



December 14, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - KMG - Hudson 11-35A/Eichth O SA Project Number - [none]**

Attached are your analytical results for KMG - Hudson 11-35A/Eichth O SA received by Origins Laboratory, Inc. December 04, 2023. This project is associated with Origins project number Y312067-01.

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: KMG - Hudson 11-35A/Eichth O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST-B01@3"	Y312067-01	Soil	December 4, 2023 12:18	12/04/2023 16:14
PW-B01@3'	Y312067-02	Soil	December 4, 2023 12:22	12/04/2023 16:14
PW-S01@2'	Y312067-03	Soil	December 4, 2023 12:24	12/04/2023 16:14
SEP-B01@4'	Y312067-04	Soil	December 4, 2023 12:28	12/04/2023 16:14
SEP-B02@4'	Y312067-05	Soil	December 4, 2023 12:30	12/04/2023 16:14
PW-BG01@3"	Y312067-06	Soil	December 4, 2023 12:46	12/04/2023 16:14
PW-BG02@3"	Y312067-07	Soil	December 4, 2023 12:48	12/04/2023 16:14
PW-BG03@3"	Y312067-08	Soil	December 4, 2023 12:50	12/04/2023 16:14
PW-BG04@3"	Y312067-09	Soil	December 4, 2023 12:52	12/04/2023 16:14
PW-BG01@3'	Y312067-10	Soil	December 4, 2023 13:20	12/04/2023 16:14
PW-BG01@6'	Y312067-11	Soil	December 4, 2023 13:22	12/04/2023 16:14

Origins Laboratory, Inc.



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**ORIGINS**  
LABORATORY, INC

Initial **4312067**

www.originslaboratory.com

page 1 of 2

Client: Eagle Environmental (oxy)  
 Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
 Telephone Number: 303-433-0479  
 Email Address: dcoloccia@eagle-enviro.com

Project Manager: D. Coloccia  
 Project Name: Hudson 11-35A/Eichth O SA  
 Project Number:             
 Samples Collected By: CB

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Groundwater	Soil	Air Summa Canister #	Analysis						Sample Instructions
				HCl	HNO <sub>3</sub>	Other				Other	BTEX <sub>LN</sub>	TMG <sub>6</sub>	TPH	EC/PH	SAR	
AST-B01E3"	12/4/23	1218	3	X				X			X	X	X	X		1
PW-B01E3'		1222														2
PW-S01E2'		1224														3
SEP-B01E4'		1228														4
SEP-B02E4'		1230														5
PW-B001E3"		1246	2													6
PW-B001E3"		1248														7
PW-B003E3"		1250														8
PW-B004E3"		1252														9
PW-B001E3'		1320														10

Relinquished By: Amo Tordis Date: 12/4/23 Time: 1614  
 Received By: CHS Date: 12/4/23 Time: 1614

Temp Received: 3.5 Date Results Needed

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

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4312067

Client: Eagle  
 Client Project ID: Hudson 1135A/Eichth

Checklist Completed by: EHS

Shipped Via: HO  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

Date/time completed: 12/14/13

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

Cooler Number/Temperature: 1 13.5 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: 7004

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? <b>If yes, contact client and note in narrative.</b>			<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.

[Signature]  
 Reviewed by (Project Manager)

12/14/13  
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**AST-B01@3"**

**12/4/2023 12:18:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312067-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0992	mg/L	1	B3L0506	KAP	12/05/2023	12/06/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0411	ZZZ	12/04/2023	12/05/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	83.4 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0415	HKS	12/04/2023	12/05/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

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**AST-B01@3"**

**12/4/2023 12:18:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y312067-01 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	12/05/2023	12/06/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	7.21		pH Units	1	B3L0513	ACC	12/05/2023	12/06/2023	
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**SAR by 20B Saturated Paste**

SAR	0.0780	0.0100	SAR	1	B3L0509	KAP	12/05/2023	12/06/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0744	0.00500	mmhos/cm	1	B3L0513	ACC	12/05/2023	12/06/2023	
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 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**PW-B01@3'**  
**12/4/2023 12:22:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312067-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.100	mg/L	1	B3L0506	KAP	12/05/2023	12/06/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0411	ZZZ	12/04/2023	12/05/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	91.2 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0415	HKS	12/04/2023	12/05/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

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 Project: KMG - Hudson 11-35A/Eichth O SA

**PW-B01@3'**

**12/4/2023 12:22:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312067-02 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	0.769	0.499	meq/L	10	[CALC]	KAP	12/05/2023	12/06/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	8.13		pH Units	1	B3L0513	ACC	12/05/2023	12/06/2023	
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**SAR by 20B Saturated Paste**

SAR	0.0890	0.0100	SAR	1	B3L0509	KAP	12/05/2023	12/06/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.116	0.00500	mmhos/cm	1	B3L0513	ACC	12/05/2023	12/06/2023	
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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**PW-S01@2'**

**12/4/2023 12:24:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312067-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0983	mg/L	1	B3L0506	KAP	12/05/2023	12/06/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0411	ZZZ	12/04/2023	12/05/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	80.4 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0415	JSM	12/04/2023	12/05/2023	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	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.8 %	70-130			"	"	"	"	

