



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

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Jen Pellegrini, Project Manager

SRC Energy
 5400 W 11th Street
 Greeley CO 80634

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

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4908258

page 1 of 1

Client: SRC Energy, Inc. Project Manager: Dave Castro
 Address: 5400 W. 11th St., Ste. C, Greeley, CO 80634 Project Name: Warren McMillan 2 Investigation
 Telephone Number: 970-475-5245 Project Number: [blank]
 Email Address: dcastro@srcenergy.com Samples Collected By: 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 ₃	Other	Groundwater	Soil	Air Summa #		
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: 2:51		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: [blank]	Time: [blank]		Received By: [blank]	Date: [blank]	Time: [blank]						

Date Results Needed

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Jefe Pellegrini

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 Greeley 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: JG 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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" 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"/>		
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"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? if yes, contact client and note in narrative.			<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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<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) OND Date/Time Reviewed 8/19/19

Origins Laboratory, Inc.



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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	
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Surrogate: o-Terphenyl	89.8 %	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

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	
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Surrogate: o-Terphenyl	90.9 %	50-150			"	"	"	"	
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 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	
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Surrogate: o-Terphenyl	80.8 %	50-150			"	"	"	"	
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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	92.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	93.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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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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	
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Surrogate: o-Terphenyl	79.9 %	50-150			"	"	"	"	
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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				"	"	"	

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 Project Number: [none]
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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)

Blank (B9H1603-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	0.14		"	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			

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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			

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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			

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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 B9H1603 - EPA 5030 (soil)

Matrix Spike Dup (B9H1603-MSD1)	Source: Y908252-01			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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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 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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Jen Pellegrini, Project Manager

SRC Energy
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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 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			

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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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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 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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Dave Castro
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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 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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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			

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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 (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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Dave Castro
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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 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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Dave Castro
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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
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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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 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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SRC Energy
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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: <i>o</i> -Terphenyl	45		"	50.0		89.6	50-150			

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SRC Energy
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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 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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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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