

January 24, 2019

Olsson Associates

Jason Davidson

1525 Raleigh St, Suite 400

Denver

CO 80204

Project Name - Seltzer PP 4-8 Tank Pull

Project Number - 019-

Attached are your analytical results for Seltzer PP 4-8 Tank Pull received by Origins Laboratory, Inc. January 18, 2019. This project is associated with Origins project number Y901233-01.

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



Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

Jason Davidson
Project Number: 019-
Project: Seltzer PP 4-8 Tank Pull

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N Wall @ 5'	Y901233-01	Soil	January 17, 2019 10:35	01/18/2019 14:10
Base @ 6.5'	Y901233-05	Soil	January 17, 2019 10:44	01/18/2019 14:10

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Olsson Associates
 1525 Raleigh St, Suite 400
 Denver CO 80204

Jason Davidson
 Project Number: 019-
 Project: Seltzer PP 4-8 Tank Pull

4901233

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Client: Olsson Associates
 Address: 1525 Raleigh St., Ste. 400
 Telephone Number: 303-237-2072
 Email Address: jdavidson@olsson.com

Project Manager: Jason Davidson
 Project Name: Seltzer PP 4-8 Tank Pull
 Project Number: 019-
 Samples Collected By: jdavidson@olsson.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis						Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air/Volcano Container #	Other	DTX	PAH	PCB	EC	SMC		
N wall @ 5'	1/17/19	10:35	3					X				X	X	X	X	X	X	1
S wall @ 5'	1/17/19	10:38	1					X				X	X	X				HOLD-Do not run ²
E wall @ 5.5'	1/17/19	10:36	1					X				X	X	X				HOLD-Do not run ³
W wall @ 5.5'	1/17/19	10:41	1					X				X	X	X				HOLD-Do not run ⁴
Base @ 6's	1/17/19	10:44	1					X				X	X	X				5
																		6
																		7
																		8
																		9
																		10
Relinquished By: <u>[Signature]</u>	Date: <u>1/17/19</u>	Time: <u>1700</u>		Received By: <u>[Signature]</u>	Date: <u>1/17/19</u>	Time: <u>1700</u>		Turnaround Time:		Same Day <input type="checkbox"/>		24 Hr <input type="checkbox"/>						
Relinquished By: <u>[Signature]</u>	Date: <u>1/18/19</u>	Time: <u>1410</u>		Received By: <u>[Signature]</u>	Date: <u>1/17/19</u>	Time: <u>1700</u>				48 Hr <input type="checkbox"/>		72 Hr <input type="checkbox"/>						
					Date: <u>1/18/19</u>	Time: <u>1410</u>				Standard <input type="checkbox"/>								

2.70

Origins Laboratory, Inc.

Jefe Pellegrini

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Olsson Associates
 1525 Raleigh St, Suite 400
 Denver CO 80204

Jason Davidson
 Project Number: 019-
 Project: Seltzer PP 4-8 Tank Pull

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1901233

Client: Olsson

Client Project ID: Seltzer PP 4-8 Tank Pull

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 1/18/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2.7 °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 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.

JG
 Reviewed by (Project Manager)

1/21/19
 Date/Time Reviewed

Origins Laboratory, Inc.



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Olsson Associates
 1525 Raleigh St, Suite 400
 Denver CO 80204

Jason Davidson
 Project Number: 019-
 Project: Seltzer PP 4-8 Tank Pull

N Wall @ 5'
1/17/2019 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901233-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9A2103	KDK	01/21/2019	01/21/2019	U
Surrogate: o-Terphenyl	85.3 %	59-131			"	"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9A2102	JTD	01/21/2019	01/21/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.7 %	70-130			"	"	"	"	

Metals (Saturated Paste Prep)

Calcium	18.28		me/L	1	'[none]'		01/21/2019	01/24/2019	
Magnesium	14.11		"	"	"		"	"	
Sodium	7.89		"	"	"		"	"	

pH in Soil by EPA 9045D

pH	7.96		pH Units	1	B9A2104	OLAB	01/21/2019	01/21/2019	
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Jason Davidson
 Project Number: 019-
 Project: Seltzer PP 4-8 Tank Pull

N Wall @ 5'

1/17/2019 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901233-01 (Soil)

