



August 14, 2019

SRC Energy

Dave Castro

5400 W 11th Street

Greely

CO 80634

Project Name - Warren McMillen 2 Investigation Project Number - [none]

Attached are your analytical results for Warren McMillen 2 Investigation received by Origins Laboratory, Inc. August 13, 2019. This project is associated with Origins project number Y908205-01.

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
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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 McMillen 2 Investigation

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SESS1@8'	Y908205-01	Soil	August 13, 2019 13:35	08/13/2019 16:20

Origins Laboratory, Inc.



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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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y9008205

Client: SRC Energy
 Client Project ID: Warren McMillan 2

Checklist Completed by: JG

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Date/time completed: 8/13/19

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 3.4 °C _____ / _____ °C _____ / _____ °C (Describe) _____ °C

Thermometer ID: TC003

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 HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +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.

[Signature]
 Reviewed by (Project Manager) 8/13/19
 Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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SRC Energy
 5400 W 11th Street
 Greely CO 80634

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

SESS1@8'
 8/13/2019 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y908205-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9H1317	KDK	08/13/2019	08/14/2019	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	92.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	117 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9H1320	KDK	08/13/2019	08/13/2019	U
Surrogate: o-Terphenyl	75.2 %	50-150			"	"	"	"	

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SRC Energy
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 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: Warren McMillen 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 B9H1317 - EPA 5030 (soil)

Blank (B9H1317-BLK1)

Prepared: 08/13/2019 Analyzed: 08/13/2019

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		92.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		123	70-130			

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Jen Pellegrini, Project Manager

SRC Energy
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 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: Warren McMillen 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 B9H1317 - EPA 5030 (soil)

LCS (B9H1317-BS1)

Prepared: 08/13/2019 Analyzed: 08/13/2019

Benzene	0.109	0.00200	mg/kg	0.100		109	70-130			
Toluene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.206	0.00400	"	0.200		103	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		119	70-130			

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Dave Castro
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 Project: Warren McMillen 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 B9H1317 - EPA 5030 (soil)

Matrix Spike (B9H1317-MS1)	Source: Y908201-21			Prepared: 08/13/2019 Analyzed: 08/13/2019						
Benzene	0.112	0.00200	mg/kg	0.100	ND	112	70-130			
Toluene	0.108	0.00200	"	0.100	0.00350	104	70-130			
Ethylbenzene	0.108	0.00200	"	0.100	0.00450	104	70-130			
m,p-Xylene	0.213	0.00400	"	0.200	0.0135	99.6	70-130			
o-Xylene	0.114	0.00200	"	0.100	0.00500	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		117	70-130			

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Jen Pellegrini, Project Manager

SRC Energy
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Dave Castro
 Project Number: [none]
 Project: Warren McMillen 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 B9H1317 - EPA 5030 (soil)

Matrix Spike Dup (B9H1317-MSD1)	Source: Y908201-21	Prepared: 08/13/2019	Analyzed: 08/13/2019						
Benzene	0.127	0.00200	mg/kg	0.100	ND	127	70-130	12.5	20
Toluene	0.122	0.00200	"	0.100	0.00350	119	70-130	12.5	20
Ethylbenzene	0.126	0.00200	"	0.100	0.00450	122	70-130	15.5	20
m,p-Xylene	0.246	0.00400	"	0.200	0.0135	116	70-130	14.6	20
o-Xylene	0.124	0.00200	"	0.100	0.00500	119	70-130	8.45	20
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.7	70-130		
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130		
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		120	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
Batch B9H1320 - EPA 3580										
Blank (B9H1320-BLK1)										
					Prepared: 08/13/2019 Analyzed: 08/13/2019					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	20		"	25.0		79.3	50-150			

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Jen Pellegrini, Project Manager

SRC Energy
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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 B9H1320 - EPA 3580

LCS (B9H1320-BS1)

Prepared: 08/13/2019 Analyzed: 08/13/2019

Diesel (C10-C28)	835	50.0	mg/kg	1000		83.5	70-130			
Surrogate: o-Terphenyl	41		"	50.0		82.1	50-150			

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Dave Castro
 Project Number: [none]
 Project: Warren McMillen 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 B9H1320 - EPA 3580

Matrix Spike (B9H1320-MS1)	Source: Y908203-01			Prepared: 08/13/2019 Analyzed: 08/13/2019						
Diesel (C10-C28)	954	50.0	mg/kg	1000	ND	95.4	70-130			
Surrogate: o-Terphenyl	38		"	50.0		76.6	50-150			

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SRC Energy
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Dave Castro
 Project Number: [none]
 Project: Warren McMillen 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 B9H1320 - EPA 3580										
Matrix Spike Dup (B9H1320-MSD1)		Source: Y908203-01								
					Prepared: 08/13/2019	Analyzed: 08/13/2019				
Diesel (C10-C28)	908	50.0	mg/kg	1000	ND	90.8	70-130	4.89	35	
Surrogate: o-Terphenyl	37		"	50.0		73.1	50-150			

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Dave Castro
Project Number: [none]
Project: Warren McMillen 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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