

April 30, 2018

SRC Energy

Dave Castro

5400 W 11th Street

Greely

CO 80634

Project Name - 146 Company TB Vault Pit

Project Number - [none]

Attached are your analytical results for 146 Company TB Vault Pit received by Origins Laboratory, Inc. April 24, 2018. This project is associated with Origins project number Y804384-01.

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: 146 Company TB Vault Pit

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ESS @ 2.5'	Y804384-01	Soil	April 23, 2018 9:21	04/24/2018 16:27
BSS @ 6'	Y804384-02	Soil	April 23, 2018 9:28	04/24/2018 16:27

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: 146 Company TB Vault Pit

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y804384 Client: SRC Energy
 Client Project ID: 146 Company TB Vault Pit
 Checklist Completed by: JG Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 4/24/2018 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)
 Cooler Number/Temperature: 1, 5.4 °C _____ °C _____ °C _____ °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"/>			
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"/>	<input checked="" type="checkbox"/>		pH
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 analysis 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.

Reviewed by: [Signature] (Project Manager) Date/Time Reviewed: 4-24-18

Origins Laboratory, Inc.

Jefe Pellegrini

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SRC Energy
 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: 146 Company TB Vault Pit

ESS @ 2.5'
4/23/2018 9:21:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804384-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8D2503	04/25/2018	04/27/2018	U
<i>Surrogate: o-Terphenyl</i>	92.7 %	59-131			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8D2502	04/25/2018	04/25/2018	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.3 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	98.0 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.2 %	70-130			"	"	"	

Metals (Saturated Paste Prep)

Calcium	24.47		me/L	1	'[none]'	04/26/2018	04/27/2018	
Magnesium	7.46		"	"	"	"	"	
Sodium	2.32		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.15		pH Units	1	B8D2504	04/25/2018	04/25/2018	
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SRC Energy
5400 W 11th Street
Greely CO 80634

Dave Castro
Project Number: [none]
Project: 146 Company TB Vault Pit

ESS @ 2.5'

4/23/2018 9:21:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804384-01 (Soil)

SAR by 20B Saturated Paste

SAR	0.58			1	'[none]'	04/26/2018	04/27/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.258		mmhos/cm	1	B8D2505	04/25/2018	04/25/2018	
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Jen Pellegrini, Project Manager

SRC Energy
 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: 146 Company TB Vault Pit

BSS @ 6'
4/23/2018 9:28:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804384-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8D2503	04/25/2018	04/27/2018	U
Surrogate: o-Terphenyl	80.5 %	59-131			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	0.697	0.200	mg/kg	1	B8D2502	04/25/2018	04/25/2018	
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	0.009	0.002	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

Origins Laboratory, Inc.



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 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: 146 Company TB Vault Pit

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B8D2502 - EPA 5030 (soil)

Blank (B8D2502-BLK1)

Prepared: 04/25/2018 Analyzed: 04/25/2018

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	57		ug/kg	62.5		91.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.5	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - 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 B8D2502 - EPA 5030 (soil)

Blank (B8D2502-BLK2)

Prepared: 04/25/2018 Analyzed: 04/25/2018

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		90.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - 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 B8D2502 - EPA 5030 (soil)

LCS (B8D2502-BS1)

Prepared: 04/25/2018 Analyzed: 04/25/2018

Benzene	0.091	0.002	mg/kg	0.100		91.3	77.1-124			
Toluene	0.091	0.002	"	0.100		91.0	74.5-128			
Ethylbenzene	0.093	0.002	"	0.100		93.1	66.4-127			
m,p-Xylene	0.173	0.004	"	0.200		86.6	76.6-124			
o-Xylene	0.092	0.002	"	0.100		91.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	54		ug/kg	62.5		86.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - 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 B8D2502 - EPA 5030 (soil)

LCS (B8D2502-BS2)

Prepared: 04/25/2018 Analyzed: 04/25/2018

Benzene	0.086	0.002	mg/kg	0.100		85.7	77.1-124			
Toluene	0.087	0.002	"	0.100		87.0	74.5-128			
Ethylbenzene	0.089	0.002	"	0.100		89.1	66.4-127			
m,p-Xylene	0.163	0.004	"	0.200		81.4	76.6-124			
o-Xylene	0.086	0.002	"	0.100		86.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	54		ug/kg	62.5		85.9	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - 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 B8D2502 - EPA 5030 (soil)

Matrix Spike (B8D2502-MS1)	Source: Y804378-01			Prepared: 04/25/2018 Analyzed: 04/25/2018						
Benzene	0.081	0.002	mg/kg	0.100	ND	80.9	71.8-126			
Toluene	0.079	0.002	"	0.100	ND	78.9	65.1-130			
Ethylbenzene	0.080	0.002	"	0.100	ND	80.2	62.2-130			
m,p-Xylene	0.149	0.004	"	0.200	ND	74.7	46.5-137			
o-Xylene	0.080	0.002	"	0.100	ND	79.8	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		92.5	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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SRC Energy
 5400 W 11th Street
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Dave Castro
 Project Number: [none]
 Project: 146 Company TB Vault Pit

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B8D2502 - EPA 5030 (soil)

Matrix Spike (B8D2502-MS2)	Source: Y804378-02			Prepared: 04/25/2018 Analyzed: 04/25/2018						
Benzene	0.088	0.002	mg/kg	0.100	ND	87.6	71.8-126			
Toluene	0.086	0.002	"	0.100	ND	86.5	65.1-130			
Ethylbenzene	0.089	0.002	"	0.100	ND	88.9	62.2-130			
m,p-Xylene	0.166	0.004	"	0.200	ND	82.8	46.5-137			
o-Xylene	0.088	0.002	"	0.100	ND	88.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		92.6	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: 146 Company TB Vault Pit

