

April 03, 2018

SRC Energy

Dave Castro

5400 W 11th Street

Greely

CO 80634

Project Name - Sena TB Vault Pit

Project Number - [none]

Attached are your analytical results for Sena TB Vault Pit received by Origins Laboratory, Inc. March 29, 2018. This project is associated with Origins project number Y803511-01.

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: Sena TB Vault Pit

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WSS @ 2.5'	Y803511-01	Soil	March 28, 2018 10:12	03/29/2018 15:58
BSS @ 7'	Y803511-02	Soil	March 28, 2018 10:18	03/29/2018 15:58

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: Sena TB Vault Pit

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y803511

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

Checklist Completed by: SG
 Date/time completed: 3/29/12

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 561 / 5.6 °C _____ / _____ °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"/>			
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"/>		
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 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 (Project Manager) [Signature]

Date/Time Reviewed 3/30/12

Origins Laboratory, Inc.

[Signature]

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SRC Energy
 5400 W 11th Street
 Greely CO 80634

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

WSS @ 2.5'
3/28/2018 10:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803511-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8D0205	04/02/2018	04/03/2018	U
<i>Surrogate: o-Terphenyl</i>	93.3 %	59-131			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8D0201	04/02/2018	04/02/2018	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>	96.7 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	103 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.4 %	70-130			"	"	"	

Metals (Saturated Paste Prep)

Calcium	28.79		me/L	1	'[none]'	03/30/2018	04/02/2018	
Magnesium	28.93		"	"	"	"	"	
Sodium	12.51		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.92		pH Units	1	B8D0206	04/02/2018	04/02/2018	
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SRC Energy
5400 W 11th Street
Greely CO 80634

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

WSS @ 2.5'

3/28/2018 10:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803511-01 (Soil)

SAR by 20B Saturated Paste

SAR	2.33			1	'[none]'	03/30/2018	04/02/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.702		mmhos/cm	1	B8D0207	04/02/2018	04/02/2018	
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SRC Energy
 5400 W 11th Street
 Greely CO 80634

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

BSS @ 7'
3/28/2018 10:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803511-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8D0205	04/02/2018	04/03/2018	U
<i>Surrogate: o-Terphenyl</i>	90.7 %	59-131			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8D0201	04/02/2018	04/02/2018	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>	99.0 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	104 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	99.2 %	70-130			"	"	"	

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Dave Castro
 Project Number: [none]
 Project: Sena 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 B8D0201 - EPA 5030 (soil)

Blank (B8D0201-BLK1)

Prepared: 04/02/2018 Analyzed: 04/02/2018

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		90.7	70-130			
Surrogate: Toluene-d8	56		"	62.5		90.0	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.3	70-130			

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Dave Castro
 Project Number: [none]
 Project: Sena 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 B8D0201 - EPA 5030 (soil)

Blank (B8D0201-BLK2)

Prepared: 04/02/2018 Analyzed: 04/02/2018

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		92.9	70-130			
Surrogate: Toluene-d8	57		"	62.5		91.3	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	70-130			

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Jen Pellegrini, Project Manager

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Dave Castro
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 Project: Sena 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 B8D0201 - EPA 5030 (soil)

LCS (B8D0201-BS1)

Prepared: 04/02/2018 Analyzed: 04/02/2018

Benzene	0.114	0.002	mg/kg	0.100		114	77.1-124			
Toluene	0.097	0.002	"	0.100		97.5	74.5-128			
Ethylbenzene	0.096	0.002	"	0.100		96.3	66.4-127			
m,p-Xylene	0.182	0.004	"	0.200		91.0	76.6-124			
o-Xylene	0.093	0.002	"	0.100		93.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.4	70-130			
Surrogate: Toluene-d8	57		"	62.5		90.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	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 B8D0201 - EPA 5030 (soil)

LCS (B8D0201-BS2)

Prepared: 04/02/2018 Analyzed: 04/02/2018

Benzene	0.121	0.002	mg/kg	0.100		121	77.1-124			
Toluene	0.108	0.002	"	0.100		108	74.5-128			
Ethylbenzene	0.109	0.002	"	0.100		109	66.4-127			
m,p-Xylene	0.207	0.004	"	0.200		104	76.6-124			
o-Xylene	0.105	0.002	"	0.100		105	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	57		ug/kg	62.5		91.1	70-130			
Surrogate: Toluene-d8	57		"	62.5		91.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

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Jen Pellegrini, Project Manager

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 5400 W 11th Street
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 Project Number: [none]
 Project: Sena 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 B8D0201 - EPA 5030 (soil)

Matrix Spike (B8D0201-MS1)	Source: Y803460-04			Prepared: 04/02/2018 Analyzed: 04/02/2018						
Benzene	0.119	0.002	mg/kg	0.100	ND	119	71.8-126			
Toluene	0.100	0.002	"	0.100	ND	99.7	65.1-130			
Ethylbenzene	0.097	0.002	"	0.100	ND	97.1	62.2-130			
m,p-Xylene	0.185	0.004	"	0.200	ND	92.6	46.5-137			
o-Xylene	0.095	0.002	"	0.100	ND	94.9	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.6	70-130			
Surrogate: Toluene-d8	56		"	62.5		89.8	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.4	70-130			

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Dave Castro
 Project Number: [none]
 Project: Sena 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 B8D0201 - EPA 5030 (soil)

