X			X X X	6
												7
												8
												9
												10
Relinquished By: [Signature]	Date: 8/15/19	Time: 2:21		Received By: [Signature]				Date: 8/15/19	Time: 15:22	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>		
Relinquished By: [Signature]	Date:	Time:		Received By:				Date:	Time:			

Date Results Needed

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Origins Laboratory, Inc.

*Jen Pellegrini*

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SRC Energy  
5400 W 11th Street  
Greely CO 80634

Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: Y908258 Client: SRC Energy  
Client Project ID: Warren McMillan 2  
Checklist Completed by: JS Shipped Via: HD  
Date/time completed: 8/16/19 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: N/A  
Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_  
Cooler Number/Temperature: 1 3.3 °C \_\_\_\_\_ °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe)  
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? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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) OW Date/Time Reviewed 8/19/19

Origins Laboratory, Inc.

*Jen Pellegrini*

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SRC Energy  
5400 W 11th Street  
Greely CO 80634

Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

SSS1@7'

8/14/2019 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908258-01 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B9H1603	KDK	08/16/2019	08/16/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	0.662	0.0500	"	"	"	KDK	"	"	
Xylenes, total	4.39	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	293	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"
Surrogate: Toluene-d8	89.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	123 %	70-130			"	"	"

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	962	50.0	mg/kg	1	B9H1604	KDK	08/16/2019	08/17/2019
Surrogate: o-Terphenyl	89.8 %	50-150			"	"	"	

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Jen Pellegrini, Project Manager

SRC Energy  
5400 W 11th Street  
Greely CO 80634

Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

SWSS1@7'

8/14/2019 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908258-02 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B9H1603	KDK	08/16/2019	08/16/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	1.32	0.0500	"	"	"	KDK	"	"	
Xylenes, total	1.18	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	296	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"
Surrogate: Toluene-d8	91.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	122 %	70-130			"	"	"

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	981	50.0	mg/kg	1	B9H1604	KDK	08/16/2019	08/17/2019
Surrogate: o-Terphenyl	90.9 %	50-150			"	"	"	

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Jen Pellegrini, Project Manager

SRC Energy  
5400 W 11th Street  
Greely CO 80634

Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

WSS1@7'  
8/14/2019 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y908258-03 (Soil)

### BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9H1605	KDK	08/16/2019	08/16/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	0.838	0.0500	"	"	"	KDK	"	"	
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	60.8	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"
Surrogate: Toluene-d8	108 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130			"	"	"

### Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	1080	50.0	mg/kg	1	B9H1606	KDK	08/16/2019	08/17/2019
Surrogate: o-Terphenyl	80.8 %	50-150			"	"	"	

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SRC Energy  
5400 W 11th Street  
Greely CO 80634

Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

NWSS1@6'

8/14/2019 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908258-04 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B9H1605	KDK	08/16/2019	08/16/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	0.0695	0.0500	"	"	"	KDK	"	"	
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	202	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4  
Surrogate: Toluene-d8  
Surrogate: 4-Bromofluorobenzene

92.3 % 70-130  
93.6 % 70-130  
128 % 70-130

" "  
" "  
" "

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	1000	50.0	mg/kg	1	B9H1606	KDK	08/16/2019	08/17/2019	
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Surrogate: o-Terphenyl

79.8 % 50-150

" "

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Jen Pellegrini, Project Manager

SRC Energy  
5400 W 11th Street  
Greely CO 80634

Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

NSS1@6'  
8/14/2019 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y908258-05 (Soil)

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B9H1605	KDK	08/16/2019	08/16/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	23.1	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130	"	"	"	"	"	"	
Surrogate: Toluene-d8	93.8 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	177	50.0	mg/kg	1	B9H1606	KDK	08/16/2019	08/17/2019	
Surrogate: o-Terphenyl	79.9 %	50-150	"	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

SRC Energy  
5400 W 11th Street  
Greely CO 80634

Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

NESS1@6'

