



October 11, 2019

**SRC Energy**

**Dave Castro**

**5400 W 11th Street**

**Greely**

**CO 80634**

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**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 09, 2019. This project is associated with Origins project number Y910171-01.

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



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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 McMillan 2 Investigation

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WSS2@8'	Y910171-01	Soil	October 9, 2019 14:15	10/09/2019 16:47
SWSS2@8'	Y910171-02	Soil	October 9, 2019 14:17	10/09/2019 16:47
SSS4@8'	Y910171-03	Soil	October 9, 2019 14:19	10/09/2019 16:47
SESS2@8'	Y910171-04	Soil	October 9, 2019 14:21	10/09/2019 16:47
SSS3@8'	Y910171-05	Soil	October 9, 2019 14:23	10/09/2019 16:47

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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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7910171

**ORIGINS**  
 LABORATORY, INC

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

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 Summa #			Other
WSS2 @ 8'	10/9/19	14:15	2	X				X			X X X	1	
SWSS2 @ 8'	10/9/19	16:17	2	X				X			X X X	2	
SSS4 @ 8'	10/9/19	16:19	2	X				X			X X X	3	
SESS2 @ 8'	10/9/19	14:21	2	X				X			X X X	4	
SSS3 @ 8'	10/9/19	14:23	2	X				X			X X X	5	
												6	
												7	
												8	
												9	
												10	
Relinquished By: [Signature]	Date: 10/9/19	Time: 16:47	Received By: [Signature]	Date: 10/9/19	Time: 16:47	Analysis: [Handwritten: BTEX, SP, GAO]	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>						
Relinquished By:	Date:	Time:	Received By:	Date:	Time:								

9.5 Date Results Needed

Origins Laboratory, Inc.

*Jefe Pellegrini*

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 5400 W 11th Street  
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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 910171

Client: SRC

Client Project ID: Warren McMillan 2

Checklist Completed by: JG

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 10/10/19

Airbill #: N/A

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

Cooler Number/Temperature: 1 9.0 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: 7003

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"/>		<u>Same</u>
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<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 checked="" 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) JG

Date/Time Reviewed 10/11/19

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

**WSS2@8'**

**10/9/2019 2:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y910171-01 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.00200	mg/kg	1	B9J1002	KDK	10/10/2019	10/11/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	<b>12.3</b>	5.00	"	25	"	KDK	"	10/11/2019	

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"		10/11/2019	
Surrogate: Toluene-d8	91.7 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"		10/11/2019	

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

Diesel (C10-C28)	<b>264</b>	50.0	mg/kg	1	B9J1005	TEM	10/10/2019	10/10/2019	
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Surrogate: o-Terphenyl	81.4 %	50-150			"	"		"	
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 Project Number: [none]  
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**SWSS2@8'**

**10/9/2019 2:17:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y910171-02 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.00200	mg/kg	1	B9J1002	KDK	10/10/2019	10/11/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	10/11/2019	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"		10/11/2019	
Surrogate: Toluene-d8	100 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"		"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9J1005	TEM	10/10/2019	10/10/2019	U
Surrogate: o-Terphenyl	81.3 %	50-150			"	"		"	

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

**SSS4@8'**  
**10/9/2019 2:19:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y910171-03 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.00200	mg/kg	1	B9J1002	KDK	10/10/2019	10/11/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	10/11/2019	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"		10/11/2019	
Surrogate: Toluene-d8	98.5 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"		"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9J1005	TEM	10/10/2019	10/10/2019	U
Surrogate: o-Terphenyl	81.0 %	50-150			"	"		"	

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

**SESS2@8'**  
**10/9/2019 2:21:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y910171-04 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.00200	mg/kg	1	B9J1002	KDK	10/10/2019	10/11/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9J1005	TEM	10/10/2019	10/10/2019	U
Surrogate: o-Terphenyl	79.5 %	50-150			"	"	"	"	

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**SSS3@8'**  
**10/9/2019 2:23:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y910171-05 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.00200	mg/kg	1	B9J1002	KDK	10/10/2019	10/11/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9J1005	TEM	10/10/2019	10/10/2019	U
Surrogate: o-Terphenyl	79.4 %	50-150			"	"	"	"	

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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 B9J1002 - EPA 5030 (soil)**

**Blank (B9J1002-BLK1)**

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

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		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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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 B9J1002 - EPA 5030 (soil)**

**LCS (B9J1002-BS1)**

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

Benzene	0.101	0.00200	mg/kg	0.100		101	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.108	0.00200	"	0.100		108	70-130			
m,p-Xylene	0.233	0.00400	"	0.200		117	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	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 B9J1002 - EPA 5030 (soil)**

<b>Matrix Spike (B9J1002-MS1)</b>	<b>Source: Y910158-01</b>			<b>Prepared: 10/10/2019 Analyzed: 10/10/2019</b>						
Benzene	0.0871	0.00200	mg/kg	0.100	ND	87.1	70-130			
Toluene	0.0892	0.00200	"	0.100	ND	89.2	70-130			
Ethylbenzene	0.0958	0.00200	"	0.100	ND	95.8	70-130			
m,p-Xylene	0.209	0.00400	"	0.200	ND	104	70-130			
o-Xylene	0.0965	0.00200	"	0.100	ND	96.5	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>104</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>101</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>106</i>	<i>70-130</i>			

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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 B9J1002 - EPA 5030 (soil)

Matrix Spike Dup (B9J1002-MSD1)	Source: Y910158-01			Prepared: 10/10/2019 Analyzed: 10/10/2019						
Benzene	0.0768	0.00200	mg/kg	0.100	ND	76.8	70-130	12.5	20	
Toluene	0.0786	0.00200	"	0.100	ND	78.6	70-130	12.6	20	
Ethylbenzene	0.0847	0.00200	"	0.100	ND	84.7	70-130	12.3	20	
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.3	70-130	14.4	20	
o-Xylene	0.0874	0.00200	"	0.100	ND	87.4	70-130	9.81	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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
<b>Batch B9J1005 - EPA 3580</b>										
<b>Blank (B9J1005-BLK1)</b>										
					Prepared: 10/10/2019 Analyzed: 10/10/2019					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	19		"	25.0		76.1	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

SRC Energy  
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 Project Number: [none]  
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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 B9J1005 - EPA 3580**

**LCS (B9J1005-BS1)**

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

Diesel (C10-C28)	959	50.0	mg/kg	1000		95.9	70-130			
Surrogate: o-Terphenyl	48		"	50.0		96.5	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 B9J1005 - EPA 3580**

<b>Matrix Spike (B9J1005-MS1)</b>	<b>Source: Y910171-01</b>			Prepared: 10/10/2019 Analyzed: 10/10/2019						
Diesel (C10-C28)	1340	50.0	mg/kg	1000	264	108	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.1	50-150			

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Jen Pellegrini, Project Manager

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
<b>Batch B9J1005 - EPA 3580</b>										
<b>Matrix Spike Dup (B9J1005-MSD1)</b>		<b>Source: Y910171-01</b>			Prepared: 10/10/2019 Analyzed: 10/10/2019					
Diesel (C10-C28)	1170	50.0	mg/kg	1000	264	90.6	70-130	13.6	35	
Surrogate: o-Terphenyl	47		"	50.0		94.0	50-150			

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*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, Project Manager

SRC Energy  
5400 W 11th Street  
Greely CO 80634

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

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**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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Jen Pellegrini, Project Manager