

March 29, 2018

SRC Energy

Dave Castro

5400 W 11th Street

Greely

CO 80634

Project Name - Bucklen 12-31 TB Vault Pit

Project Number - [none]

Attached are your analytical results for Bucklen 12-31 TB Vault Pit received by Origins Laboratory, Inc. March 22, 2018. This project is associated with Origins project number Y803390-01.

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: Bucklen 12-31 TB Vault Pit

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WSS@2.5'	Y803390-01	Soil	March 21, 2018 12:31	03/22/2018 16:11
BSS@5.5'	Y803390-02	Soil	March 21, 2018 12:33	03/22/2018 16:11

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: Bucklen 12-31 TB Vault Pit

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y803390

Client: SRC Energy

Client Project ID: Bucklen 12-31 TB Vault Pit

Checklist Completed by: Dave Castro

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

Date/time completed: 3-23-12

Airbill #: NA

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

Cooler Number/Temperature: 1.3 °C _____ °C _____ °C _____ °C

Thermometer ID: 1003

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"/>			<u>pH</u>
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 Na ₂ SO 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 (Project Manager) [Signature]

Date/Time Reviewed 3/26/12

Origins Laboratory, Inc.

Jefe Pellegrini

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SRC Energy
 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: Bucklen 12-31 TB Vault Pit

WSS@2.5'
3/21/2018 12:31:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803390-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8C2605	03/26/2018	03/27/2018	U
<i>Surrogate: o-Terphenyl</i>	74.8 %	59-131			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8C2604	03/26/2018	03/27/2018	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>	116 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	94.5 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	100 %	70-130			"	"	"	

Metals (Saturated Paste Prep)

Calcium	2.63		me/L	1	'[none]'	03/26/2018	03/28/2018	
Magnesium	0.80		"	"	"	"	"	
Sodium	0.43		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.14		pH Units	1	B8C2606	03/26/2018	03/26/2018	
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SRC Energy
5400 W 11th Street
Greely CO 80634

Dave Castro
Project Number: [none]
Project: Bucklen 12-31 TB Vault Pit

WSS@2.5'

3/21/2018 12:31:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803390-01 (Soil)

SAR by 20B Saturated Paste

SAR	0.33			1	'[none]'	03/26/2018	03/28/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0738		mmhos/cm	1	B8C2607	03/26/2018	03/26/2018	
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SRC Energy
 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: Bucklen 12-31 TB Vault Pit

BSS@5.5'

3/21/2018 12:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803390-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8C2605	03/26/2018	03/27/2018	U
Surrogate: <i>o</i> -Terphenyl	79.4 %	59-131			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8C2604	03/26/2018	03/27/2018	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	118 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

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Dave Castro
 Project Number: [none]
 Project: Bucklen 12-31 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
Batch B8C2604 - EPA 5030 (soil)										
Blank (B8C2604-BLK1)										
					Prepared: 03/26/2018 Analyzed: 03/26/2018					
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	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	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
Batch B8C2604 - EPA 5030 (soil)										
Blank (B8C2604-BLK2)										
					Prepared: 03/26/2018 Analyzed: 03/26/2018					
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	71		ug/kg	62.5		114	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.7	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 B8C2604 - EPA 5030 (soil)

LCS (B8C2604-BS1)

Prepared: 03/26/2018 Analyzed: 03/26/2018

Benzene	0.109	0.002	mg/kg	0.100		109	77.1-124			
Toluene	0.102	0.002	"	0.100		102	74.5-128			
Ethylbenzene	0.100	0.002	"	0.100		99.8	66.4-127			
m,p-Xylene	0.192	0.004	"	0.200		96.2	76.6-124			
o-Xylene	0.093	0.002	"	0.100		93.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		95.0	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.4	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 B8C2604 - EPA 5030 (soil)

LCS (B8C2604-BS2)

Prepared: 03/26/2018 Analyzed: 03/26/2018

Benzene	0.096	0.002	mg/kg	0.100		96.4	77.1-124			
Toluene	0.087	0.002	"	0.100		87.2	74.5-128			
Ethylbenzene	0.084	0.002	"	0.100		84.3	66.4-127			
m,p-Xylene	0.165	0.004	"	0.200		82.6	76.6-124			
o-Xylene	0.081	0.002	"	0.100		80.8	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.8	70-130			

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SRC Energy
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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 B8C2604 - EPA 5030 (soil)

Matrix Spike (B8C2604-MS1)	Source: Y803344-01			Prepared: 03/26/2018 Analyzed: 03/26/2018						
Benzene	0.103	0.002	mg/kg	0.100	ND	103	71.8-126			
Toluene	0.096	0.002	"	0.100	ND	95.5	65.1-130			
Ethylbenzene	0.093	0.002	"	0.100	ND	92.9	62.2-130			
m,p-Xylene	0.181	0.004	"	0.200	ND	90.4	46.5-137			
o-Xylene	0.087	0.002	"	0.100	ND	87.4	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	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 B8C2604 - EPA 5030 (soil)