8/14/2019 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908258-06 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B9H1605	KDK	08/16/2019	08/16/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130			"	"	"

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9H1606	KDK	08/16/2019	08/16/2019	U
Surrogate: o-Terphenyl	73.3 %	50-150			"	"	"		

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

SRC Energy  
5400 W 11th Street  
Greely CO 80634

Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

**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 B9H1603 - EPA 5030 (soil)</b>										
<b>Blank (B9H1603-BLK1)</b>					Prepared: 08/16/2019 Analyzed: 08/16/2019					
Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.1	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

SRC Energy  
5400 W 11th Street  
Greely CO 80634

Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

**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
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**Batch B9H1603 - EPA 5030 (soil)**

**LCS (B9H1603-BS1)**

Prepared: 08/16/2019 Analyzed: 08/16/2019

Benzene	0.112	0.00200	mg/kg	0.100		112	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.178	0.00400	"	0.200		89.1	70-130			
o-Xylene	0.0998	0.00200	"	0.100		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

SRC Energy  
5400 W 11th Street  
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Dave Castro  
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**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
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**Batch B9H1603 - EPA 5030 (soil)**

Matrix Spike (B9H1603-MS1)		Source: Y908252-01			Prepared: 08/16/2019 Analyzed: 08/16/2019					
Benzene	0.114	0.00200	mg/kg	0.100	ND	114	70-130			
Toluene	0.0904	0.00200	"	0.100	ND	90.4	70-130			
Ethylbenzene	0.0825	0.00200	"	0.100	ND	82.5	70-130			
m,p-Xylene	0.174	0.00400	"	0.200	ND	87.1	70-130			
o-Xylene	0.0879	0.00200	"	0.100	ND	87.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

SRC Energy  
5400 W 11th Street  
Greely CO 80634

Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

**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 B9H1603 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B9H1603-MSD1)</b>		<b>Source: Y908252-01</b>			Prepared: 08/16/2019 Analyzed: 08/16/2019					
Benzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130	11.6	20	
Toluene	0.0788	0.00200	"	0.100	ND	78.8	70-130	13.8	20	
Ethylbenzene	0.0681	0.00200	"	0.100	ND	68.1	70-130	19.1	20	QM-07
m,p-Xylene	0.142	0.00400	"	0.200	ND	71.0	70-130	20.3	20	QR-03
o-Xylene	0.0743	0.00200	"	0.100	ND	74.3	70-130	16.7	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	70-130			

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SRC Energy  
5400 W 11th Street  
Greely CO 80634

Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

**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
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Batch B9H1604 - EPA 3580

Blank (B9H1604-BLK1)

Prepared: 08/16/2019 Analyzed: 08/17/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	38		"	50.0		76.2	50-150			

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SRC Energy  
5400 W 11th Street  
Greely CO 80634

Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

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
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Batch B9H1604 - EPA 3580

LCS (B9H1604-BS1)

Prepared: 08/16/2019 Analyzed: 08/17/2019

Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Surrogate: o-Terphenyl	46		"	50.0		91.7	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

SRC Energy  
5400 W 11th Street  
Greely CO 80634

Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

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
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Batch B9H1604 - EPA 3580

Matrix Spike (B9H1604-MS1)		Source: Y908252-01			Prepared: 08/16/2019 Analyzed: 08/17/2019					
Diesel (C10-C28)	954	50.0	mg/kg	1000	ND	95.4	70-130			
Surrogate: o-Terphenyl	40		"	50.0		80.2	50-150			

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SRC Energy  
5400 W 11th Street  
Greely CO 80634

Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

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
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Batch B9H1604 - EPA 3580

Matrix Spike Dup (B9H1604-MSD1)		Source: Y908252-01			Prepared: 08/16/2019 Analyzed: 08/17/2019					
Diesel (C10-C28)	977	50.0	mg/kg	1000	ND	97.7	70-130	2.34	35	
Surrogate: o-Terphenyl	43		"	50.0		85.3	50-150			