Matrix Spike (B8D0201-MS2)	Source: Y803476-04			Prepared: 04/02/2018 Analyzed: 04/02/2018						
Benzene	0.133	0.002	mg/kg	0.100	ND	133	71.8-126			QM-07
Toluene	0.121	0.002	"	0.100	ND	121	65.1-130			
Ethylbenzene	0.122	0.002	"	0.100	ND	122	62.2-130			
m,p-Xylene	0.234	0.004	"	0.200	ND	117	46.5-137			
o-Xylene	0.117	0.002	"	0.100	ND	117	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	57		ug/kg	62.5		92.0	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

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 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: Sena 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 B8D0201 - EPA 5030 (soil)

Matrix Spike Dup (B8D0201-MSD1)	Source: Y803460-04			Prepared: 04/02/2018 Analyzed: 04/02/2018						
Benzene	0.114	0.002	mg/kg	0.100	ND	114	71.8-126	4.25	11.3	
Toluene	0.094	0.002	"	0.100	ND	93.9	65.1-130	6.03	15.4	
Ethylbenzene	0.090	0.002	"	0.100	ND	90.5	62.2-130	7.04	19.6	
m,p-Xylene	0.174	0.004	"	0.200	ND	86.9	46.5-137	6.32	19.2	
o-Xylene	0.089	0.002	"	0.100	ND	89.2	54.2-134	6.15	17.9	
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	55		"	62.5		88.5	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	70-130			

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 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: Sena 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 B8D0201 - EPA 5030 (soil)

Matrix Spike Dup (B8D0201-MSD2)	Source: Y803476-04			Prepared: 04/02/2018 Analyzed: 04/02/2018						
Benzene	0.099	0.002	mg/kg	0.100	ND	99.2	71.8-126	29.0	11.3	T
Toluene	0.107	0.002	"	0.100	ND	107	65.1-130	12.2	15.4	
Ethylbenzene	0.111	0.002	"	0.100	ND	111	62.2-130	8.84	19.6	
m,p-Xylene	0.213	0.004	"	0.200	ND	107	46.5-137	9.25	19.2	
o-Xylene	0.108	0.002	"	0.100	ND	108	54.2-134	8.59	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		93.7	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

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SRC Energy
 5400 W 11th Street
 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: Sena 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 B8D0205 - EPA 3550B

Blank (B8D0205-BLK1)

Prepared: 04/02/2018 Analyzed: 04/03/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
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Surrogate: o-Terphenyl	46		"	50.0		91.7	59-131			
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Blank (B8D0205-BLK2)

Prepared: 04/02/2018 Analyzed: 04/03/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
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Surrogate: o-Terphenyl	46		"	50.0		92.6	59-131			
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LCS (B8D0205-BS1)

Prepared: 04/02/2018 Analyzed: 04/03/2018

Diesel (C10-C28)	735	50.0	mg/kg	1000		73.5	64-121			
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Surrogate: o-Terphenyl	53		"	50.0		105	59-131			
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LCS (B8D0205-BS2)

Prepared: 04/02/2018 Analyzed: 04/03/2018

Diesel (C10-C28)	768	50.0	mg/kg	1000		76.8	64-121			
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Surrogate: o-Terphenyl	53		"	50.0		107	59-131			
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Matrix Spike (B8D0205-MS1)

Source: Y803482-01

Prepared: 04/02/2018 Analyzed: 04/03/2018

Diesel (C10-C28)	833	50.0	mg/kg	1000	ND	83.3	53-125			
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Surrogate: o-Terphenyl	57		"	50.0		114	59-131			
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Matrix Spike (B8D0205-MS2)

Source: Y804021-02

Prepared: 04/02/2018 Analyzed: 04/03/2018

Diesel (C10-C28)	777	50.0	mg/kg	1000	ND	77.7	53-125			
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Surrogate: o-Terphenyl	53		"	50.0		106	59-131			
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 Greely CO 80634

Dave Castro
 Project Number: [none]
 Project: Sena 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 B8D0205 - EPA 3550B										
Matrix Spike Dup (B8D0205-MSD1)		Source: Y803482-01			Prepared: 04/02/2018 Analyzed: 04/03/2018					
Diesel (C10-C28)	744	50.0	mg/kg	1000	ND	74.4	53-125	11.3	20	
Surrogate: o-Terphenyl	52		"	50.0		104	59-131			
Matrix Spike Dup (B8D0205-MSD2)		Source: Y804021-02			Prepared: 04/02/2018 Analyzed: 04/03/2018					
Diesel (C10-C28)	767	50.0	mg/kg	1000	ND	76.7	53-125	1.29	20	
Surrogate: o-Terphenyl	52		"	50.0		103	59-131			

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: Sena TB Vault Pit

Classical Chemistry Parameters - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8D0206 - NO PREP										
Duplicate (B8D0206-DUP1)		Source: Y803482-01			Prepared: 04/02/2018 Analyzed: 04/02/2018					
pH	7.91		pH Units		7.98			0.881	25	
Batch B8D0207 - NO PREP										
Blank (B8D0207-BLK1)		Prepared: 04/02/2018 Analyzed: 04/02/2018								
Specific Conductance (EC)	0.00220		mmhos/cm							
Duplicate (B8D0207-DUP1)		Source: Y803482-01			Prepared: 04/02/2018 Analyzed: 04/02/2018					
Specific Conductance (EC)	0.0914		mmhos/cm		0.112			20.3	25	

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Dave Castro
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Project: Sena TB Vault Pit

Notes and Definitions

U Sample is Non-Detect.

T The TO-15 analysis is not part of the NELAC accreditation

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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