



February 10, 2023

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Moonracker 6-27**

**Project Number - [none]**

Attached are your analytical results for Moonracker 6-27 received by Origins Laboratory, Inc. February 03, 2023. This project is associated with Origins project number Y302060-01.

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: Moonracker 6-27

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Ast-B01@3"	Y302060-01	Soil	February 3, 2023 10:00	02/03/2023 14:06
Ast-B02@3"	Y302060-02	Soil	February 3, 2023 10:01	02/03/2023 14:06
PW-B01@3"	Y302060-03	Soil	February 3, 2023 10:02	02/03/2023 14:06
SEP-B01@3"	Y302060-04	Soil	February 3, 2023 10:03	02/03/2023 14:06
COM-B01@3"	Y302060-05	Soil	February 3, 2023 10:04	02/03/2023 14:06
COM-B02@3"	Y302060-06	Soil	February 3, 2023 10:05	02/03/2023 14:06
FL-B02@4'	Y302060-07	Soil	February 3, 2023 10:06	02/03/2023 14:06
FL-B03@4'	Y302060-08	Soil	February 3, 2023 10:07	02/03/2023 14:06
FL-B04@4'	Y302060-09	Soil	February 3, 2023 10:08	02/03/2023 14:06

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: Moonraker 6-27

www.originslaboratory.com  
page 1 of 1

**ORIGINS**  
LABORATORY, INC

Client: Eagle Environmental (Mudwin Drilling)  
Address: 8000 W 44th Ave  
Telephone Number: 303-433-0479  
Email Address: dcoloccia@eagle-enviro.com

Project Manager: D. Coloccia  
Project Name: Moonraker 6-27  
Project Number: -  
Samples Collected By: AM

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	BTEXN	TMBS	TPH		EC/PH	SAP
AST-B01C3"	2/3/23	1000	2	X						X				X	X	X	1
AST-B02C3"		1001															2
PW-B01C3"		1002															3
SEP-B01C3"		1003															4
COM-B01C3"		1004															5
COM-B02C3"		1005															6
FL-B02C4'		1006															7
FL-B03C4'		1007															8
FL-B04C4'		1008															9
PW-B01C3"		1009															10
PW-B02C3"		1010															

Relinquished By: *AM* Date: 2/3/23 Time: 1406  
Relinquished By: Date: Time: 1406

Received By: DE Date: 02/03/23 Time: 1406  
Received By: Date: Time: 1406

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☒ Standard

Date Results Needed

Temp Received- 8.0

Origins Laboratory, Inc.

*J. Bynon*

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

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y202066

Client: Eagle  
Client Project ID: Moore UPRC

Checklist Completed by: DE

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

Date/time completed: 02/03/2023

Airbill #: NA

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

Cooler Number/Temperature: 1 / 8.0 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T004

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"/>		
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 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) [Signature]

2/6/23  
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

Ast-B01@3"  
2/3/2023 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302060-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.100	mg/L	1	B3B0602	KAP	02/06/2023	02/07/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B0601	ZZZ	02/06/2023	02/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	105 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B0332	JSM	02/03/2023	02/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"
Surrogate: Toluene-d8	98.4 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	92.5 %	70-130			"	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

Ast-B01@3"  
2/3/2023 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302060-01 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.48	0.499	meq/L	10	[CALC]	KAP	02/06/2023	02/07/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	0.576	0.435	"	"	"	KAP	"	"

## pH in Soil by 9045D

pH	8.14		pH Units	1	B3B0606	HJD	02/06/2023	02/07/2023
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## SAR by 20B Saturated Paste

SAR	0.573		SAR	1	B3B0603	KAP	02/06/2023	02/07/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.331	0.00500	mmhos/cm	1	B3B0606	HJD	02/06/2023	02/07/2023
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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: Moonracker 6-27

**Ast-B02@3"**  
**2/3/2023 10:01:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302060-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.137	0.101	mg/L	1	B3B0602	KAP	02/06/2023	02/07/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B0601	ZZZ	02/06/2023	02/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	92.3 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B0332	JSM	02/03/2023	02/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"
Surrogate: Toluene-d8	96.3 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	91.5 %	70-130			"	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