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B8D2502 - EPA 5030 (soil)

Matrix Spike Dup (B8D2502-MSD1)	Source: Y804378-01			Prepared: 04/25/2018 Analyzed: 04/25/2018						
Benzene	0.099	0.002	mg/kg	0.100	ND	98.6	71.8-126	19.7	11.3	QR-02
Toluene	0.099	0.002	"	0.100	ND	99.4	65.1-130	23.0	15.4	QR-02
Ethylbenzene	0.102	0.002	"	0.100	ND	102	62.2-130	24.2	19.6	QR-02
m,p-Xylene	0.190	0.004	"	0.200	ND	94.9	46.5-137	23.9	19.2	QR-02
o-Xylene	0.099	0.002	"	0.100	ND	99.0	54.2-134	21.5	17.9	QR-02
Surrogate: 1,2-Dichloroethane-d4	57		ug/kg	62.5		91.3	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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SRC Energy
 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: 146 Company TB Vault Pit

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B8D2502 - EPA 5030 (soil)

Matrix Spike Dup (B8D2502-MSD2)	Source: Y804378-02			Prepared: 04/25/2018 Analyzed: 04/25/2018						
Benzene	0.098	0.002	mg/kg	0.100	ND	98.1	71.8-126	11.4	11.3	QR-02
Toluene	0.098	0.002	"	0.100	ND	97.6	65.1-130	12.1	15.4	
Ethylbenzene	0.102	0.002	"	0.100	ND	102	62.2-130	14.0	19.6	
m,p-Xylene	0.190	0.004	"	0.200	ND	94.8	46.5-137	13.5	19.2	
o-Xylene	0.099	0.002	"	0.100	ND	98.7	54.2-134	11.3	17.9	
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		93.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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SRC Energy
 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: 146 Company TB Vault Pit

Volatile Organic Compounds by GC/MS SW846 8260C - 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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Extractable Petroleum Hydrocarbons by 8015C - 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 B8D2503 - EPA 3550B

Blank (B8D2503-BLK1)

Prepared: 04/25/2018 Analyzed: 04/25/2018

Diesel (C10-C28) ND 50.0 mg/kg U

Surrogate: o-Terphenyl 45 " 50.0 89.9 59-131

Blank (B8D2503-BLK2)

Prepared: 04/25/2018 Analyzed: 04/25/2018

Diesel (C10-C28) ND 50.0 mg/kg U

Surrogate: o-Terphenyl 41 " 50.0 81.3 59-131

LCS (B8D2503-BS1)

Prepared: 04/25/2018 Analyzed: 04/25/2018

Diesel (C10-C28) 1170 50.0 mg/kg 1000 117 64-121

Surrogate: o-Terphenyl 54 " 50.0 108 59-131

LCS (B8D2503-BS2)

Prepared: 04/25/2018 Analyzed: 04/25/2018

Diesel (C10-C28) 1150 50.0 mg/kg 1000 115 64-121

Surrogate: o-Terphenyl 54 " 50.0 108 59-131

Matrix Spike (B8D2503-MS1)

Source: Y804374-01

Prepared: 04/25/2018 Analyzed: 04/25/2018

Diesel (C10-C28) 1210 50.0 mg/kg 1000 ND 121 53-125

Surrogate: o-Terphenyl 55 " 50.0 110 59-131

Matrix Spike (B8D2503-MS2)

Source: Y804378-01

Prepared: 04/25/2018 Analyzed: 04/25/2018

Diesel (C10-C28) 1250 50.0 mg/kg 1000 ND 125 53-125

Surrogate: o-Terphenyl 52 " 50.0 103 59-131

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SRC Energy
 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: 146 Company TB Vault Pit

Extractable Petroleum Hydrocarbons by 8015C - 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 B8D2503 - EPA 3550B

Matrix Spike Dup (B8D2503-MSD1)		Source: Y804374-01			Prepared: 04/25/2018 Analyzed: 04/25/2018					
Diesel (C10-C28)	1240	50.0	mg/kg	1000	ND	124	53-125	2.76	20	
Surrogate: o-Terphenyl	54		"	50.0		109	59-131			
Matrix Spike Dup (B8D2503-MSD2)		Source: Y804378-01			Prepared: 04/25/2018 Analyzed: 04/25/2018					
Diesel (C10-C28)	1220	50.0	mg/kg	1000	ND	122	53-125	1.88	20	
Surrogate: o-Terphenyl	50		"	50.0		100	59-131			

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SRC Energy
 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: 146 Company TB Vault Pit

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8D2504 - NO PREP										
Duplicate (B8D2504-DUP1)		Source: Y804382-01			Prepared: 04/25/2018 Analyzed: 04/25/2018					
pH	8.58		pH Units		8.41			2.00	25	
Batch B8D2505 - NO PREP										
Blank (B8D2505-BLK1)		Prepared: 04/25/2018 Analyzed: 04/25/2018								
Specific Conductance (EC)	0.00330		mmhos/cm							
Duplicate (B8D2505-DUP1)		Source: Y804382-01			Prepared: 04/25/2018 Analyzed: 04/25/2018					
Specific Conductance (EC)	0.0792		mmhos/cm		0.0828			4.44	25	

Origins Laboratory, Inc.



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: 146 Company TB Vault Pit

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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