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Jen Pellegrini, Project Manager

SRC Energy  
5400 W 11th Street  
Greely CO 80634

Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

## 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 B9H1605 - EPA 5030 (soil)										
Blank (B9H1605-BLK1)					Prepared: 08/16/2019 Analyzed: 08/16/2019					
Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	70-130			

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Jen Pellegrini, Project Manager

SRC Energy  
5400 W 11th Street  
Greely CO 80634

Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

**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
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**Batch B9H1605 - EPA 5030 (soil)**

**LCS (B9H1605-BS1)**

Prepared: 08/16/2019 Analyzed: 08/16/2019

Benzene	0.0951	0.00200	mg/kg	0.100		95.1	70-130			
Toluene	0.0989	0.00200	"	0.100		98.9	70-130			
Ethylbenzene	0.0940	0.00200	"	0.100		94.0	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		92.8	70-130			
o-Xylene	0.0922	0.00200	"	0.100		92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

SRC Energy  
5400 W 11th Street  
Greely CO 80634

Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

**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
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**Batch B9H1605 - EPA 5030 (soil)**

Matrix Spike (B9H1605-MS1)		Source: Y908258-06			Prepared: 08/16/2019 Analyzed: 08/16/2019					
Benzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
Toluene	0.108	0.00200	"	0.100	ND	108	70-130			
Ethylbenzene	0.105	0.00200	"	0.100	0.00250	103	70-130			
m,p-Xylene	0.208	0.00400	"	0.200	ND	104	70-130			
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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SRC Energy  
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Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

**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
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**Batch B9H1605 - EPA 5030 (soil)**

Matrix Spike Dup (B9H1605-MSD1)		Source: Y908258-06			Prepared: 08/16/2019 Analyzed: 08/16/2019					
Benzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130	3.87	20	
Toluene	0.116	0.00200	"	0.100	ND	116	70-130	7.29	20	
Ethylbenzene	0.105	0.00200	"	0.100	0.00250	102	70-130	0.610	20	
m,p-Xylene	0.208	0.00400	"	0.200	ND	104	70-130	0.144	20	
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	1.43	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.0	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Project: Warren McMillan 2 Investigation

**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
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Batch B9H1606 - EPA 3580

Blank (B9H1606-BLK1)

Prepared: 08/16/2019 Analyzed: 08/16/2019

Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	19		"	25.0		75.0	50-150			

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SRC Energy  
5400 W 11th Street  
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Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

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
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Batch B9H1606 - EPA 3580

LCS (B9H1606-BS1)

Prepared: 08/16/2019 Analyzed: 08/16/2019

Diesel (C10-C28)	968	50.0	mg/kg	1000		96.8	70-130			
Surrogate: o-Terphenyl	46		"	50.0		92.2	50-150			

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Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

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
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Batch B9H1606 - EPA 3580

Matrix Spike (B9H1606-MS1)		Source: Y908258-06			Prepared: 08/16/2019 Analyzed: 08/16/2019					
Diesel (C10-C28)	977	50.0	mg/kg	1000	ND	97.7	70-130			
Surrogate: o-Terphenyl	45		"	50.0		89.6	50-150			

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Dave Castro  
Project Number: [none]  
Project: Warren McMillan 2 Investigation

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
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Batch B9H1606 - EPA 3580

Matrix Spike Dup (B9H1606-MSD1)		Source: Y908258-06			Prepared: 08/16/2019 Analyzed: 08/16/2019					
Diesel (C10-C28)	982	50.0	mg/kg	1000	ND	98.2	70-130	0.500	35	
Surrogate: o-Terphenyl	36		"	50.0		72.5	50-150			

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Jen Pellegrini, Project Manager

SRC Energy

5400 W 11th Street

Greely CO 80634

Dave Castro

Project Number: [none]

Project: Warren McMillan 2 Investigation

## Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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.

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