SAR by 20B Saturated Paste

SAR	1.96			1	'[none]'		01/21/2019	01/24/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.227	0.00500	mmhos/cm	1	B9A2105	OLAB	01/21/2019	01/21/2019	
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Jason Davidson
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 Project: Seltzer PP 4-8 Tank Pull

Base @ 6.5'

1/17/2019 10:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901233-05 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9A2103	KDK	01/21/2019	01/21/2019	U
Surrogate: <i>o</i> -Terphenyl	79.6 %	59-131			"	"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9A2102	KDK	01/21/2019	01/22/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %	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 B9A2102 - EPA 5030 (soil)

Blank (B9A2102-BLK1)

Prepared: 01/21/2019 Analyzed: 01/21/2019

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	0.11		"	0.125		88.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	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 B9A2102 - EPA 5030 (soil)

Blank (B9A2102-BLK2)

Prepared: 01/21/2019 Analyzed: 01/21/2019

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	0.11		"	0.125		90.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.7	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 B9A2102 - EPA 5030 (soil)

LCS (B9A2102-BS1)

Prepared: 01/21/2019 Analyzed: 01/21/2019

Benzene	0.097	0.002	mg/kg	0.100		96.7	77.1-124			
Toluene	0.096	0.002	"	0.100		95.5	74.5-128			
Ethylbenzene	0.099	0.002	"	0.100		98.7	66.4-127			
m,p-Xylene	0.199	0.004	"	0.200		99.5	76.6-124			
o-Xylene	0.100	0.002	"	0.100		100	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	70-130			

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Jason Davidson
 Project Number: 019-
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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 B9A2102 - EPA 5030 (soil)

LCS (B9A2102-BS2)

Prepared: 01/21/2019 Analyzed: 01/21/2019

Benzene	0.097	0.002	mg/kg	0.100		96.8	77.1-124			
Toluene	0.102	0.002	"	0.100		102	74.5-128			
Ethylbenzene	0.105	0.002	"	0.100		105	66.4-127			
m,p-Xylene	0.212	0.004	"	0.200		106	76.6-124			
o-Xylene	0.107	0.002	"	0.100		107	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		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 B9A2102 - EPA 5030 (soil)

Matrix Spike (B9A2102-MS1)	Source: Y901231-01			Prepared: 01/21/2019 Analyzed: 01/21/2019						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126			
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130			
Ethylbenzene	0.104	0.002	"	0.100	ND	104	62.2-130			
m,p-Xylene	0.209	0.004	"	0.200	ND	105	46.5-137			
o-Xylene	0.107	0.002	"	0.100	0.0004	107	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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Jason Davidson
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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 B9A2102 - EPA 5030 (soil)

Matrix Spike (B9A2102-MS2)	Source: Y901254-05			Prepared: 01/21/2019 Analyzed: 01/21/2019						
Benzene	0.081	0.002	mg/kg	0.100	ND	80.9	71.8-126			
Toluene	0.085	0.002	"	0.100	ND	84.7	65.1-130			
Ethylbenzene	0.087	0.002	"	0.100	ND	87.2	62.2-130			
m,p-Xylene	0.177	0.004	"	0.200	ND	88.6	46.5-137			
o-Xylene	0.089	0.002	"	0.100	ND	89.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Jason Davidson
 Project Number: 019-
 Project: Seltzer PP 4-8 Tank Pull

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 B9A2102 - EPA 5030 (soil)

Matrix Spike Dup (B9A2102-MSD1)	Source: Y901231-01			Prepared: 01/21/2019 Analyzed: 01/21/2019						
Benzene	0.103	0.002	mg/kg	0.100	ND	103	71.8-126	0.984	11.3	
Toluene	0.100	0.002	"	0.100	ND	100	65.1-130	2.10	15.4	
Ethylbenzene	0.103	0.002	"	0.100	ND	103	62.2-130	0.946	19.6	
m,p-Xylene	0.208	0.004	"	0.200	ND	104	46.5-137	0.459	19.2	
o-Xylene	0.107	0.002	"	0.100	0.0004	106	54.2-134	0.543	17.9	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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 B9A2102 - EPA 5030 (soil)

