

October 09, 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. October 08, 2019. This project is associated with Origins project number Y910144-01.

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



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
SSS2@8'	Y910144-01	Soil	October 8, 2019 11:18	10/08/2019 16:18

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

49101441

page 1 of 1

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

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Summed			Other
SSS2 @ 8'	10/8/19	11:18	2	X				X			X	X	1
													2
													3
													4
													5
													6
													7
													8
													9
													10

Relinquished By: [Signature] Date: 10/8/19 Time: 16:18
Relinquished By: [Signature] Date: 10/8/19 Time: 16:18

Received By: [Signature] Date: 10/8/19 Time: 16:18
Received By: [Signature] Date: 10/8/19 Time: 16:18

Turnaround Time: 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☒

Date Results Needed

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: y 910144 Client: SRC
Client Project ID: Warren McMillan 2 Investig
Checklist Completed by: JG Shipped Via: HA
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 10/8/19 Airbill #: N/A
Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)
Cooler Number/Temperature: 1 / 5.7 °C 1 °C 1 °C 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 ⁽¹⁾ ?	<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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾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 10/8/19

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

SSS2@8'

10/8/2019 11:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910144-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9J0808	ZZZ	10/08/2019	10/08/2019	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130			"	"	"
Surrogate: Toluene-d8	94.4 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	95.1 %	70-130			"	"	"

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9J0802	KDK	10/08/2019	10/08/2019	U
Surrogate: o-Terphenyl	76.0 %	50-150			"	"	"		

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SRC Energy
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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 B9J0802 - EPA 3580

Blank (B9J0802-BLK1)

Prepared: 10/08/2019 Analyzed: 10/08/2019

Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	20		"	25.0		78.9	50-150			

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Jen Pellegrini, Project Manager

SRC Energy
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Greely CO 80634

Dave Castro
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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 B9J0802 - EPA 3580

LCS (B9J0802-BS1)

Prepared: 10/08/2019 Analyzed: 10/08/2019

Diesel (C10-C28)	879	50.0	mg/kg	1000		87.9	70-130			
Surrogate: o-Terphenyl	45		"	50.0		89.1	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 B9J0802 - EPA 3580

Matrix Spike (B9J0802-MS1)		Source: Y910120-04			Prepared: 10/08/2019 Analyzed: 10/08/2019					
Diesel (C10-C28)	879	50.0	mg/kg	1000	ND	87.9	70-130			
Surrogate: o-Terphenyl	40		"	50.0		80.9	50-150			

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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 B9J0802 - EPA 3580

Matrix Spike Dup (B9J0802-MSD1)		Source: Y910120-04			Prepared: 10/08/2019 Analyzed: 10/08/2019					
Diesel (C10-C28)	859	50.0	mg/kg	1000	ND	85.9	70-130	2.37	35	
Surrogate: o-Terphenyl	39		"	50.0		78.2	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
Batch B9J0808 - EPA 5030 (soil)										
Blank (B9J0808-BLK1)					Prepared: 10/08/2019 Analyzed: 10/08/2019					
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	0.12		"	0.125		98.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

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SRC Energy
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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 B9J0808 - EPA 5030 (soil)

LCS (B9J0808-BS1)

Prepared: 10/08/2019 Analyzed: 10/08/2019

Benzene	0.107	0.00200	mg/kg	0.100		107	70-130			
Toluene	0.0982	0.00200	"	0.100		98.2	70-130			
Ethylbenzene	0.0979	0.00200	"	0.100		97.9	70-130			
m,p-Xylene	0.192	0.00400	"	0.200		95.9	70-130			
o-Xylene	0.0960	0.00200	"	0.100		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	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 B9J0808 - EPA 5030 (soil)

Matrix Spike (B9J0808-MS1)		Source: Y910135-02			Prepared: 10/08/2019 Analyzed: 10/08/2019					
Benzene	0.0932	0.00200	mg/kg	0.100	ND	93.2	70-130			
Toluene	0.0839	0.00200	"	0.100	ND	83.9	70-130			
Ethylbenzene	0.0834	0.00200	"	0.100	ND	83.4	70-130			
m,p-Xylene	0.164	0.00400	"	0.200	ND	82.0	70-130			
o-Xylene	0.0828	0.00200	"	0.100	ND	82.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	70-130			

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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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B9J0808 - EPA 5030 (soil)

Matrix Spike Dup (B9J0808-MSD1)		Source: Y910135-02			Prepared: 10/08/2019 Analyzed: 10/08/2019					
Benzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130	10.1	20	
Toluene	0.0925	0.00200	"	0.100	ND	92.5	70-130	9.71	20	
Ethylbenzene	0.0915	0.00200	"	0.100	ND	91.5	70-130	9.22	20	
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.4	70-130	9.68	20	
o-Xylene	0.0918	0.00200	"	0.100	ND	91.8	70-130	10.3	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.1	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

Notes and Definitions

U Sample is Non-Detect.

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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