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 Project: KMG - Hudson 11-35A/Eichth O SA

**PW-S01@2'**

**12/4/2023 12:24:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312067-03 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	0.930	0.499	meq/L	10	[CALC]	KAP	12/05/2023	12/06/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	8.24		pH Units	1	B3L0513	ACC	12/05/2023	12/06/2023	
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**SAR by 20B Saturated Paste**

SAR	0.0394	0.0100	SAR	1	B3L0509	KAP	12/05/2023	12/06/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.136	0.00500	mmhos/cm	1	B3L0513	ACC	12/05/2023	12/06/2023	
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Dan Coloccia  
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 Project: KMG - Hudson 11-35A/Eichth O SA

**SEP-B01@4'**

**12/4/2023 12:28:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312067-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0997	mg/L	1	B3L0506	KAP	12/05/2023	12/06/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0411	ZZZ	12/04/2023	12/05/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 78.5 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0415	HKS	12/04/2023	12/05/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "  
 Surrogate: Toluene-d8 102 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

SEP-B01@4'

12/4/2023 12:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y312067-04 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	12/05/2023	12/06/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	7.16		pH Units	1	B3L0513	ACC	12/05/2023	12/06/2023
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**SAR by 20B Saturated Paste**

SAR	0.604	0.0100	SAR	1	B3L0509	KAP	12/05/2023	12/06/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0844	0.00500	mmhos/cm	1	B3L0513	ACC	12/05/2023	12/06/2023
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 Project: KMG - Hudson 11-35A/Eichth O SA

**SEP-B02@4'**

**12/4/2023 12:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312067-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B3L0506	KAP	12/05/2023	12/06/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0411	ZZZ	12/04/2023	12/05/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	78.7 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L0415	HKS	12/04/2023	12/05/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**SEP-B02@4'**

**12/4/2023 12:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312067-05 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.29	0.499	meq/L	10	[CALC]	KAP	12/05/2023	12/06/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	8.38		pH Units	1	B3L0513	ACC	12/05/2023	12/06/2023	
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**SAR by 20B Saturated Paste**

SAR	0.208	0.0100	SAR	1	B3L0509	KAP	12/05/2023	12/06/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.213	0.00500	mmhos/cm	1	B3L0513	ACC	12/05/2023	12/06/2023	
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Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**PW-BG01@3"**

**12/4/2023 12:46:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312067-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0989	mg/L	1	B3L0506	KAP	12/05/2023	12/06/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	12/05/2023	12/06/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	<b>6.26</b>		pH Units	1	B3L0513	ACC	12/05/2023	12/06/2023	
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**SAR by 20B Saturated Paste**

SAR	<b>0.0633</b>	0.0100	SAR	1	B3L0509	KAP	12/05/2023	12/06/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.0682</b>	0.00500	mmhos/cm	1	B3L0513	ACC	12/05/2023	12/06/2023	
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**PW-BG02@3"**

**12/4/2023 12:48:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312067-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.136	0.101	mg/L	1	B3L0506	KAP	12/05/2023	12/06/2023
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.27	0.499	meq/L	10	[CALC]	KAP	12/05/2023	12/06/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.30		pH Units	1	B3L0513	ACC	12/05/2023	12/06/2023
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**SAR by 20B Saturated Paste**

SAR	0.0357	0.0100	SAR	1	B3L0509	KAP	12/05/2023	12/06/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.294	0.00500	mmhos/cm	1	B3L0513	ACC	12/05/2023	12/06/2023
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Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**PW-BG03@3"**

**12/4/2023 12:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312067-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B3L0506	KAP	12/05/2023	12/06/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	<b>0.794</b>	0.499	meq/L	10	[CALC]	KAP	12/05/2023	12/06/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	<b>8.19</b>		pH Units	1	B3L0513	ACC	12/05/2023	12/06/2023	
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**SAR by 20B Saturated Paste**

SAR	<b>0.0472</b>	0.0100	SAR	1	B3L0509	KAP	12/05/2023	12/06/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.110</b>	0.00500	mmhos/cm	1	B3L0513	ACC	12/05/2023	12/06/2023	
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Dan Coloccia  
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 Project: KMG - Hudson 11-35A/Eichth O SA

**PW-BG04@3"**

**12/4/2023 12:52:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y312067-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B3L0506	KAP	12/05/2023	12/06/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	12/05/2023	12/06/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	<b>6.83</b>		pH Units	1	B3L0513	ACC	12/05/2023	12/06/2023	
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**SAR by 20B Saturated Paste**

SAR	<b>0.0477</b>	0.0100	SAR	1	B3L0509	KAP	12/05/2023	12/06/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.0641</b>	0.00500	mmhos/cm	1	B3L0513	ACC	12/05/2023	12/06/2023	
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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**PW-BG01@3'**  
**12/4/2023 1:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312067-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0998	mg/L	1	B3L0506	KAP	12/05/2023	12/06/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	12/05/2023	12/06/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	7.88		pH Units	1	B3L0513	ACC	12/05/2023	12/06/2023	
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**SAR by 20B Saturated Paste**