Matrix Spike Dup (B9A2102-MSD2)	Source: Y901254-05			Prepared: 01/21/2019 Analyzed: 01/21/2019						
Benzene	0.076	0.002	mg/kg	0.100	ND	75.6	71.8-126	6.80	11.3	
Toluene	0.080	0.002	"	0.100	ND	79.9	65.1-130	5.86	15.4	
Ethylbenzene	0.082	0.002	"	0.100	ND	81.6	62.2-130	6.61	19.6	
m,p-Xylene	0.166	0.004	"	0.200	ND	82.9	46.5-137	6.67	19.2	
o-Xylene	0.084	0.002	"	0.100	ND	83.5	54.2-134	6.49	17.9	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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Jason Davidson
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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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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 B9A2103 - EPA 3550B

Blank (B9A2103-BLK1)

Prepared: 01/21/2019 Analyzed: 01/21/2019

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

Surrogate: o-Terphenyl 46 " 50.0 92.4 59-131

Blank (B9A2103-BLK2)

Prepared: 01/21/2019 Analyzed: 01/21/2019

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

Surrogate: o-Terphenyl 47 " 50.0 93.8 59-131

LCS (B9A2103-BS1)

Prepared: 01/21/2019 Analyzed: 01/21/2019

Diesel (C10-C28) 800 50.0 mg/kg 1000 80.0 64-121

Surrogate: o-Terphenyl 46 " 50.0 91.3 59-131

LCS (B9A2103-BS2)

Prepared: 01/21/2019 Analyzed: 01/21/2019

Diesel (C10-C28) 1030 50.0 mg/kg 1000 103 64-121

Surrogate: o-Terphenyl 53 " 50.0 107 59-131

Matrix Spike (B9A2103-MS1)

Source: Y901233-05

Prepared: 01/21/2019 Analyzed: 01/21/2019

Diesel (C10-C28) 1060 50.0 mg/kg 1000 ND 106 53-125

Surrogate: o-Terphenyl 51 " 50.0 103 59-131

Matrix Spike (B9A2103-MS2)

Source: Y901255-01

Prepared: 01/21/2019 Analyzed: 01/22/2019

Diesel (C10-C28) 1540 50.0 mg/kg 1000 845 69.9 53-125

Surrogate: o-Terphenyl 52 " 50.0 105 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.

Olsson Associates
 1525 Raleigh St, Suite 400
 Denver CO 80204

Jason Davidson
 Project Number: 019-
 Project: Seltzer PP 4-8 Tank Pull

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 B9A2103 - EPA 3550B

Matrix Spike Dup (B9A2103-MSD1)		Source: Y901233-05			Prepared: 01/21/2019 Analyzed: 01/21/2019					
Diesel (C10-C28)	988	50.0	mg/kg	1000	ND	98.8	53-125	7.26	20	
Surrogate: o-Terphenyl	47		"	50.0		94.2	59-131			
Matrix Spike Dup (B9A2103-MSD2)		Source: Y901255-01			Prepared: 01/21/2019 Analyzed: 01/22/2019					
Diesel (C10-C28)	1460	50.0	mg/kg	1000	845	61.1	53-125	5.86	20	
Surrogate: o-Terphenyl	52		"	50.0		105	59-131			

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 1525 Raleigh St, Suite 400
 Denver CO 80204

Jason Davidson
 Project Number: 019-
 Project: Seltzer PP 4-8 Tank Pull

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 B9A2104 - NO PREP										
Duplicate (B9A2104-DUP1)		Source: Y901233-01			Prepared: 01/21/2019 Analyzed: 01/21/2019					
pH	7.72		pH Units		7.96			3.06	25	
Batch B9A2105 - NO PREP										
Blank (B9A2105-BLK1)		Prepared: 01/21/2019 Analyzed: 01/21/2019								
Specific Conductance (EC)	0.00230	0.00500	mmhos/cm							
Duplicate (B9A2105-DUP1)		Source: Y901233-01			Prepared: 01/21/2019 Analyzed: 01/21/2019					
Specific Conductance (EC)	0.228	0.00500	mmhos/cm		0.227			0.483	25	

Origins Laboratory, Inc.



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Olsson Associates
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Denver CO 80204

Jason Davidson
Project Number: 019-
Project: Seltzer PP 4-8 Tank Pull

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.

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager