

April 03, 2018

SRC Energy

Dave Castro

5400 W 11th Street

Greely

CO 80634

Project Name - SRC Airport TB Vault

Project Number - [none]

Attached are your analytical results for SRC Airport TB Vault received by Origins Laboratory, Inc. March 27, 2018. This project is associated with Origins project number Y803479-01.

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: SRC Airport TB Vault

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NSS@2.5'	Y803479-01	Soil	March 27, 2018 12:37	03/27/2018 16:46
BSS@7'	Y803479-02	Soil	March 27, 2018 12:45	03/27/2018 16:46

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: SRC Airport TB Vault

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1503479 Client: SRC Energy
 Client Project ID: SRC Airport TB Vault
 Checklist Completed by: [Signature] Shipped Via: [Signature]
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 3-29-12 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)
 Cooler Number/Temperature: / 2.4 °C / _____ °C / _____ °C / _____ °C
 Thermometer ID: 603

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"/>			pt
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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]

3-29-12
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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SRC Energy
 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: SRC Airport TB Vault

NSS@2.5'
3/27/2018 12:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803479-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8C2805	03/28/2018	03/29/2018	U
<i>Surrogate: o-Terphenyl</i>	85.2 %	59-131			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8C2804	03/28/2018	03/29/2018	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>	91.0 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	98.6 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	96.4 %	70-130			"	"	"	

Metals (Saturated Paste Prep)

Calcium	2.83		me/L	1	'[none]'	03/29/2018	04/02/2018	
Magnesium	0.99		"	"	"	"	"	
Sodium	0.30		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.27		pH Units	1	B8C2808	03/28/2018	03/29/2018	
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SRC Energy
5400 W 11th Street
Greely CO 80634

Dave Castro
Project Number: [none]
Project: SRC Airport TB Vault

NSS@2.5'

3/27/2018 12:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803479-01 (Soil)

SAR by 20B Saturated Paste

SAR	0.22			1	'[none]'	03/29/2018	04/02/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0590		mmhos/cm	1	B8C2809	03/28/2018	03/29/2018	
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Jen Pellegrini, Project Manager

SRC Energy
 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: SRC Airport TB Vault

BSS@7'

3/27/2018 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803479-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8C2805	03/28/2018	03/29/2018	U
Surrogate: o-Terphenyl	85.0 %	59-131			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8C2804	03/28/2018	03/29/2018	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	92.5 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.0 %	70-130			"	"	"	

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Dave Castro
 Project Number: [none]
 Project: SRC Airport TB Vault

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 B8C2804 - EPA 5030 (soil)

Blank (B8C2804-BLK1)

Prepared: 03/28/2018 Analyzed: 03/28/2018

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		91.4	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	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 B8C2804 - EPA 5030 (soil)

Blank (B8C2804-BLK2)

Prepared: 03/28/2018 Analyzed: 03/28/2018

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	58		ug/kg	62.5		92.3	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.8	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 B8C2804 - EPA 5030 (soil)

LCS (B8C2804-BS1)

Prepared: 03/28/2018 Analyzed: 03/28/2018

Benzene	0.107	0.002	mg/kg	0.100		107	77.1-124			
Toluene	0.102	0.002	"	0.100		102	74.5-128			
Ethylbenzene	0.095	0.002	"	0.100		94.7	66.4-127			
m,p-Xylene	0.180	0.004	"	0.200		90.1	76.6-124			
o-Xylene	0.087	0.002	"	0.100		87.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	53		ug/kg	62.5		85.2	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.0	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 B8C2804 - EPA 5030 (soil)

LCS (B8C2804-BS2)

Prepared: 03/28/2018 Analyzed: 03/28/2018

Benzene	0.116	0.002	mg/kg	0.100		116	77.1-124			
Toluene	0.112	0.002	"	0.100		112	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.204	0.004	"	0.200		102	76.6-124			
o-Xylene	0.095	0.002	"	0.100		95.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	52		ug/kg	62.5		82.7	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.3	70-130			

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 Project Number: [none]
 Project: SRC Airport TB Vault

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 B8C2804 - EPA 5030 (soil)

Matrix Spike (B8C2804-MS1)	Source: Y803478-01			Prepared: 03/28/2018 Analyzed: 03/28/2018						
Benzene	0.102	0.002	mg/kg	0.100	ND	102	71.8-126			
Toluene	0.089	0.002	"	0.100	0.0007	88.8	65.1-130			
Ethylbenzene	0.094	0.002	"	0.100	0.002	92.7	62.2-130			
m,p-Xylene	0.181	0.004	"	0.200	0.007	86.7	46.5-137			
o-Xylene	0.099	0.002	"	0.100	0.009	90.7	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	57		"	62.5		91.5	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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SRC Energy
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Dave Castro
 Project Number: [none]
 Project: SRC Airport TB Vault

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 B8C2804 - EPA 5030 (soil)

Matrix Spike (B8C2804-MS2)	Source: Y803383-01			Prepared: 03/28/2018 Analyzed: 03/28/2018						
Benzene	0.114	0.002	mg/kg	0.100	ND	114	71.8-126			
Toluene	0.113	0.002	"	0.100	ND	113	65.1-130			
Ethylbenzene	0.097	0.002	"	0.100	ND	96.5	62.2-130			
m,p-Xylene	0.190	0.004	"	0.200	ND	95.2	46.5-137			
o-Xylene	0.095	0.002	"	0.100	ND	95.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	52		ug/kg	62.5		83.1	70-130			
Surrogate: Toluene-d8	68		"	62.5		108	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: SRC Airport TB Vault