SAR	0.102	0.0100	SAR	1	B3L0509	KAP	12/05/2023	12/06/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0571	0.00500	mmhos/cm	1	B3L0513	ACC	12/05/2023	12/06/2023	
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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**PW-BG01@6'**

**12/4/2023 1:22:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312067-11 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B3L0506	KAP	12/05/2023	12/06/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	12/05/2023	12/06/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	7.90		pH Units	1	B3L0513	ACC	12/05/2023	12/06/2023	
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**SAR by 20B Saturated Paste**

SAR	0.427	0.0100	SAR	1	B3L0509	KAP	12/05/2023	12/06/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0637	0.00500	mmhos/cm	1	B3L0513	ACC	12/05/2023	12/06/2023	
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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**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
<b>Batch B3L0411 - EPA 3550B</b>										
<b>Blank (B3L0411-BLK1)</b>										
					Prepared: 12/04/2023 Analyzed: 12/04/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		84.4	50-150			

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: KMG - Hudson 11-35A/Eichth O SA

**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 B3L0411 - EPA 3550B**

**LCS (B3L0411-BS1)**

Prepared: 12/04/2023 Analyzed: 12/04/2023

Diesel (C10-C28)	974	50.0	mg/kg	1000		97.4	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000		108	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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: KMG - Hudson 11-35A/Eichth O SA

**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 B3L0411 - EPA 3550B**

<b>Matrix Spike (B3L0411-MS1)</b>	<b>Source: Y312040-01</b>			Prepared: 12/04/2023 Analyzed: 12/04/2023						
Diesel (C10-C28)	868	50.0	mg/kg	1000	ND	86.8	70-130			
Residual Range Organics (C28-C40)	923	200	"	1000	ND	92.3	70-130			
Surrogate: o-Terphenyl	42		"	49.8		83.5	50-150			

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**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
<b>Batch B3L0411 - EPA 3550B</b>										
<b>Matrix Spike Dup (B3L0411-MSD1)</b>					<b>Source: Y312040-01</b>					Prepared: 12/04/2023 Analyzed: 12/04/2023
Diesel (C10-C28)	805	50.0	mg/kg	1000	ND	80.5	70-130	7.54	35	
Residual Range Organics (C28-C40)	836	200	"	1000	ND	83.6	70-130	9.98	35	
Surrogate: o-Terphenyl	40		"	49.8		80.2	50-150			

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: KMG - Hudson 11-35A/Eichth O SA

**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 B3L0415 - EPA 5030 (soil)**

**Blank (B3L0415-BLK1)**

Prepared: 12/04/2023 Analyzed: 12/04/2023

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	0.13		"	0.125	102		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.3		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: KMG - Hudson 11-35A/Eichth O SA

**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 B3L0415 - EPA 5030 (soil)**

**LCS (B3L0415-BS1)**

Prepared: 12/04/2023 Analyzed: 12/04/2023

1,2,4-Trimethylbenzene	0.0843	0.00200	mg/kg	0.100		84.3	70-130			
1,3,5-Trimethylbenzene	0.0836	0.00200	"	0.100		83.6	70-130			
Benzene	0.0891	0.00200	"	0.100		89.1	70-130			
Ethylbenzene	0.0826	0.00200	"	0.100		82.6	70-130			
Naphthalene	0.0950	0.00380	"	0.100		95.0	70-130			
Toluene	0.0893	0.00200	"	0.100		89.3	70-130			
o-Xylene	0.0803	0.00200	"	0.100		80.3	70-130			
m,p-Xylene	0.166	0.00400	"	0.200		83.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		127	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.9	70-130			

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**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 B3L0415 - EPA 5030 (soil)

Matrix Spike (B3L0415-MS1)	Source: Y312040-01			Prepared: 12/04/2023 Analyzed: 12/04/2023						
1,2,4-Trimethylbenzene	0.0915	0.00200	mg/kg	0.100	ND	91.5	70-130			
1,3,5-Trimethylbenzene	0.0907	0.00200	"	0.100	ND	90.7	70-130			
Benzene	0.105	0.00200	"	0.100	ND	105	70-130			
Ethylbenzene	0.0961	0.00200	"	0.100	ND	96.1	70-130			
Naphthalene	0.0876	0.00380	"	0.100	ND	87.6	70-130			
Toluene	0.100	0.00200	"	0.100	ND	100	70-130			
o-Xylene	0.0888	0.00200	"	0.100	ND	88.8	70-130			
m,p-Xylene	0.192	0.00400	"	0.200	ND	96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.2	70-130			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**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 B3L0415 - EPA 5030 (soil)**

