

January 30, 2018

SRC Energy

Dave Castro

5400 W 11th Street

Greely

CO 80634

Project Name - Cletcher TB Vault Pit

Project Number - [none]

Attached are your analytical results for Cletcher TB Vault Pit received by Origins Laboratory, Inc. January 24, 2018. This project is associated with Origins project number Y801337-01.

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: Cletcher TB Vault Pit

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ESS@2.5'	Y801337-01	Soil	January 24, 2018 12:06	01/24/2018 17:00
BSS@8'	Y801337-02	Soil	January 24, 2018 12:16	01/24/2018 17:00

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: Cletcher TB Vault Pit

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4801337

Client: SRC Energy
 Client Project ID: Cletcher TB Vault Pit

Checklist Completed by: Dave Castro
 Date/time completed: 1-24-12

Shipped Via: HS
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: 48

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

Cooler Number/Temperature: / 3.9 °C / _____ °C / _____ °C (Describe) _____ °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 1/25/12

Origins Laboratory, Inc.

Jefe Pellegrini

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SRC Energy
 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: Cletcher TB Vault Pit

ESS@2.5'

1/24/2018 12:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y801337-01 (Soil)

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

Diesel (C10-C28)	62.1	50.0	mg/kg	1	B8A2502	01/25/2018	01/25/2018	
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Surrogate: o-Terphenyl	96.4 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B8A2501	01/25/2018	01/25/2018	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %	70-130			"	"	"	

Metals (Saturated Paste Prep)

Calcium	3.31		me/L	1	'[none]'	01/26/2018	01/29/2018	
Magnesium	1.68		"	"	"	"	"	
Sodium	1.76		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.42		pH Units	1	B8A2503	01/25/2018	01/25/2018	
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SRC Energy
5400 W 11th Street
Greely CO 80634

Dave Castro
Project Number: [none]
Project: Cletcher TB Vault Pit

ESS@2.5'

1/24/2018 12:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y801337-01 (Soil)

SAR by 20B Saturated Paste

SAR	1.11			1	'[none]'	01/26/2018	01/29/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0713		mmhos/cm	1	B8A2504	01/25/2018	01/25/2018	
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Jen Pellegrini, Project Manager

SRC Energy
 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: Cletcher TB Vault Pit

BSS@8'

1/24/2018 12:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y801337-02 (Soil)

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

Diesel (C10-C28)	80.3	50.0	mg/kg	1	B8A2502	01/25/2018	01/25/2018	
Surrogate: <i>o</i> -Terphenyl	89.2 %	59-131			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	12.7	5.00	mg/kg	25	B8A2501	01/25/2018	01/25/2018	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	0.057	0.050	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.4 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Dave Castro
 Project Number: [none]
 Project: Cletcher 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 B8A2501 - EPA 5030 (soil)										
Blank (B8A2501-BLK1)										
					Prepared: 01/25/2018 Analyzed: 01/25/2018					
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	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.4	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 B8A2501 - EPA 5030 (soil)

Blank (B8A2501-BLK2)

Prepared: 01/25/2018 Analyzed: 01/25/2018

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	70		ug/kg	62.5		113	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	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 B8A2501 - EPA 5030 (soil)

LCS (B8A2501-BS1)

Prepared: 01/25/2018 Analyzed: 01/25/2018

Benzene	0.104	0.002	mg/kg	0.100		104	77.1-124			
Toluene	0.101	0.002	"	0.100		101	74.5-128			
Ethylbenzene	0.095	0.002	"	0.100		95.2	66.4-127			
m,p-Xylene	0.192	0.004	"	0.200		96.1	76.6-124			
o-Xylene	0.101	0.002	"	0.100		101	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.0	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 B8A2501 - EPA 5030 (soil)

LCS (B8A2501-BS2)

Prepared: 01/25/2018 Analyzed: 01/25/2018

Benzene	0.099	0.002	mg/kg	0.100		99.2	77.1-124			
Toluene	0.098	0.002	"	0.100		97.8	74.5-128			
Ethylbenzene	0.095	0.002	"	0.100		95.0	66.4-127			
m,p-Xylene	0.193	0.004	"	0.200		96.6	76.6-124			
o-Xylene	0.100	0.002	"	0.100		100	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	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 B8A2501 - EPA 5030 (soil)

Matrix Spike (B8A2501-MS1)	Source: Y801337-01			Prepared: 01/25/2018 Analyzed: 01/25/2018						
Benzene	2.26	0.050	mg/kg	2.50	ND	90.4	71.8-126			
Toluene	2.22	0.050	"	2.50	0.022	88.1	65.1-130			
Ethylbenzene	2.15	0.050	"	2.50	0.019	85.3	62.2-130			
m,p-Xylene	4.38	0.100	"	5.00	0.037	86.8	46.5-137			
o-Xylene	2.28	0.050	"	2.50	0.016	90.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.0	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.3	70-130			

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 Project: Cletcher 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 B8A2501 - EPA 5030 (soil)

