



June 17, 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 15, 2020. This project is associated with Origins project number Y006254-01.

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
FS-09@12'	Y006254-01	Soil	June 12, 2020 10:34	06/15/2020 12:50
FS-10@12.5'	Y006254-02	Soil	June 12, 2020 9:36	06/15/2020 12:50

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

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

**ORIGINS**  
LABORATORY, INC

www.originslaboratory.com

1529001

page / of /

Client: EAGLE ENV. CONSULTING  
Address: 8000 W 44TH AVE.  
WHEAT RIDGE, CO  
Telephone Number: \_\_\_\_\_  
Email Address: D.COLOCCIA@EAGLE-ENVIRONMENT.COM

Project Manager: DANIEL COLLOCCIA  
Project Name: TOP-STAMP 31-2C  
Project Number: \_\_\_\_\_  
Samples Collected By: LC

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	B7E	L20		P20
F5-09C 12'	6-12-20	1034	2	X					X			X	X		1
F5-10C 12.5'	6-15-20	0936	2	X					X			X	X		2
															3
															4
															5
															6
															7
															8
															9
															10

  

Relinquished By: <u>[Signature]</u>	Date: <u>6-15-20</u>	Time: <u>1250</u>	Received By: <u>[Signature]</u>	Date: <u>6/15/20</u>	Time: <u>1250</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____	

Temp Received- 9.6 Date Results Needed

Origins Laboratory, Inc.

[Signature]

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Project: Top Operating - Stamp 31-2C

Origins Laboratory

## Sample Receipt Checklist

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

Origins Work Order: Y006254

Client: Eagle

Client Project ID: Top-Stamp 31-2C

Checklist Completed by: SG

Shipped Via: HD

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

Date/time completed: 6/15/20

Airbill #: N/A

Matrix(s) Received: (Check all that apply): X Soil/Solid

SG Water

Other:

Cooler Number/Temperature: 1, 9.6 °C

1 °C

1 °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 <sup>(1)</sup> ?				
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			Same as
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 HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+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) SG

6-16-20  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jordan A. Merrill*

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8000 W 44th Ave  
Wheat Ridge CO 80033

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

FS-09@12'

6/12/2020 10:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y006254-01 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0F1218	KDK	06/12/2020	06/15/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	96.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0F1508	KDK	06/15/2020	06/15/2020	U
Surrogate: o-Terphenyl	64.9 %	50-150			"		"	"	

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

FS-10@12.5'  
6/12/2020 9:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y006254-02 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0F1218	KDK	06/12/2020	06/15/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	97.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0F1508	KDK	06/15/2020	06/15/2020	U
Surrogate: o-Terphenyl	68.5 %	50-150			"		"	"	

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Project Number: [none]  
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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 B0F1218 - EPA 5030 (soil)</b>										
<b>Blank (B0F1218-BLK1)</b>					Prepared: 06/12/2020 Analyzed: 06/15/2020					
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
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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 B0F1218 - EPA 5030 (soil)</b>										
<b>LCS (B0F1218-BS1)</b>					Prepared: 06/12/2020 Analyzed: 06/15/2020					
Benzene	0.0496	0.00200	mg/kg	0.0500		99.2	70-130			
Toluene	0.0474	0.00200	"	0.0500		94.8	70-130			
Ethylbenzene	0.0496	0.00200	"	0.0500		99.2	70-130			
m,p-Xylene	0.101	0.00400	"	0.100		101	70-130			
o-Xylene	0.0495	0.00200	"	0.0500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	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 B0F1218 - EPA 5030 (soil)**

Matrix Spike (B0F1218-MS1)		Source: Y006234-01			Prepared: 06/12/2020 Analyzed: 06/15/2020					
Benzene	0.0471	0.00200	mg/kg	0.0500	ND	94.3	70-130			
Toluene	0.0454	0.00200	"	0.0500	ND	90.7	70-130			
Ethylbenzene	0.0485	0.00200	"	0.0500	ND	97.0	70-130			
m,p-Xylene	0.0993	0.00400	"	0.100	ND	99.3	70-130			
o-Xylene	0.0482	0.00200	"	0.0500	ND	96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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 B0F1218 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B0F1218-MSD1)</b>		<b>Source: Y006234-01</b>			Prepared: 06/12/2020 Analyzed: 06/15/2020					
Benzene	0.0501	0.00200	mg/kg	0.0500	ND	100	70-130	6.01	20	
Toluene	0.0476	0.00200	"	0.0500	ND	95.2	70-130	4.78	20	
Ethylbenzene	0.0499	0.00200	"	0.0500	ND	99.8	70-130	2.81	20	
m,p-Xylene	0.101	0.00400	"	0.100	ND	101	70-130	1.60	20	
o-Xylene	0.0497	0.00200	"	0.0500	ND	99.5	70-130	3.06	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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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 B0F1508 - EPA 3580

Blank (B0F1508-BLK1)

Prepared: 06/15/2020 Analyzed: 06/15/2020

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	34		"	50.0		68.3	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 B0F1508 - EPA 3580

#### LCS (B0F1508-BS1)

Prepared: 06/15/2020 Analyzed: 06/15/2020

Diesel (C10-C28)	873	50.0	mg/kg	1000		87.3	70-130			
Surrogate: o-Terphenyl	39		"	50.0		78.1	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 B0F1508 - EPA 3580

Matrix Spike (B0F1508-MS1)		Source: Y006254-01			Prepared: 06/15/2020 Analyzed: 06/15/2020					
Diesel (C10-C28)	824	50.0	mg/kg	1000	ND	82.4	70-130			
Surrogate: o-Terphenyl	34		"	50.0		67.1	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 B0F1508 - EPA 3580

Matrix Spike Dup (B0F1508-MSD1)		Source: Y006254-01			Prepared: 06/15/2020 Analyzed: 06/15/2020					
Diesel (C10-C28)	878	50.0	mg/kg	1000	ND	87.8	70-130	6.40	35	
Surrogate: o-Terphenyl	37		"	50.0		73.1	50-150			

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### 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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