



May 15, 2019

SRC Energy

Dave Castro

5400 W 11th Street

Greely

CO 80634

Project Name - Conrad 44-1 Cleanup Confirmation Project Number - [none]

Attached are your analytical results for Conrad 44-1 Cleanup Confirmation received by Origins Laboratory, Inc. May 14, 2019. This project is associated with Origins project number Y905211-01.

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: Conrad 44-1 Cleanup Confirmation

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS02@13"	Y905211-01	Soil	May 14, 2019 9:00	05/14/2019 15:35

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Origins Laboratory, Inc.

Jeff Pellgrini

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SRC Energy
5400 W 11th Street
Greely CO 80634

Dave Castro
Project Number: [none]
Project: Conrad 44-1 Cleanup Confirmation

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y905211

Client: SRC Energy

Client Project ID: Conrad 44-1

Checklist Completed by: JG

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

Date/time completed: 5/14/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.8 °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"/>	<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 ⁽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 type="checkbox"/>	<input checked="" 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 5/14/19

Origins Laboratory, Inc.

Jen Pellegrini

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Jen Pellegrini, Project Manager

SRC Energy
5400 W 11th Street
Greely CO 80634

Dave Castro
Project Number: [none]
Project: Conrad 44-1 Cleanup Confirmation

SS02@13"

5/14/2019 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905211-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9E1408	KDK	05/14/2019	05/14/2019	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	95.6 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9E1409	JTD	05/14/2019	05/14/2019	U
Surrogate: o-Terphenyl	103 %	50-150			"		"	"	

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Greely CO 80634

Dave Castro
Project Number: [none]
Project: Conrad 44-1 Cleanup Confirmation

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 B9E1408 - EPA 5030 (soil)										
Blank (B9E1408-BLK1)					Prepared: 05/14/2019 Analyzed: 05/14/2019					
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		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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Dave Castro
Project Number: [none]
Project: Conrad 44-1 Cleanup Confirmation

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 B9E1408 - EPA 5030 (soil)

LCS (B9E1408-BS1)

Prepared: 05/14/2019 Analyzed: 05/14/2019

Benzene	0.109	0.00200	mg/kg	0.100		109	70-130			
Toluene	0.114	0.00200	"	0.100		114	70-130			
Ethylbenzene	0.116	0.00200	"	0.100		116	70-130			
m,p-Xylene	0.188	0.00400	"	0.200		93.8	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

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Dave Castro
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Project: Conrad 44-1 Cleanup Confirmation

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 B9E1408 - EPA 5030 (soil)

Matrix Spike (B9E1408-MS1)		Source: Y905208-01			Prepared: 05/14/2019 Analyzed: 05/14/2019					
Benzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
Toluene	0.110	0.00200	"	0.100	ND	110	70-130			
Ethylbenzene	0.117	0.00200	"	0.100	ND	117	70-130			
m,p-Xylene	0.186	0.00400	"	0.200	ND	93.2	70-130			
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Dave Castro
Project Number: [none]
Project: Conrad 44-1 Cleanup Confirmation

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 B9E1408 - EPA 5030 (soil)										
Matrix Spike Dup (B9E1408-MSD1)					Source: Y905208-01					Prepared: 05/14/2019 Analyzed: 05/14/2019
Benzene	0.0922	0.00200	mg/kg	0.100	ND	92.2	70-130	12.9	20	
Toluene	0.0981	0.00200	"	0.100	ND	98.1	70-130	11.5	20	
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	9.65	20	
m,p-Xylene	0.169	0.00400	"	0.200	ND	84.7	70-130	9.56	20	
o-Xylene	0.0949	0.00200	"	0.100	ND	94.9	70-130	8.47	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	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 B9E1409 - EPA 3580

Blank (B9E1409-BLK1)

Prepared: 05/14/2019 Analyzed: 05/14/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	51		"	50.0		101	50-150			

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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 B9E1409 - EPA 3580

LCS (B9E1409-BS1)

Prepared: 05/14/2019 Analyzed: 05/14/2019

Diesel (C10-C28)	1070	50.0	mg/kg	1000		107	70-130			
Surrogate: o-Terphenyl	60		"	50.0		121	50-150			

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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 B9E1409 - EPA 3580

Matrix Spike (B9E1409-MS1)		Source: Y905208-01			Prepared: 05/14/2019 Analyzed: 05/14/2019					
Diesel (C10-C28)	860	50.0	mg/kg	1000	ND	86.0	70-130			
Surrogate: o-Terphenyl	48		"	50.0		95.1	50-150			

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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 B9E1409 - EPA 3580

Matrix Spike Dup (B9E1409-MSD1)		Source: Y905208-01			Prepared: 05/14/2019 Analyzed: 05/14/2019					
Diesel (C10-C28)	1100	50.0	mg/kg	1000	ND	110	70-130	24.3	35	
Surrogate: o-Terphenyl	60		"	50.0		119	50-150			

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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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