



June 26, 2020

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Top Operating - Stamp 31-2C

Project Number - [none]

Attached are your analytical results for Top Operating - Stamp 31-2C received by Origins Laboratory, Inc. June 25, 2020. This project is associated with Origins project number Y006424-01.

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



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

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: Top Operating - Stamp 31-2C

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-67@10.5'	Y006424-01	Soil	June 25, 2020 15:12	06/25/2020 16:55

Origins Laboratory, Inc.



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Origins Laboratory

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

Origins Work Order: Y0006424 Sample Receipt Checklist Client: Eagle

Checklist Completed by: SGJ Client Project ID: Top-Stamp-31-2C

Date/Time completed: 6/25/20 Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Airbill #: N/A

Cooler Number/Temperature: 1 / \_\_\_\_\_ °C 1 / \_\_\_\_\_ °C 1 / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 5°C <sup>(1)</sup> ?				
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (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 Na2CO3/NaOH, ZnAc2/NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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 6/25/20

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Dan Coloccia  
 Project Number: [none]  
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**SS-67@10.5'**  
**6/25/2020 3:12:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y006424-01 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0F2510	KDK	06/25/2020	06/25/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	<b>84.9</b>	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.1 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0F2511	TEM	06/25/2020	06/25/2020	U
Surrogate: o-Terphenyl	68.0 %	50-150			"	"	"	"	

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0F2510 - EPA 5030 (soil)**

**Blank (B0F2510-BLK1)**

Prepared: 06/25/2020 Analyzed: 06/25/2020

Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.14</i>		<i>"</i>	<i>0.125</i>		<i>111</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>97.0</i>	<i>70-130</i>			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0F2510 - EPA 5030 (soil)

**LCS (B0F2510-BS1)**

Prepared: 06/25/2020 Analyzed: 06/25/2020

Benzene	0.111	0.00200	mg/kg	0.100		111	70-130			
Toluene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.111	0.00200	"	0.100		111	70-130			
m,p-Xylene	0.219	0.00400	"	0.200		109	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.8	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0F2510 - EPA 5030 (soil)

Matrix Spike (B0F2510-MS1)	Source: Y006423-03			Prepared: 06/25/2020 Analyzed: 06/25/2020						
Benzene	0.124	0.00200	mg/kg	0.100	0.0450	79.2	70-130			
Toluene	0.127	0.00200	"	0.100	0.776	NR	70-130			QM-07
Ethylbenzene	0.130	0.00200	"	0.100	0.240	NR	70-130			QM-07
m,p-Xylene	0.267	0.00400	"	0.200	2.06	NR	70-130			QM-07
o-Xylene	0.121	0.00200	"	0.100	0.586	NR	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.0	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0F2510 - EPA 5030 (soil)

Matrix Spike Dup (B0F2510-MSD1)	Source: Y006423-03			Prepared: 06/25/2020 Analyzed: 06/25/2020						
Benzene	0.127	0.00200	mg/kg	0.100	0.0450	82.1	70-130	2.31	20	
Toluene	0.125	0.00200	"	0.100	0.776	NR	70-130	1.65	20	QM-07
Ethylbenzene	0.134	0.00200	"	0.100	0.240	NR	70-130	2.88	20	QM-07
m,p-Xylene	0.263	0.00400	"	0.200	2.06	NR	70-130	1.41	20	QM-07
o-Xylene	0.122	0.00200	"	0.100	0.586	NR	70-130	0.509	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.7	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B0F2511 - EPA 3580</b>										
<b>Blank (B0F2511-BLK1)</b>										
					Prepared: 06/25/2020 Analyzed: 06/25/2020					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	31		"	50.0		62.5	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - 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 B0F2511 - EPA 3580**

**LCS (B0F2511-BS1)**

Prepared: 06/25/2020 Analyzed: 06/25/2020

Diesel (C10-C28)	933	50.0	mg/kg	1000		93.3	70-130			
Surrogate: o-Terphenyl	39		"	50.0		78.0	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - 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 B0F2511 - EPA 3580

Matrix Spike (B0F2511-MS1)		Source: Y006423-03			Prepared: 06/25/2020 Analyzed: 06/25/2020					
Diesel (C10-C28)	919	50.0	mg/kg	1000	ND	91.9	70-130			
Surrogate: o-Terphenyl	35		"	50.0		70.3	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - 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 B0F2511 - EPA 3580

Matrix Spike Dup (B0F2511-MSD1)	Source: Y006423-03			Prepared: 06/25/2020 Analyzed: 06/25/2020						
Diesel (C10-C28)	896	50.0	mg/kg	1000	ND	89.6	70-130	2.51	35	
Surrogate: o-Terphenyl	34		"	50.0		67.5	50-150			

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Jen Pellegrini For Noelle Doyle Mathis, President

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**Notes and Definitions**

U Sample is Non-Detect.

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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