



May 20, 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. May 15, 2020. This project is associated with Origins project number Y005235-01.

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

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Dan Coloccia

Project Number: [none]

Project: Top Operating - Stamp 31-2C

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-01	Y005235-01	Water	May 15, 2020 10:15	05/15/2020 15:38

Origins Laboratory, Inc.



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Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: Y005235

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: 5/18/20

Airbill #: N/A

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

Cooler Number/Temperature: 1 3.4 °C 1 °C 1 °C (Describe) 1 °C

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> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water - is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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: Jim (Project Manager)

5/19/20  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jordan A. Merrill*

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## GW-01

5/15/2020 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y005235-01 (Water)

### BTEX by EPA 8260D

Benzene	4050	50.0	ug/L	50	B0E1804	KDK	05/18/2020	05/20/2020
Toluene	2680	50.0	"	"	"	KDK	"	"
Ethylbenzene	186	50.0	"	"	"	KDK	"	"
Xylenes, total	892	50.0	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130			"	"	"
Surrogate: Toluene-d8	98.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	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 B0E1804 - EPA 5030B (Water)**

**Blank (B0E1804-BLK1)**

Prepared: 05/18/2020 Analyzed: 05/20/2020

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5	98.1	70-130				
Surrogate: Toluene-d8	63		"	62.5	101	70-130				
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102	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 B0E1804 - EPA 5030B (Water)

**LCS (B0E1804-BS1)**

Prepared: 05/18/2020 Analyzed: 05/20/2020

Benzene	54.5	1.00	ug/L	50.0		109	70-130			
Toluene	53.3	1.00	"	50.0		107	70-130			
Ethylbenzene	55.6	1.00	"	50.0		111	70-130			
m,p-Xylene	104	2.00	"	100		104	70-130			
o-Xylene	48.4	1.00	"	50.0		96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		93.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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 B0E1804 - EPA 5030B (Water)**

Matrix Spike (B0E1804-MS1)		Source: Y005233-05			Prepared: 05/18/2020 Analyzed: 05/20/2020					
Benzene	54.9	1.00	ug/L	50.0	ND	110	70-130			
Toluene	53.8	1.00	"	50.0	ND	108	70-130			
Ethylbenzene	55.0	1.00	"	50.0	ND	110	70-130			
m,p-Xylene	104	2.00	"	100	ND	104	70-130			
o-Xylene	49.4	1.00	"	50.0	ND	98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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 B0E1804 - EPA 5030B (Water)**

Matrix Spike Dup (B0E1804-MSD1)		Source: Y005233-05			Prepared: 05/18/2020 Analyzed: 05/20/2020					
Benzene	56.8	1.00	ug/L	50.0	ND	114	70-130	3.42	20	
Toluene	55.7	1.00	"	50.0	ND	111	70-130	3.45	20	
Ethylbenzene	56.9	1.00	"	50.0	ND	114	70-130	3.41	20	
m,p-Xylene	107	2.00	"	100	ND	107	70-130	3.19	20	
o-Xylene	50.9	1.00	"	50.0	ND	102	70-130	2.91	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.8	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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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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