**Ast-B02@3"**  
**2/3/2023 10:01:00AM**

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302060-02 (Soil)**

## Metals by Saturated Paste by EPA 6010

Calcium	2.34	0.499	meq/L	10	[CALC]	KAP	02/06/2023	02/07/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	0.912	0.435	"	"	"	KAP	"	"

## pH in Soil by 9045D

pH	8.22		pH Units	1	B3B0606	HJD	02/06/2023	02/07/2023
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## SAR by 20B Saturated Paste

SAR	0.751		SAR	1	B3B0603	KAP	02/06/2023	02/07/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.447	0.00500	mmhos/cm	1	B3B0606	HJD	02/06/2023	02/07/2023
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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

PW-B01@3"  
2/3/2023 10:02:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302060-03 (Soil)

**Boron (DTPA Sorbitol)**

Boron	ND	0.0989	mg/L	1	B3B0602	KAP	02/06/2023	02/07/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B0601	ZZZ	02/06/2023	02/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	98.1 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B0332	JSM	02/03/2023	02/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	90.4 %	70-130			"	"	"	

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: Moonracker 6-27

PW-B01@3"  
2/3/2023 10:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302060-03 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.572	0.499	meq/L	10	[CALC]	KAP	02/06/2023	02/07/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	3.40	0.435	"	"	"	KAP	"	"

## pH in Soil by 9045D

pH	8.33		pH Units	1	B3B0606	HJD	02/06/2023	02/07/2023
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## SAR by 20B Saturated Paste

SAR	5.40		SAR	1	B3B0603	KAP	02/06/2023	02/07/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.485	0.00500	mmhos/cm	1	B3B0606	HJD	02/06/2023	02/07/2023
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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

SEP-B01@3"  
2/3/2023 10:03:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302060-04 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.123	0.100	mg/L	1	B3B0602	KAP	02/06/2023	02/07/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B0601	ZZZ	02/06/2023	02/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	96.4 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B0332	JSM	02/03/2023	02/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	0.592	0.200	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"
Surrogate: Toluene-d8	98.4 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	88.1 %	70-130			"	"	"

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: Moonracker 6-27

SEP-B01@3"  
2/3/2023 10:03:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302060-04 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.37	0.499	meq/L	10	[CALC]	KAP	02/06/2023	02/07/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	0.568	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.03		pH Units	1	B3B0607	HJD	02/06/2023	02/07/2023
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**SAR by 20B Saturated Paste**

SAR	0.00		SAR	1	B3B0604	KAP	02/06/2023	02/07/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.300	0.00500	mmhos/cm	1	B3B0607	HJD	02/06/2023	02/07/2023
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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

COM-B01@3"  
2/3/2023 10:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302060-05 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.346	0.102	mg/L	1	B3B0602	KAP	02/06/2023	02/07/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B0601	ZZZ	02/06/2023	02/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	88.1 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B0332	JSM	02/03/2023	02/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"
Surrogate: Toluene-d8	98.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	89.2 %	70-130			"	"	"

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.

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

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

COM-B01@3"  
2/3/2023 10:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302060-05 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	2.68	0.499	meq/L	10	[CALC]	KAP	02/06/2023	02/07/2023
Magnesium	1.08	0.823	"	"	"	KAP	"	"
Sodium	0.798	0.435	"	"	"	KAP	"	"

## pH in Soil by 9045D

pH	8.12		pH Units	1	B3B0607	HJD	02/06/2023	02/07/2023
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## SAR by 20B Saturated Paste

SAR	0.583		SAR	1	B3B0604	KAP	02/06/2023	02/07/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.556	0.00500	mmhos/cm	1	B3B0607	HJD	02/06/2023	02/07/2023
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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.



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

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

COM-B02@3"  
2/3/2023 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302060-06 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.255	0.0997	mg/L	1	B3B0602	KAP	02/06/2023	02/07/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B0601	ZZZ	02/06/2023	02/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	94.9 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B0332	JSM	02/03/2023	02/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"
Surrogate: Toluene-d8	98.4 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	91.3 %	70-130			"	"	"

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: Moonracker 6-27

COM-B02@3"  
2/3/2023 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302060-06 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.73	0.499	meq/L	10	[CALC]	KAP	02/06/2023	02/07/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	0.498	0.435	"	"	"	KAP	"	"

## pH in Soil by 9045D

pH	7.93		pH Units	1	B3B0607	HJD	02/06/2023	02/07/2023
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## SAR by 20B Saturated Paste

SAR	0.450		SAR	1	B3B0604	KAP	02/06/2023	02/07/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.369	0.00500	mmhos/cm	1	B3B0607	HJD	02/06/2023	02/07/2023
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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.

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

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

FL-B02@4'

2/3/2023 10:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302060-07 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.466	0.101	mg/L	1	B3B0602	KAP	02/06/2023	02/07/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B0601	ZZZ	02/06/2023	02/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	90.9 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B0332	JSM	02/03/2023	02/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"
Surrogate: Toluene-d8	98.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	86.6 %	70-130			"	"	"

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: Moonracker 6-27

FL-B02@4'

2/3/2023 10:06:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302060-07 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	2.44	0.499	meq/L	10	[CALC]	KAP	02/06/2023	02/07/2023
Magnesium	1.61	0.823	"	"	"	KAP	"	"
Sodium	4.13	0.435	"	"	"	KAP	"	"

## pH in Soil by 9045D

pH	8.18		pH Units	1	B3B0607	HJD	02/06/2023	02/07/2023
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## SAR by 20B Saturated Paste

SAR	2.90		SAR	1	B3B0604	KAP	02/06/2023	02/07/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.02	0.00500	mmhos/cm	1	B3B0607	HJD	02/06/2023	02/07/2023
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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: Moonracker 6-27

FL-B03@4'  
2/3/2023 10:07:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302060-08 (Soil)

**Boron (DTPA Sorbitol)**

Boron	ND	1.02	mg/L	10	B3B0602	KAP	02/06/2023	02/07/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B0601	ZZZ	02/06/2023	02/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	89.3 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B0332	JSM	02/03/2023	02/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	89.8 %	70-130			"	"	"

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: Moonracker 6-27

FL-B03@4'

2/3/2023 10:07:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302060-08 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.59	0.499	meq/L	10	[CALC]	KAP	02/06/2023	02/07/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

## pH in Soil by 9045D

pH	7.76		pH Units	1	B3B0607	HJD	02/06/2023	02/07/2023
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## SAR by 20B Saturated Paste

SAR	0.101		SAR	1	B3B0604	KAP	02/06/2023	02/07/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.338	0.00500	mmhos/cm	1	B3B0607	HJD	02/06/2023	02/07/2023
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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: Moonracker 6-27

FL-B04@4'

2/3/2023 10:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302060-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.470	0.101	mg/L	1	B3B0602	KAP	02/06/2023	02/07/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B0601	ZZZ	02/06/2023	02/06/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	89.4 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B0332	JSM	02/03/2023	02/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"
Surrogate: Toluene-d8	97.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	89.7 %	70-130			"	"	"

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: Moonracker 6-27

FL-B04@4'

2/3/2023 10:08:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302060-09 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	2.13	0.499	meq/L	10	[CALC]	KAP	02/06/2023	02/07/2023
Magnesium	1.00	0.823	"	"	"	KAP	"	"
Sodium	0.880	0.435	"	"	"	KAP	"	"

## pH in Soil by 9045D

pH	8.09		pH Units	1	B3B0607	HJD	02/06/2023	02/07/2023
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## SAR by 20B Saturated Paste

SAR	0.704		SAR	1	B3B0604	KAP	02/06/2023	02/07/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.486	0.00500	mmhos/cm	1	B3B0607	HJD	02/06/2023	02/07/2023
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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: Moonracker 6-27

**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 B3B0332 - EPA 5030 (soil)</b>										
<b>Blank (B3B0332-BLK1)</b>					Prepared: 02/03/2023 Analyzed: 02/06/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.7	70-130			

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: Moonracker 6-27

## 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
Batch B3B0332 - EPA 5030 (soil)										
LCS (B3B0332-BS1)					Prepared: 02/03/2023 Analyzed: 02/06/2023					
1,2,4-Trimethylbenzene	0.0996	0.00200	mg/kg	0.100		99.6	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.0982	0.00200	"	0.100		98.2	70-130			
Ethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.0998	0.00200	"	0.100		99.8	70-130			
m,p-Xylene	0.218	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	70-130			

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: Moonracker 6-27

## 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 B3B0332 - EPA 5030 (soil)

Matrix Spike (B3B0332-MS1)		Source: Y302060-01			Prepared: 02/03/2023 Analyzed: 02/06/2023					
1,2,4-Trimethylbenzene	0.0957	0.00200	mg/kg	0.100	ND	95.7	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Benzene	0.0990	0.00200	"	0.100	ND	99.0	70-130			
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Naphthalene	0.0924	0.00380	"	0.100	ND	92.4	70-130			
Toluene	0.104	0.00200	"	0.100	ND	104	70-130			
o-Xylene	0.0994	0.00200	"	0.100	ND	99.4	70-130			
m,p-Xylene	0.219	0.00400	"	0.200	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.1	70-130			

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: Moonracker 6-27

## 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
Batch B3B0332 - EPA 5030 (soil)										
Matrix Spike Dup (B3B0332-MSD1)		Source: Y302060-01			Prepared: 02/03/2023 Analyzed: 02/06/2023					
1,2,4-Trimethylbenzene	0.0999	0.00200	mg/kg	0.100	ND	99.9	70-130	4.33	20	
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	4.29	20	
Benzene	0.0977	0.00200	"	0.100	ND	97.7	70-130	1.30	20	
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130	1.86	20	
Naphthalene	0.102	0.00380	"	0.100	ND	102	70-130	9.72	20	
Toluene	0.105	0.00200	"	0.100	ND	105	70-130	0.802	20	
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130	2.15	20	
m,p-Xylene	0.221	0.00400	"	0.200	ND	111	70-130	1.16	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.1	70-130			

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.



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

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

## 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
Batch B3B0601 - EPA 3580										
Blank (B3B0601-BLK1)					Prepared: 02/06/2023 Analyzed: 02/07/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	27		"	24.9		108	50-150			

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.

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: Moonracker 6-27

## 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 B3B0601 - EPA 3580

#### LCS (B3B0601-BS1)

Prepared: 02/06/2023 Analyzed: 02/06/2023

Diesel (C10-C28)	970	50.0	mg/kg	1000		97.0	70-130			
Residual Range Organics (C28-C40)	1100	200	"	1000		110	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.4	50-150			

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: Moonracker 6-27

**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 B3B0601 - EPA 3580**

Matrix Spike (B3B0601-MS1)		Source: Y302060-01			Prepared: 02/06/2023 Analyzed: 02/06/2023					
Diesel (C10-C28)	947	50.0	mg/kg	1000	ND	94.7	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130			
Surrogate: o-Terphenyl	46		"	49.8		91.8	50-150			

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.*

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

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

## 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 B3B0601 - EPA 3580

Matrix Spike Dup (B3B0601-MSD1)		Source: Y302060-01			Prepared: 02/06/2023 Analyzed: 02/06/2023					
Diesel (C10-C28)	934	50.0	mg/kg	1000	ND	93.4	70-130	1.42	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130	3.29	35	
Surrogate: o-Terphenyl	45		"	49.8		91.1	50-150			