Matrix Spike (B8A2501-MS2)	Source: Y801337-02			Prepared: 01/25/2018 Analyzed: 01/25/2018						
Benzene	2.44	0.050	mg/kg	2.50	ND	97.5	71.8-126			
Toluene	2.41	0.050	"	2.50	ND	96.3	65.1-130			
Ethylbenzene	2.29	0.050	"	2.50	0.030	90.4	62.2-130			
m,p-Xylene	4.68	0.100	"	5.00	0.060	92.3	46.5-137			
o-Xylene	2.48	0.050	"	2.50	0.057	97.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		93.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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SRC Energy
 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: Cletcher 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 B8A2501 - EPA 5030 (soil)

Matrix Spike Dup (B8A2501-MSD1)	Source: Y801337-01			Prepared: 01/25/2018 Analyzed: 01/25/2018						
Benzene	2.32	0.050	mg/kg	2.50	ND	92.8	71.8-126	2.66	11.3	
Toluene	2.29	0.050	"	2.50	0.022	90.6	65.1-130	2.75	15.4	
Ethylbenzene	2.18	0.050	"	2.50	0.019	86.4	62.2-130	1.22	19.6	
m,p-Xylene	4.40	0.100	"	5.00	0.037	87.2	46.5-137	0.513	19.2	
o-Xylene	2.30	0.050	"	2.50	0.016	91.5	54.2-134	1.09	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.0	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.8	70-130			

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 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: Cletcher 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 B8A2501 - EPA 5030 (soil)

Matrix Spike Dup (B8A2501-MSD2)	Source: Y801337-02			Prepared: 01/25/2018 Analyzed: 01/25/2018						
Benzene	2.50	0.050	mg/kg	2.50	ND	100	71.8-126	2.47	11.3	
Toluene	2.42	0.050	"	2.50	ND	96.7	65.1-130	0.456	15.4	
Ethylbenzene	2.31	0.050	"	2.50	0.030	91.2	62.2-130	0.891	19.6	
m,p-Xylene	4.64	0.100	"	5.00	0.060	91.7	46.5-137	0.697	19.2	
o-Xylene	2.48	0.050	"	2.50	0.057	97.0	54.2-134	0.101	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.9	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.6	70-130			

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SRC Energy
 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: Cletcher 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 B8A2502 - EPA 3550B

Blank (B8A2502-BLK1)

Prepared: 01/25/2018 Analyzed: 01/25/2018

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

Surrogate: o-Terphenyl 53 " 50.0 105 59-131

Blank (B8A2502-BLK2)

Prepared: 01/25/2018 Analyzed: 01/25/2018

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

Surrogate: o-Terphenyl 46 " 50.0 92.0 59-131

LCS (B8A2502-BS1)

Prepared: 01/25/2018 Analyzed: 01/25/2018

Diesel (C10-C28) 1010 50.0 mg/kg 1000 101 64-121

Surrogate: o-Terphenyl 52 " 50.0 104 59-131

LCS (B8A2502-BS2)

Prepared: 01/25/2018 Analyzed: 01/25/2018

Diesel (C10-C28) 950 50.0 mg/kg 1000 95.0 64-121

Surrogate: o-Terphenyl 51 " 50.0 101 59-131

Matrix Spike (B8A2502-MS1)

Source: Y801337-01

Prepared: 01/25/2018 Analyzed: 01/25/2018

Diesel (C10-C28) 1020 50.0 mg/kg 1000 62.1 95.7 53-125

Surrogate: o-Terphenyl 49 " 50.0 98.4 59-131

Matrix Spike (B8A2502-MS2)

Source: Y801337-02

Prepared: 01/25/2018 Analyzed: 01/25/2018

Diesel (C10-C28) 1060 50.0 mg/kg 1000 80.3 98.0 53-125

Surrogate: o-Terphenyl 57 " 50.0 114 59-131

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SRC Energy
 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: Cletcher 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
Batch B8A2502 - EPA 3550B										
Matrix Spike Dup (B8A2502-MSD1)		Source: Y801337-01			Prepared: 01/25/2018 Analyzed: 01/25/2018					
Diesel (C10-C28)	889	50.0	mg/kg	1000	62.1	82.7	53-125	13.6	20	
Surrogate: o-Terphenyl	45		"	50.0		90.6	59-131			
Matrix Spike Dup (B8A2502-MSD2)		Source: Y801337-02			Prepared: 01/25/2018 Analyzed: 01/25/2018					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	80.3	97.1	53-125	0.880	20	
Surrogate: o-Terphenyl	54		"	50.0		108	59-131			

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SRC Energy
 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: Cletcher 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 B8A2503 - NO PREP										
Duplicate (B8A2503-DUP1)		Source: Y801337-01			Prepared: 01/25/2018 Analyzed: 01/25/2018					
pH	8.51		pH Units		8.42			1.06	25	
Batch B8A2504 - NO PREP										
Blank (B8A2504-BLK1)		Prepared: 01/25/2018 Analyzed: 01/25/2018								
Specific Conductance (EC)	0.00210		mmhos/cm							
Duplicate (B8A2504-DUP1)		Source: Y801337-01			Prepared: 01/25/2018 Analyzed: 01/25/2018					
Specific Conductance (EC)	0.0763		mmhos/cm		0.0713			6.78	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: Cletcher 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