Matrix Spike (B8C2604-MS2)	Source: Y803445-03			Prepared: 03/26/2018 Analyzed: 03/26/2018						
Benzene	0.118	0.002	mg/kg	0.100	ND	118	71.8-126			
Toluene	0.109	0.002	"	0.100	ND	109	65.1-130			
Ethylbenzene	0.104	0.002	"	0.100	ND	104	62.2-130			
m,p-Xylene	0.202	0.004	"	0.200	ND	101	46.5-137			
o-Xylene	0.098	0.002	"	0.100	ND	97.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		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: Bucklen 12-31 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 B8C2604 - EPA 5030 (soil)

Matrix Spike Dup (B8C2604-MSD1)	Source: Y803344-01			Prepared: 03/26/2018 Analyzed: 03/26/2018						
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126	4.99	11.3	
Toluene	0.100	0.002	"	0.100	ND	100	65.1-130	4.90	15.4	
Ethylbenzene	0.096	0.002	"	0.100	ND	95.9	62.2-130	3.16	19.6	
m,p-Xylene	0.186	0.004	"	0.200	ND	92.8	46.5-137	2.57	19.2	
o-Xylene	0.089	0.002	"	0.100	ND	89.3	54.2-134	2.13	17.9	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	70-130			

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SRC Energy
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Dave Castro
 Project Number: [none]
 Project: Bucklen 12-31 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 B8C2604 - EPA 5030 (soil)

Matrix Spike Dup (B8C2604-MSD2)	Source: Y803445-03			Prepared: 03/26/2018 Analyzed: 03/26/2018						
Benzene	0.116	0.002	mg/kg	0.100	ND	116	71.8-126	1.38	11.3	
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130	2.25	15.4	
Ethylbenzene	0.105	0.002	"	0.100	ND	105	62.2-130	0.669	19.6	
m,p-Xylene	0.201	0.004	"	0.200	ND	100	46.5-137	0.764	19.2	
o-Xylene	0.097	0.002	"	0.100	ND	96.8	54.2-134	0.700	17.9	
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.2	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.9	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: Bucklen 12-31 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 B8C2605 - EPA 3550B

Blank (B8C2605-BLK1)

Prepared: 03/26/2018 Analyzed: 03/26/2018

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

Surrogate: o-Terphenyl 40 " 50.0 80.9 59-131

Blank (B8C2605-BLK2)

Prepared: 03/26/2018 Analyzed: 03/26/2018

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

Surrogate: o-Terphenyl 44 " 50.0 88.7 59-131

LCS (B8C2605-BS1)

Prepared: 03/26/2018 Analyzed: 03/26/2018

Diesel (C10-C28) 768 50.0 mg/kg 1000 76.8 64-121

Surrogate: o-Terphenyl 46 " 50.0 91.4 59-131

LCS (B8C2605-BS2)

Prepared: 03/26/2018 Analyzed: 03/26/2018

Diesel (C10-C28) 834 50.0 mg/kg 1000 83.4 64-121

Surrogate: o-Terphenyl 46 " 50.0 93.0 59-131

Matrix Spike (B8C2605-MS1)

Source: Y803344-01

Prepared: 03/26/2018 Analyzed: 03/26/2018

Diesel (C10-C28) 828 50.0 mg/kg 1000 ND 82.8 53-125

Surrogate: o-Terphenyl 47 " 50.0 94.0 59-131

Matrix Spike (B8C2605-MS2)

Source: Y803445-03

Prepared: 03/26/2018 Analyzed: 03/27/2018

Diesel (C10-C28) 816 50.0 mg/kg 1000 13.1 80.3 53-125

Surrogate: o-Terphenyl 44 " 50.0 88.1 59-131

Origins Laboratory, Inc.



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 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: Bucklen 12-31 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 B8C2605 - EPA 3550B

Matrix Spike Dup (B8C2605-MSD1)		Source: Y803344-01			Prepared: 03/26/2018 Analyzed: 03/26/2018					
Diesel (C10-C28)	785	50.0	mg/kg	1000	ND	78.5	53-125	5.37	20	
Surrogate: o-Terphenyl	44		"	50.0		88.7	59-131			
Matrix Spike Dup (B8C2605-MSD2)		Source: Y803445-03			Prepared: 03/26/2018 Analyzed: 03/27/2018					
Diesel (C10-C28)	829	50.0	mg/kg	1000	13.1	81.6	53-125	1.57	20	
Surrogate: o-Terphenyl	46		"	50.0		91.6	59-131			

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SRC Energy
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 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: Bucklen 12-31 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 B8C2606 - NO PREP										
Duplicate (B8C2606-DUP1)		Source: Y803342-01			Prepared: 03/26/2018 Analyzed: 03/26/2018					
pH	6.60		pH Units		6.60			0.00	25	
Batch B8C2607 - NO PREP										
Blank (B8C2607-BLK1)		Prepared: 03/26/2018 Analyzed: 03/26/2018								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B8C2607-DUP1)		Source: Y803342-01			Prepared: 03/26/2018 Analyzed: 03/26/2018					
Specific Conductance (EC)	0.218		mmhos/cm		0.236			8.16	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.

SRC Energy
5400 W 11th Street
Greely CO 80634

Dave Castro
Project Number: [none]
Project: Bucklen 12-31 TB Vault Pit

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