



May 27, 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 19, 2020. This project is associated with Origins project number Y005262-01.

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-04@3'	Y005262-01	Soil	May 19, 2020 9:06	05/19/2020 14:36

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: Top Operating - Stamp 31-2C

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y005262

Client: Eagle

Client Project ID: TOP-Stamp 31-2C

Checklist Completed by: SGKDK

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 05/19/20

Airbill #: N/A

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

Cooler Number/Temperature: 1 12.4 °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⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			/	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)			/	
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) DM

5-20-20
Date/Time Reviewed

Origins Laboratory, Inc.

Jordan A. Merrill

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

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

SS-04@3'

5/19/2020 9:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y005262-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0E1901	KDK	05/19/2020	05/19/2020	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	99.4 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0E1902	KDK	05/19/2020	05/19/2020	U
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Surrogate: o-Terphenyl	92.7 %	50-150	"	"	"
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Metals (Saturated Paste Prep)

Calcium	2.97	me/L	1	[none]	05/20/2020	05/22/2020
Magnesium	1.97	"	"	"	"	"
Sodium	2.35	"	"	"	"	"

pH in Soil by EPA 9045D

pH	7.78	pH Units	1	B0E1903	DJL	05/19/2020	05/19/2020
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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: Top Operating - Stamp 31-2C

SS-04@3'

5/19/2020 9:06:00AM

Analyte	Result	Reporting	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Y005262-01 (Soil)

SAR by 20B Saturated Paste

SAR	1.50		1	[none]		05/20/2020	05/22/2020
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0667	0.00500	mmhos/cm	1	B0E1904	DJL	05/19/2020	05/19/2020
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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: Top Operating - Stamp 31-2C

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 B0E1901 - EPA 5030 (soil)

Blank (B0E1901-BLK1)

Prepared: 05/19/2020 Analyzed: 05/19/2020

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		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	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
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Batch B0E1901 - EPA 5030 (soil)

LCS (B0E1901-BS1)

Prepared: 05/19/2020 Analyzed: 05/19/2020

Benzene	0.110	0.00200	mg/kg	0.100		110	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.204	0.00400	"	0.200		102	70-130			
o-Xylene	0.0969	0.00200	"	0.100		96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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 B0E1901 - EPA 5030 (soil)

Matrix Spike (B0E1901-MS1)		Source: Y005249-01			Prepared: 05/19/2020 Analyzed: 05/19/2020					
Benzene	0.113	0.00200	mg/kg	0.100	ND	113	70-130			
Toluene	0.110	0.00200	"	0.100	ND	110	70-130			
Ethylbenzene	0.117	0.00200	"	0.100	ND	117	70-130			
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Project: Top Operating - Stamp 31-2C

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 B0E1901 - EPA 5030 (soil)

Matrix Spike Dup (B0E1901-MSD1)		Source: Y005249-01			Prepared: 05/19/2020 Analyzed: 05/19/2020					
Benzene	0.107	0.00200	mg/kg	0.100	ND	107	70-130	6.01	20	
Toluene	0.104	0.00200	"	0.100	ND	104	70-130	5.33	20	
Ethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130	6.26	20	
m,p-Xylene	0.205	0.00400	"	0.200	ND	102	70-130	5.99	20	
o-Xylene	0.0964	0.00200	"	0.100	ND	96.4	70-130	4.40	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	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 B0E1902 - EPA 3580

Blank (B0E1902-BLK1)

Prepared: 05/19/2020 Analyzed: 05/19/2020

Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	23		"	25.0		93.5	50-150			

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Project Number: [none]

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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 B0E1902 - EPA 3580

LCS (B0E1902-BS1)

Prepared: 05/19/2020 Analyzed: 05/19/2020

Diesel (C10-C28)	1180	50.0	mg/kg	1000		118	70-130			
Surrogate: o-Terphenyl	64		"	50.0		129	50-150			

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Project: Top Operating - Stamp 31-2C

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 B0E1902 - EPA 3580

Matrix Spike (B0E1902-MS1)		Source: Y005249-01			Prepared: 05/19/2020 Analyzed: 05/19/2020					
Diesel (C10-C28)	1160	50.0	mg/kg	1000	ND	116	70-130			
Surrogate: o-Terphenyl	56		"	50.0		112	50-150			

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Project Number: [none]

Project: Top Operating - Stamp 31-2C

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 B0E1902 - EPA 3580

Matrix Spike Dup (B0E1902-MSD1)		Source: Y005249-01			Prepared: 05/19/2020 Analyzed: 05/19/2020					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	70-130	7.05	35	
Surrogate: o-Terphenyl	54		"	50.0		108	50-150			

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8000 W 44th Ave
Wheat Ridge CO 80033

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

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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Classical Chemistry Parameters - 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 B0E1903 - NO PREP

Duplicate (B0E1903-DUP1)		Source: Y005249-01			Prepared: 05/19/2020 Analyzed: 05/19/2020					
pH	7.76		pH Units		7.95			2.42	25	

Batch B0E1904 - NO PREP

Blank (B0E1904-BLK1)		Prepared: 05/19/2020 Analyzed: 05/19/2020								
Specific Conductance (EC)	0.00460	0.00500	mmhos/cm							
Duplicate (B0E1904-DUP1)		Source: Y005249-01			Prepared: 05/19/2020 Analyzed: 05/19/2020					
Specific Conductance (EC)	0.122	0.00500	mmhos/cm		0.109			12.0	25	

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8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: Top Operating - Stamp 31-2C

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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www.AmAgLab.com

DATE REPORTED: 05/22/2020

[illegible][illegible]

2707273	Y005262	01
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Recommendations By: American Agricultural Lab



Your Lab's letterhead here...

Address

City, St. Zip

Phone/Fax

SUBCONTRACT ORDER

Sending Laboratory:

Origins Laboratory, Inc.
1725 West Elk Place
Denver, CO 80211
Phone: 303.433.1322
Fax: 303.265.9645

Project Manager: Noelle Doyle Mathis

Subcontracted Laboratory:

American Agricultural Laboratory, Inc
210 East 1st Street
McCook, NE 69001
Phone: (308) 345-3670
Fax: (308) 345-7880

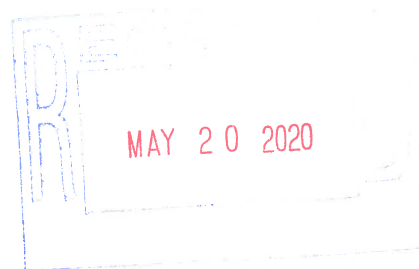
Work Order: Y005262

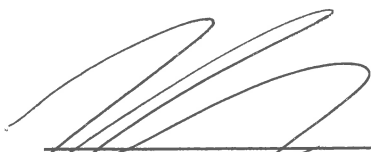
Analysis	Due	Expires	Comments
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Sample ID: Y005262-01 *Soil* **Sampled: 05/19/2020 09:06**

SAR (Saturated Paste Prep) 05/20/2020 05/20/2020 09:06

Containers Supplied:





Released By

05-19-20

Date



Received By

5/20/20

Date