Matrix Spike Dup (B3L0415-MSD1)	Source: Y312040-01			Prepared: 12/04/2023 Analyzed: 12/04/2023						
1,2,4-Trimethylbenzene	0.0863	0.00200	mg/kg	0.100	ND	86.3	70-130	5.89	20	
1,3,5-Trimethylbenzene	0.0847	0.00200	"	0.100	ND	84.7	70-130	6.86	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	3.46	20	
Ethylbenzene	0.0900	0.00200	"	0.100	ND	90.0	70-130	6.49	20	
Naphthalene	0.0866	0.00380	"	0.100	ND	86.6	70-130	1.10	20	
Toluene	0.0948	0.00200	"	0.100	ND	94.8	70-130	5.60	20	
o-Xylene	0.0834	0.00200	"	0.100	ND	83.4	70-130	6.18	20	
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.4	70-130	6.11	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.2	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, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**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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**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 B3L0506 - DTPA Sorbitol Preparation**

**Blank (B3L0506-BLK1)**

Prepared: 12/05/2023 Analyzed: 12/06/2023

Boron ND 0.100 mg/L

**Duplicate (B3L0506-DUP1)**

Source: Y312026-01

Prepared: 12/05/2023 Analyzed: 12/06/2023

Boron 0.317 0.101 mg/L 0.340 7.13 50

**Batch B3L0509 - Saturated Paste Metals**

**Blank (B3L0509-BLK1)**

Prepared: 12/05/2023 Analyzed: 12/06/2023

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

**Duplicate (B3L0509-DUP1)**

Source: Y312014-01

Prepared: 12/05/2023 Analyzed: 12/06/2023

Calcium PPM 5.09 10.0 mg/L 5.39 5.73 50

SAR ND 0.0100 SAR 7.21 200

Magnesium PPM 0.630 10.0 mg/L 0.700 10.5 50

Sodium PPM 68.4 10.0 " 67.0 2.08 50

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**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 B3L0513 - Saturated Paste pH/EC**

**Blank (B3L0513-BLK1)**

Prepared: 12/05/2023 Analyzed: 12/06/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3L0513-DUP1)**

**Source: Y312014-01**

Prepared: 12/05/2023 Analyzed: 12/06/2023

Specific Conductance (EC)	0.309	0.00500	mmhos/cm		0.297		3.86	25	
pH	8.73		pH Units		8.72		0.115	25	

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: KMG - Hudson 11-35A/Eichth O SA

---

**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.*

---

Jordan A. Bynon, Project Manager

March 18, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - KMG - Hudson 11-35A/Eichth O SA Project Number - [none]**

Attached are your analytical results for KMG - Hudson 11-35A/Eichth O SA received by Origins Laboratory, Inc. February 27, 2024. This project is associated with Origins project number Y402673-01.

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



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Hudson 11-35A/Eichth O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-B01@5'	Y402673-01	Soil	February 27, 2024 13:55	02/27/2024 16:42
PW-S01@5'	Y402673-02	Soil	February 27, 2024 14:00	02/27/2024 16:42
AST-B01@3'	Y402673-03	Soil	February 27, 2024 14:05	02/27/2024 16:42

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: KMG - Hudson 11-35A/Eichth O SA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y402673

Client: Eagle

Client Project ID: Hudson 11-35A/Eichth

Checklist Completed by: EHS

Shipped Via: FIO

Date/time completed: 2/27/24

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

Airbill #: N/A

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

Cooler Number/Temperature: 1 4.5 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: TOOU

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? <b>If yes, contact client and note in narrative.</b>			<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.

[Signature]  
 Reviewed by (Project Manager)

2/27/24  
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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: KMG - Hudson 11-35A/Eichth O SA

**PW-B01@5'**

**2/27/2024 1:55:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402673-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0997	mg/L	1	B4B2815	02/28/2024	02/29/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B2726	02/27/2024	02/28/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2724	02/27/2024	02/28/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %		70-130			"	"	"	
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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: KMG - Hudson 11-35A/Eichth O SA

**PW-B01@5'**  
**2/27/2024 1:55:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402673-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	100 %		70-130			B4B27 24	02/27/2024	02/28/2024	
Surrogate: 4-Bromofluorobenzene	99.8 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.996		0.499	meq/L	10	[CALC]	02/28/2024	02/29/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.559		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4B2725	02/27/2024	02/28/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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: KMG - Hudson 11-35A/Eichth O SA

**PW-B01@5'**

**2/27/2024 1:55:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402673-01 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4B2725	02/27/2024	02/28/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.0 %		60-130			"	"	"	
Surrogate: Anthracene-d10	99.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	<b>8.28</b>			pH Units	1	B4B2821	02/28/2024	02/29/2024	
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**SAR by 20B Saturated Paste**

SAR	<b>0.715</b>		0.0100	SAR	1	B4B2809	02/28/2024	02/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.229</b>		0.00500	mmhos/cm	1	B4B2821	02/28/2024	02/29/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**PW-B01@5'**

**2/27/2024 1:55:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402673-01 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	1.92	0.251	mg/kg	10	B4B2732	02/27/2024	03/09/2024
Barium	39.6	8.66	"	"	"	"	"
Cadmium	0.115	0.0866	"	"	"	"	"
Copper	ND	8.66	"	"	"	"	"
Lead	4.35	0.866	"	"	"	"	"
Nickel	4.22	0.866	"	"	"	"	"
Selenium	ND	0.225	"	"	"	"	"
Silver	ND	0.0866	"	"	"	"	"
Zinc	34.6	32.0	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737860	02/27/2024	03/14/2024
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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: KMG - Hudson 11-35A/Eichth O SA