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: Moonracker 6-27

## 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 B3B0602 - DTPA Sorbitol Preparation

##### Blank (B3B0602-BLK1)

Prepared: 02/06/2023 Analyzed: 02/07/2023

Boron ND 0.100 mg/L

##### Duplicate (B3B0602-DUP1)

Source: Y302060-01

Prepared: 02/06/2023 Analyzed: 02/07/2023

Boron 0.0305 0.0997 mg/L 0.0322 5.49 50

#### Batch B3B0603 - Saturated Paste Metals

##### Blank (B3B0603-BLK1)

Prepared: 02/06/2023 Analyzed: 02/07/2023

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

##### Duplicate (B3B0603-DUP1)

Source: Y302060-01

Prepared: 02/06/2023 Analyzed: 02/07/2023

Calcium PPM 24.3 10.0 mg/L 29.6 19.7 50

SAR 0.00 SAR 0.573 200 200

Magnesium PPM 5.78 10.0 mg/L 6.59 13.1 50

Sodium PPM 13.0 10.0 " 13.3 2.05 50

#### Batch B3B0604 - Saturated Paste Metals

##### Blank (B3B0604-BLK1)

Prepared: 02/06/2023 Analyzed: 02/07/2023

SAR 0.00 SAR

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: Moonracker 6-27

## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3B0604 - Saturated Paste Metals</b>										
<b>Blank (B3B0604-BLK1)</b>					Prepared: 02/06/2023 Analyzed: 02/07/2023					
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
<b>Duplicate (B3B0604-DUP1)</b>					<b>Source: Y302060-04</b>		Prepared: 02/06/2023 Analyzed: 02/07/2023			
SAR	0.00		SAR		0.00				200	
Calcium PPM	29.8	10.0	mg/L		27.4			8.09	50	
Magnesium PPM	4.66	10.0	"		4.07			13.6	50	
Sodium PPM	14.4	10.0	"		13.1			9.66	50	

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: Moonracker 6-27

## Saturated Paste - 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 B3B0606 - Saturated Paste pH/EC

#### Blank (B3B0606-BLK1)

Prepared: 02/06/2023 Analyzed: 02/07/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

#### Duplicate (B3B0606-DUP1)

Source: Y302060-01

Prepared: 02/06/2023 Analyzed: 02/07/2023

pH	8.11		pH Units	8.14		0.369	25
Specific Conductance (EC)	0.290	0.00500	mmhos/cm	0.331		13.2	25

### Batch B3B0607 - Saturated Paste pH/EC

#### Blank (B3B0607-BLK1)

Prepared: 02/06/2023 Analyzed: 02/07/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

#### Duplicate (B3B0607-DUP1)

Source: Y302060-04

Prepared: 02/06/2023 Analyzed: 02/07/2023

Specific Conductance (EC)	0.319	0.00500	mmhos/cm	0.300		5.91	25
pH	8.07		pH Units	8.03		0.497	25

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: Moonracker 6-27

### 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.



*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.*





March 22, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Moonracker 6-27**

**Project Number - [none]**

Attached are your analytical results for Moonracker 6-27 received by Origins Laboratory, Inc. March 10, 2023. This project is associated with Origins project number Y303279-01.

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, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: Moonracker 6-27

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	Y303279-01	Soil	March 9, 2023 14:58	03/10/2023 13:40
FL-B01@4'	Y303279-02	Soil	March 9, 2023 15:07	03/10/2023 13:40

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: Moonraker 6-27

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page 1 of 1  
4303279

Client: Eagle Environmental (Murtin Drilling)  
Project Manager: D. Coloccia  
Address: 8000 W 44th Ave  
Project Name: Moonraker 6-27  
Wheat Ridge, CO 80033  
Project Number:           
Telephone Number: 303-433-0479  
Samples Collected By: AM  
Email Address: dcoloccia@eagle-enviro.com

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 Summ #	Other	BTEX <sub>2</sub>	TPH	EC/PH	SAP	Boron		
WT-Bp106'	3/9/23	1458	2	X					X				X	X	X	X	Hold	1
FL-Bp104'	1	1507	1											X	X	X		2
WT-Bp104'	1	1508	1														X	3
																		4
																		5
																		6
																		7
																		8
																		9
																		10

  

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>Hawman</u>	3/10/23	1240	<u>JS</u>	3/10/23	1340	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>

Date Results Needed

Temp Received- U

Origins Laboratory, Inc.

*J. Bynon*

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.

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

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4303279

Client: Eagle

Client Project ID: Moonracker 6-27

Checklist Completed by: EHS/DE

Shipped Via: HO

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

Date/time completed: 3/10/23

Airbill #: NA

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

Cooler Number/Temperature: 1 / 6.0 °C      /      °C      /      °C (Describe)

Thermometer ID: TOO4

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 type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<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)

Date/Time Reviewed 3/13/23

Origins Laboratory, Inc.