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 B8C2804 - EPA 5030 (soil)

Matrix Spike Dup (B8C2804-MSD1)	Source: Y803478-01			Prepared: 03/28/2018 Analyzed: 03/28/2018						
Benzene	0.103	0.002	mg/kg	0.100	ND	103	71.8-126	0.254	11.3	
Toluene	0.092	0.002	"	0.100	0.0007	92.4	65.1-130	4.00	15.4	
Ethylbenzene	0.090	0.002	"	0.100	0.002	87.9	62.2-130	5.22	19.6	
m,p-Xylene	0.172	0.004	"	0.200	0.007	82.2	46.5-137	5.16	19.2	
o-Xylene	0.089	0.002	"	0.100	0.009	80.3	54.2-134	11.0	17.9	
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.6	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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Dave Castro
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 Project: SRC Airport TB Vault

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 B8C2804 - EPA 5030 (soil)

Matrix Spike Dup (B8C2804-MSD2)	Source: Y803383-01			Prepared: 03/28/2018 Analyzed: 03/28/2018						
Benzene	0.118	0.002	mg/kg	0.100	ND	118	71.8-126	3.85	11.3	
Toluene	0.116	0.002	"	0.100	ND	116	65.1-130	2.55	15.4	
Ethylbenzene	0.101	0.002	"	0.100	ND	101	62.2-130	4.87	19.6	
m,p-Xylene	0.190	0.004	"	0.200	ND	95.2	46.5-137	0.0315	19.2	
o-Xylene	0.095	0.002	"	0.100	ND	95.1	54.2-134	0.00	17.9	
Surrogate: 1,2-Dichloroethane-d4	48		ug/kg	62.5		77.0	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		90.9	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: SRC Airport TB Vault

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 B8C2805 - EPA 3550B

Blank (B8C2805-BLK1)					Prepared: 03/28/2018 Analyzed: 03/28/2018					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	45		"	50.0		90.8	59-131			
Blank (B8C2805-BLK2)					Prepared: 03/28/2018 Analyzed: 03/28/2018					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	46		"	50.0		91.1	59-131			
LCS (B8C2805-BS1)					Prepared: 03/28/2018 Analyzed: 03/28/2018					
Diesel (C10-C28)	802	50.0	mg/kg	1000		80.2	64-121			
Surrogate: o-Terphenyl	47		"	50.0		94.5	59-131			
LCS (B8C2805-BS2)					Prepared: 03/28/2018 Analyzed: 03/28/2018					
Diesel (C10-C28)	808	50.0	mg/kg	1000		80.8	64-121			
Surrogate: o-Terphenyl	46		"	50.0		92.6	59-131			
Matrix Spike (B8C2805-MS1)		Source: Y803478-01			Prepared: 03/28/2018 Analyzed: 03/28/2018					
Diesel (C10-C28)	734	50.0	mg/kg	1000	118	61.6	53-125			
Surrogate: o-Terphenyl	40		"	50.0		79.4	59-131			
Matrix Spike (B8C2805-MS2)		Source: Y803383-01			Prepared: 03/28/2018 Analyzed: 03/28/2018					
Diesel (C10-C28)	892	50.0	mg/kg	1000	ND	89.2	53-125			
Surrogate: o-Terphenyl	51		"	50.0		101	59-131			

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Dave Castro
 Project Number: [none]
 Project: SRC Airport TB Vault

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 B8C2805 - EPA 3550B

Matrix Spike Dup (B8C2805-MSD1)		Source: Y803478-01			Prepared: 03/28/2018 Analyzed: 03/28/2018					
Diesel (C10-C28)	942	50.0	mg/kg	1000	118	82.4	53-125	24.8	20	QR-02
Surrogate: o-Terphenyl	49		"	50.0		98.8	59-131			
Matrix Spike Dup (B8C2805-MSD2)		Source: Y803383-01			Prepared: 03/28/2018 Analyzed: 03/28/2018					
Diesel (C10-C28)	853	50.0	mg/kg	1000	ND	85.3	53-125	4.49	20	
Surrogate: o-Terphenyl	47		"	50.0		94.9	59-131			

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SRC Energy
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 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: SRC Airport TB Vault

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 B8C2808 - NO PREP										
Duplicate (B8C2808-DUP1)		Source: Y803374-01			Prepared: 03/28/2018 Analyzed: 03/29/2018					
pH	7.22		pH Units		7.81			7.85	25	
Batch B8C2809 - NO PREP										
Blank (B8C2809-BLK1)		Prepared: 03/28/2018 Analyzed: 03/29/2018								
Specific Conductance (EC)	0.00240		mmhos/cm							
Duplicate (B8C2809-DUP1)		Source: Y803374-01			Prepared: 03/28/2018 Analyzed: 03/29/2018					
Specific Conductance (EC)	0.0242		mmhos/cm		0.0260			7.17	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: SRC Airport TB Vault

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