**PW-S01@5'**  
**2/27/2024 2:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402673-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0998	mg/L	1	B4B2815	02/28/2024	02/29/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B2726	02/27/2024	02/28/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2724	02/27/2024	02/28/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %		70-130			"	"	"	
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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: KMG - Hudson 11-35A/Eichth O SA

**PW-S01@5'**  
**2/27/2024 2:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402673-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	99.1 %		70-130			B4B27 24	02/27/2024	02/28/2024	
Surrogate: 4-Bromofluorobenzene	99.8 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.885		0.499	meq/L	10	[CALC]	02/28/2024	02/29/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.560		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4B2725	02/27/2024	02/28/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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: KMG - Hudson 11-35A/Eichth O SA

**PW-S01@5'**

**2/27/2024 2:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402673-02 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4B2725	02/27/2024	02/28/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	99.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	<b>8.34</b>			pH Units	1	B4B2821	02/28/2024	02/29/2024	
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**SAR by 20B Saturated Paste**

SAR	<b>0.747</b>		0.0100	SAR	1	B4B2809	02/28/2024	02/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.218</b>		0.00500	mmhos/cm	1	B4B2821	02/28/2024	02/29/2024	
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**Table 915 metals by EPA 6020B**

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: KMG - Hudson 11-35A/Eichth O SA

**PW-S01@5'**

**2/27/2024 2:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402673-02 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	1.71		0.276	mg/kg	10	B4B2732	02/27/2024	03/09/2024	
Barium	34.7		9.52	"	"	"	"	"	
Cadmium	0.0971		0.0952	"	"	"	"	"	
Copper	ND		9.52	"	"	"	"	"	
Lead	4.49		0.952	"	"	"	"	"	
Nickel	3.90		0.952	"	"	"	"	"	
Selenium	ND		0.247	"	"	"	"	"	
Silver	ND		0.0952	"	"	"	"	"	
Zinc	ND		35.2	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737860	02/27/2024	03/14/2024	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**AST-B01@3'**  
**2/27/2024 2:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402673-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.143		0.101	mg/L	1	B4B2815	02/28/2024	02/29/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B2726	02/27/2024	02/28/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2724	02/27/2024	02/28/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %		70-130			"	"	"	
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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**AST-B01@3'**  
**2/27/2024 2:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402673-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	99.1 %		70-130			B4B27 24	02/27/2024	02/28/2024	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.975	0.499	meq/L	10	[CALC]		02/28/2024	02/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	0.446	0.435	"	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.003	0.002	mg/kg	1	B4B2725		02/27/2024	02/28/2024	
2-Methylnaphthalene	0.005	0.002	"	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U

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Dan Coloccia  
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 Project: KMG - Hudson 11-35A/Eichth O SA

**AST-B01@3'**  
**2/27/2024 2:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402673-03 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4B2725	02/27/2024	02/28/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.29			pH Units	1	B4B2821	02/28/2024	02/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.562		0.0100	SAR	1	B4B2809	02/28/2024	02/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.215		0.00500	mmhos/cm	1	B4B2821	02/28/2024	02/29/2024	
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**Table 915 metals by EPA 6020B**

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**AST-B01@3'**

**2/27/2024 2:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402673-03 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.28	0.252	mg/kg	10	B4B2732	02/27/2024	03/09/2024
Barium	44.3	8.70	"	"	"	"	"
Cadmium	0.111	0.0870	"	"	"	"	"
Copper	ND	8.70	"	"	"	"	"
Lead	4.82	0.870	"	"	"	"	"
Nickel	5.74	0.870	"	"	"	"	"
Selenium	ND	0.226	"	"	"	"	"
Silver	ND	0.0870	"	"	"	"	"
Zinc	ND	32.2	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737860	02/27/2024	03/14/2024
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 Project: KMG - Hudson 11-35A/Eichth O SA

**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 B4B2724 - EPA 5030 (soil)**

**Blank (B4B2724-BLK1)**

Prepared: 02/27/2024 Analyzed: 02/27/2024

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	114		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	100		70-130			

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 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**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 B4B2724 - EPA 5030 (soil)

**LCS (B4B2724-BS1)**

Prepared: 02/27/2024 Analyzed: 02/27/2024

1,2,4-Trimethylbenzene	0.0918	0.00200	mg/kg	0.100		91.8	70-130			
1,3,5-Trimethylbenzene	0.0946	0.00200	"	0.100		94.6	70-130			
Benzene	0.0945	0.00200	"	0.100		94.5	70-130			
Ethylbenzene	0.0920	0.00200	"	0.100		92.0	70-130			
Naphthalene	0.102	0.00380	"	0.100		102	70-130			
Toluene	0.0946	0.00200	"	0.100		94.6	70-130			
o-Xylene	0.0906	0.00200	"	0.100		90.6	70-130			
m,p-Xylene	0.183	0.00400	"	0.200		91.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.4	70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**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 B4B2724 - EPA 5030 (soil)