*J. Bynon*

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.

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

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

WH-B01@6'

3/9/2023 2:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303279-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.445	0.100	mg/L	1	B3C1404	CJM	03/14/2023	03/15/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	35.1	25.0	mg/kg	1	B3C1301	ZZZ	03/13/2023	03/15/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	84.3 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C1041	ZZZ	03/11/2023	03/14/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130			"	"	"
Surrogate: Toluene-d8	103 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

WH-B01@6'

3/9/2023 2:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y303279-01 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	9.51	0.499	meq/L	10	[CALC]	CJM	03/15/2023	03/17/2023
Magnesium	3.83	0.823	"	"	"	CJM	"	"
Sodium	12.0	0.435	"	"	"	CJM	"	"

## pH in Soil by 9045D

pH	8.05		pH Units	1	B3C1516	HJD	03/15/2023	03/16/2023
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## SAR by 20B Saturated Paste

SAR	4.64		SAR	1	B3C1506	CJM	03/15/2023	03/17/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.32	0.00500	mmhos/cm	1	B3C1516	HJD	03/15/2023	03/16/2023
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Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

FL-B01@4'

3/9/2023 3:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303279-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.192	0.100	mg/L	1	B3C1404	CJM	03/14/2023	03/15/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C1301	ZZZ	03/13/2023	03/15/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	88.0 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C1041	ZZZ	03/11/2023	03/14/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

FL-B01@4'

3/9/2023 3:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303279-02 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	5.17	0.499	meq/L	10	[CALC]	CJM	03/15/2023	03/17/2023
Magnesium	1.98	0.823	"	"	"	CJM	"	"
Sodium	4.79	0.435	"	"	"	CJM	"	"

**pH in Soil by 9045D**

pH	8.06		pH Units	1	B3C1516	HJD	03/15/2023	03/16/2023
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**SAR by 20B Saturated Paste**

SAR	2.53		SAR	1	B3C1506	CJM	03/15/2023	03/17/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.22	0.00500	mmhos/cm	1	B3C1516	HJD	03/15/2023	03/16/2023
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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.*



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

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

**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 B3C1041 - EPA 5030 (soil)</b>										
<b>Blank (B3C1041-BLK1)</b>					Prepared: 03/11/2023 Analyzed: 03/14/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

**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 B3C1041 - EPA 5030 (soil)</b>										
<b>LCS (B3C1041-BS1)</b>					Prepared: 03/11/2023 Analyzed: 03/14/2023					
1,2,4-Trimethylbenzene	0.0981	0.00200	mg/kg	0.100		98.1	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.0999	0.00200	"	0.100		99.9	70-130			
Naphthalene	0.0915	0.00380	"	0.100		91.5	70-130			
Toluene	0.0942	0.00200	"	0.100		94.2	70-130			
o-Xylene	0.0863	0.00200	"	0.100		86.3	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.0	70-130			

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

**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 B3C1041 - EPA 5030 (soil)**

Matrix Spike (B3C1041-MS1)		Source: Y303257-01			Prepared: 03/11/2023 Analyzed: 03/14/2023					
1,2,4-Trimethylbenzene	0.0835	0.00200	mg/kg	0.100	ND	83.5	70-130			
1,3,5-Trimethylbenzene	0.0874	0.00200	"	0.100	ND	87.4	70-130			
Benzene	0.0856	0.00200	"	0.100	ND	85.6	70-130			
Ethylbenzene	0.0941	0.00200	"	0.100	ND	94.1	70-130			
Naphthalene	0.0717	0.00380	"	0.100	ND	71.7	70-130			
Toluene	0.0782	0.00200	"	0.100	ND	78.2	70-130			
o-Xylene	0.0812	0.00200	"	0.100	ND	81.2	70-130			
m,p-Xylene	0.186	0.00400	"	0.200	ND	93.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