Matrix Spike (B4B2724-MS1)	Source: Y402658-01			Prepared: 02/27/2024 Analyzed: 02/27/2024						
1,2,4-Trimethylbenzene	0.0842	0.00200	mg/kg	0.100	ND	84.2	70-130			
1,3,5-Trimethylbenzene	0.0867	0.00200	"	0.100	ND	86.7	70-130			
Benzene	0.0905	0.00200	"	0.100	ND	90.5	70-130			
Ethylbenzene	0.0852	0.00200	"	0.100	ND	85.2	70-130			
Naphthalene	0.0930	0.00380	"	0.100	ND	93.0	70-130			
Toluene	0.0887	0.00200	"	0.100	0.000520	88.1	70-130			
o-Xylene	0.0833	0.00200	"	0.100	ND	83.3	70-130			
m,p-Xylene	0.168	0.00400	"	0.200	ND	83.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.7	70-130			

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 Project: KMG - Hudson 11-35A/Eichth O SA

**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 B4B2724 - EPA 5030 (soil)

Matrix Spike Dup (B4B2724-MSD1)	Source: Y402658-01			Prepared: 02/27/2024 Analyzed: 02/27/2024						
1,2,4-Trimethylbenzene	0.0812	0.00200	mg/kg	0.100	ND	81.2	70-130	3.60	20	
1,3,5-Trimethylbenzene	0.0841	0.00200	"	0.100	ND	84.1	70-130	3.02	20	
Benzene	0.0881	0.00200	"	0.100	ND	88.1	70-130	2.62	20	
Ethylbenzene	0.0831	0.00200	"	0.100	ND	83.1	70-130	2.52	20	
Naphthalene	0.0933	0.00380	"	0.100	ND	93.3	70-130	0.301	20	
Toluene	0.0862	0.00200	"	0.100	0.000520	85.6	70-130	2.86	20	
o-Xylene	0.0820	0.00200	"	0.100	ND	82.0	70-130	1.52	20	
m,p-Xylene	0.164	0.00400	"	0.200	ND	82.0	70-130	2.34	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.4	70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**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 B4B2726 - EPA 3550B</b>										
<b>Blank (B4B2726-BLK1)</b>										
					Prepared: 02/27/2024 Analyzed: 02/27/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		96.6	50-150			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**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 B4B2726 - EPA 3550B**

**LCS (B4B2726-BS1)**

Prepared: 02/27/2024 Analyzed: 02/27/2024

Diesel (C10-C28)	839	50.0	mg/kg	1000		83.9	70-130			
Residual Range Organics (C28-C40)	943	200	"	1000		94.3	70-130			
Surrogate: o-Terphenyl	43		"	49.8		87.2	50-150			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**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 B4B2726 - EPA 3550B**

<b>Matrix Spike (B4B2726-MS1)</b>	<b>Source: Y402672-02</b>			Prepared: 02/27/2024 Analyzed: 02/27/2024						
Diesel (C10-C28)	971	50.0	mg/kg	1000	249	72.3	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000	197	87.0	70-130			
Surrogate: o-Terphenyl	40		"	49.8		81.2	50-150			

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Dan Coloccia  
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 Project: KMG - Hudson 11-35A/Eichth O SA

**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 B4B2726 - EPA 3550B**

<b>Matrix Spike Dup (B4B2726-MSD1)</b>	<b>Source: Y402672-02</b>			<b>Prepared: 02/27/2024 Analyzed: 02/27/2024</b>						
Diesel (C10-C28)	965	50.0	mg/kg	1000	249	71.6	70-130	0.666	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	197	86.1	70-130	0.862	35	
Surrogate: o-Terphenyl	49		"	49.8		98.3	50-150			

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 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**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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**Metals by EPA 6000/7000 Series Methods - 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 B4B2732 - EPA 3050B**

**Blank (B4B2732-BLK1)**

Prepared: 02/27/2024 Analyzed: 03/08/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

**LCS (B4B2732-BS1)**

Prepared: 02/27/2024 Analyzed: 03/08/2024

Arsenic	5.46	0.290	mg/kg	5.00		109	80-120			
Barium	481	10.0	"	500		96.2	80-120			
Cadmium	5.90	0.100	"	5.00		118	80-120			
Copper	48.0	10.0	"	50.0		95.9	80-120			
Lead	4.79	1.00	"	5.00		95.8	80-120			
Nickel	5.69	1.00	"	5.00		114	80-120			
Selenium	10.4	0.260	"	9.50		109	80-120			
Silver	5.22	0.100	"	5.00		104	80-120			
Zinc	59.6	37.0	"	50.0		119	80-120			

**Matrix Spike (B4B2732-MS1)**

Source: Y402664-13

Prepared: 02/27/2024 Analyzed: 03/08/2024

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**Metals by EPA 6000/7000 Series Methods - 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 B4B2732 - EPA 3050B**

<b>Matrix Spike (B4B2732-MS1)</b>		<b>Source: Y402664-13</b>			Prepared: 02/27/2024 Analyzed: 03/08/2024					
Arsenic	9.61	0.259	mg/kg	4.46	4.84	107	75-125			
Barium	656	8.91	"	446	195	103	75-125			
Cadmium	5.50	0.0891	"	4.46	0.212	119	75-125			
Copper	46.3	8.91	"	44.6	3.98	94.8	75-125			
Lead	16.6	0.891	"	4.46	13.0	80.4	75-125			
Nickel	17.9	0.891	"	4.46	13.1	107	75-125			
Selenium	8.03	0.232	"	8.47	0.164	92.9	75-125			
Silver	4.62	0.0891	"	4.46	0.0514	102	75-125			
Zinc	121	33.0	"	44.6	75.1	103	75-125			

<b>Matrix Spike Dup (B4B2732-MSD1)</b>		<b>Source: Y402664-13</b>			Prepared: 02/27/2024 Analyzed: 03/08/2024					
Arsenic	10.0	0.275	mg/kg	4.75	4.84	109	75-125	4.05	20	
Barium	635	9.49	"	475	195	92.9	75-125	3.15	20	
Cadmium	5.80	0.0949	"	4.75	0.212	118	75-125	5.15	20	
Copper	49.7	9.49	"	47.5	3.98	96.3	75-125	7.15	20	
Lead	17.2	0.949	"	4.75	13.0	89.1	75-125	3.80	20	
Nickel	18.5	0.949	"	4.75	13.1	112	75-125	2.94	20	
Selenium	9.42	0.247	"	9.02	0.164	103	75-125	16.0	20	
Silver	4.89	0.0949	"	4.75	0.0514	102	75-125	5.61	20	
Zinc	129	35.1	"	47.5	75.1	114	75-125	6.65	20	

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4B2725 - EPA 3580**

**Blank (B4B2725-BLK1)**

Prepared: 02/27/2024 Analyzed: 02/27/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		98.5	60-130			
Surrogate: Anthracene-d10	200		"	200		99.6	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

**LCS (B4B2725-BS1)**

Prepared: 02/27/2024 Analyzed: 02/27/2024

1-Methylnaphthalene	0.187	0.002	mg/kg	0.200		93.4	70-130			
2-Methylnaphthalene	0.184	0.002	"	0.200		92.1	70-130			
Acenaphthene	0.187	0.020	"	0.200		93.4	70-130			
Anthracene	0.183	0.020	"	0.200		91.7	70-130			

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4B2725 - EPA 3580**

**LCS (B4B2725-BS1)**

Prepared: 02/27/2024 Analyzed: 02/27/2024

Benzo (a) anthracene	0.179	0.005	mg/kg	0.200		89.6	70-130			
Benzo (a) pyrene	0.213	0.020	"	0.200		107	70-130			
Benzo (b) fluoranthene	0.200	0.020	"	0.200		100	70-130			
Benzo (g,h,i) perylene	0.199	0.020	"	0.200		99.6	70-130			
Benzo (k) fluoranthene	0.193	0.020	"	0.200		96.5	70-130			
Chrysene	0.192	0.020	"	0.200		95.9	70-130			
Dibenz (a,h) anthracene	0.215	0.020	"	0.200		108	70-130			
Fluoranthene	0.184	0.020	"	0.200		91.8	70-130			
Fluorene	0.183	0.020	"	0.200		91.4	70-130			
Indeno (1,2,3-cd) pyrene	0.194	0.020	"	0.200		97.2	70-130			
Naphthalene	0.188	0.002	"	0.200		94.1	70-130			
Phenanthrene	0.194	0.020	"	0.200		96.9	70-130			
Pyrene	0.193	0.020	"	0.200		96.4	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	200		"	200		98.2	60-130			
Surrogate: Pyrene-d10	200		"	200		97.6	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

**Matrix Spike (B4B2725-MS1)**

Source: Y402671-01

Prepared: 02/27/2024 Analyzed: 02/27/2024

1-Methylnaphthalene	0.196	0.002	mg/kg	0.200	ND	98.0	70-130			
2-Methylnaphthalene	0.194	0.002	"	0.200	ND	97.2	70-130			
Acenaphthene	0.195	0.020	"	0.200	0.0003	97.4	70-130			
Anthracene	0.205	0.020	"	0.200	ND	103	70-130			
Benzo (a) anthracene	0.176	0.005	"	0.200	0.002	87.1	70-130			
Benzo (a) pyrene	0.223	0.020	"	0.200	ND	112	70-130			
Benzo (b) fluoranthene	0.189	0.020	"	0.200	ND	94.5	70-130			
Benzo (g,h,i) perylene	0.181	0.020	"	0.200	0.0007	90.3	70-130			

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4B2725 - EPA 3580**

<b>Matrix Spike (B4B2725-MS1)</b>		<b>Source: Y402671-01</b>			Prepared: 02/27/2024 Analyzed: 02/27/2024					
Benzo (k) fluoranthene	0.188	0.020	mg/kg	0.200	ND	93.8	70-130			
Chrysene	0.197	0.020	"	0.200	ND	98.3	70-130			
Dibenz (a,h) anthracene	0.214	0.020	"	0.200	ND	107	70-130			
Fluoranthene	0.187	0.020	"	0.200	ND	93.7	70-130			
Fluorene	0.195	0.020	"	0.200	0.0004	97.1	70-130			
Indeno (1,2,3-cd) pyrene	0.204	0.020	"	0.200	ND	102	70-130			
Naphthalene	0.197	0.002	"	0.200	ND	98.5	70-130			
Phenanthrene	0.202	0.020	"	0.200	ND	101	70-130			
Pyrene	0.204	0.020	"	0.200	ND	102	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	200		"	200		98.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

<b>Matrix Spike Dup (B4B2725-MSD1)</b>		<b>Source: Y402671-01</b>			Prepared: 02/27/2024 Analyzed: 02/27/2024					
1-Methylnaphthalene	0.190	0.002	mg/kg	0.200	ND	95.2	70-130	2.82	20	
2-Methylnaphthalene	0.188	0.002	"	0.200	ND	94.2	70-130	3.09	20	
Acenaphthene	0.186	0.020	"	0.200	0.0003	93.0	70-130	4.57	20	
Anthracene	0.192	0.020	"	0.200	ND	95.9	70-130	6.84	20	
Benzo (a) anthracene	0.171	0.005	"	0.200	0.002	84.5	70-130	3.00	20	
Benzo (a) pyrene	0.202	0.020	"	0.200	ND	101	70-130	9.94	20	
Benzo (b) fluoranthene	0.192	0.020	"	0.200	ND	96.1	70-130	1.67	20	
Benzo (g,h,i) perylene	0.188	0.020	"	0.200	0.0007	93.5	70-130	3.48	20	
Benzo (k) fluoranthene	0.199	0.020	"	0.200	ND	99.3	70-130	5.74	20	
Chrysene	0.196	0.020	"	0.200	ND	98.1	70-130	0.147	20	
Dibenz (a,h) anthracene	0.221	0.020	"	0.200	ND	110	70-130	3.29	20	
Fluoranthene	0.205	0.020	"	0.200	ND	102	70-130	8.78	20	

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4B2725 - EPA 3580

Matrix Spike Dup (B4B2725-MSD1)	Source: Y402671-01			Prepared: 02/27/2024 Analyzed: 02/27/2024						
Fluorene	0.186	0.020	mg/kg	0.200	0.0004	92.8	70-130	4.46	20	
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200	ND	99.2	70-130	2.99	20	
Naphthalene	0.191	0.002	"	0.200	ND	95.7	70-130	2.88	20	
Phenanthrene	0.198	0.020	"	0.200	ND	99.1	70-130	1.85	20	
Pyrene	0.221	0.020	"	0.200	ND	110	70-130	7.74	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.5	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.6	60-130			

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 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**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 B4B2809 - Saturated Paste Metals**

**Blank (B4B2809-BLK1)**

Prepared: 02/28/2024 Analyzed: 02/29/2024

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

**Duplicate (B4B2809-DUP1)**

**Source: Y402672-07**

Prepared: 02/28/2024 Analyzed: 02/29/2024

SAR	ND	0.0100	SAR		15.9				200	
Calcium PPM	85.6	10.0	mg/L		43.8			64.6	50	QR-DUP
Magnesium PPM	36.4	10.0	"		23.6			42.5	50	
Sodium PPM	474	10.0	"		524			10.1	50	

**Batch B4B2815 - DTPA Sorbitol Preparation**

**Blank (B4B2815-BLK1)**

Prepared: 02/28/2024 Analyzed: 02/29/2024

Boron	ND	0.100	mg/L							
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**Duplicate (B4B2815-DUP1)**

**Source: Y402575-01**

Prepared: 02/28/2024 Analyzed: 02/29/2024

Boron	0.0386	0.102	mg/L		0.0313			21.1	50	
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 Project: KMG - Hudson 11-35A/Eichth O SA

**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 B4B2821 - Saturated Paste pH/EC</b>										
<b>Blank (B4B2821-BLK1)</b>					Prepared: 02/28/2024 Analyzed: 02/29/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B4B2821-DUP1)</b>					<b>Source: Y402672-07</b> Prepared: 02/28/2024 Analyzed: 02/29/2024					
pH	8.43		pH Units		8.51		0.945	25		
Specific Conductance (EC)	2.45	0.00500	mmhos/cm		2.47		0.793	25		

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Hudson 11-35A/Eichth O SA

**Total Metals by 7196A - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L737860 -</b>										
<b>DUP (L 99009-DUP)</b>		<b>Source: 99009</b>			Prepared: Analyzed: 03/14/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 99009-MS)</b>		<b>Source: 99009</b>			Prepared: Analyzed: 03/14/2024					
Chromium, Hexavalent	32	2.5	mg/Kg	39.2	< 0.244	82	75-125			
<b>LCS (LCS)</b>		Prepared: Analyzed: 03/14/2024								
Chromium, Hexavalent	6.07	0.5	mg/Kg	8		76	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 03/14/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Hudson 11-35A/Eichth O SA

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### Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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Jordan A. Bynon, Project Manager