**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 B3C1041 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3C1041-MSD1)</b>	<b>Source: Y303257-01</b>				Prepared: 03/11/2023 Analyzed: 03/14/2023					
1,2,4-Trimethylbenzene	0.0802	0.00200	mg/kg	0.100	ND	80.2	70-130	4.10	20	
1,3,5-Trimethylbenzene	0.0834	0.00200	"	0.100	ND	83.4	70-130	4.68	20	
Benzene	0.0909	0.00200	"	0.100	ND	90.9	70-130	6.01	20	
Ethylbenzene	0.0950	0.00200	"	0.100	ND	95.0	70-130	0.910	20	
Naphthalene	0.0726	0.00380	"	0.100	ND	72.6	70-130	1.19	20	
Toluene	0.0803	0.00200	"	0.100	ND	80.3	70-130	2.63	20	
o-Xylene	0.0796	0.00200	"	0.100	ND	79.6	70-130	1.89	20	
m,p-Xylene	0.190	0.00400	"	0.200	ND	94.8	70-130	1.84	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

**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 B3C1301 - EPA 3580</b>										
<b>Blank (B3C1301-BLK1)</b>					Prepared: 03/13/2023 Analyzed: 03/15/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		84.6	50-150			

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

## 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 B3C1301 - EPA 3580

#### LCS (B3C1301-BS1)

Prepared: 03/13/2023 Analyzed: 03/15/2023

Diesel (C10-C28)	906	50.0	mg/kg	1000		90.6	70-130			
Residual Range Organics (C28-C40)	931	200	"	1000		93.1	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.3	50-150			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

## 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 B3C1301 - EPA 3580

Matrix Spike (B3C1301-MS1)		Source: Y303278-01			Prepared: 03/13/2023 Analyzed: 03/15/2023					
Diesel (C10-C28)	860	50.0	mg/kg	1000	ND	86.0	70-130			
Residual Range Organics (C28-C40)	876	200	"	1000	ND	87.6	70-130			
Surrogate: o-Terphenyl	40		"	49.8		81.0	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

**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 B3C1301 - EPA 3580**

Matrix Spike Dup (B3C1301-MSD1)		Source: Y303278-01			Prepared: 03/13/2023 Analyzed: 03/15/2023					
Diesel (C10-C28)	843	50.0	mg/kg	1000	ND	84.3	70-130	2.04	35	
Residual Range Organics (C28-C40)	856	200	"	1000	ND	85.6	70-130	2.25	35	
Surrogate: o-Terphenyl	40		"	49.8		81.3	50-150			

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Dan Coloccia  
Project Number: [none]  
Project: Moonracker 6-27

## 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 B3C1404 - DTPA Sorbitol Preparation

##### Blank (B3C1404-BLK1)

Prepared: 03/14/2023 Analyzed: 03/15/2023

Boron ND 0.100 mg/L

##### Duplicate (B3C1404-DUP1)

Source: Y303259-05

Prepared: 03/14/2023 Analyzed: 03/15/2023

Boron 5.84 0.0981 mg/L 7.07 19.1 50

#### Batch B3C1506 - Saturated Paste Metals

##### Blank (B3C1506-BLK1)

Prepared: 03/15/2023 Analyzed: 03/17/2023

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

##### Duplicate (B3C1506-DUP1)

Source: Y303267-04

Prepared: 03/15/2023 Analyzed: 03/17/2023

SAR 0.00 SAR 0.957 200 200

Calcium PPM 50.7 10.0 mg/L 57.0 11.8 50

Magnesium PPM 13.8 10.0 " 15.2 9.62 50

Sodium PPM 29.0 10.0 " 31.5 8.31 50

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Project Number: [none]  
Project: Moonracker 6-27

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C1516 - Saturated Paste pH/EC</b>										
<b>Blank (B3C1516-BLK1)</b>					Prepared: 03/15/2023 Analyzed: 03/16/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3C1516-DUP1)</b>					<b>Source: Y303267-04</b> Prepared: 03/15/2023 Analyzed: 03/16/2023					
Specific Conductance (EC)	0.708	0.00500	mmhos/cm		0.717			1.25	25	
pH	7.98		pH Units		8.00			0.250	25	

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Eagle Environmental Consulting, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: Moonracker 6-27

### 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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