



July 19, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Pluss G #25-7

Project Number - [none]

Attached are your analytical results for Noble - Pluss G #25-7 received by Origins Laboratory, Inc. June 30, 2023. This project is associated with Origins project number Y306881-01.

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Pluss G #25-7

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y306881-01	Soil	June 30, 2023 0:00	06/30/2023 14:50
WH-SS-01@5'	Y306881-02	Soil	June 30, 2023 0:00	06/30/2023 14:50
WH-SS-02@5'	Y306881-03	Soil	June 30, 2023 0:00	06/30/2023 14:50
WH-SS-03@5'	Y306881-04	Soil	June 30, 2023 0:00	06/30/2023 14:50
WH-SS-04@5'	Y306881-05	Soil	June 30, 2023 0:00	06/30/2023 14:50

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Other	Analysis	Sample Instructions
				HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #			
WH-SS-01-025	6/30/23		3	X			X				ET, SFG, H <sub>2</sub> O <sub>2</sub>	
WH-SS-02-025											Shake! Prior to use	
WH-SS-03-025												
WH-SS-04-025												
WH-SS-05-025												
WH-SS-06-025												

Temp Received: 4

Date Results Needed: 4

Requisitioned By: CT Date: 6/30/23 Time: 1:50  
 Received By: CT Date: 6/30/23 Time: 1:50  
 Inground Time:  10  9  8  7  6  5  4  3  2  1

Client: Eagle Environmental Consulting, LLC  
 Address: 8000 W 44th Ave  
 Phone Number: 303.433.1322  
 Email Address: mcc@eagle-environmental.com  
 Project Manager: Martin Eckert III  
 Project Name: Pluss G #25-07  
 Project Number: [none]  
 Samples Collected By: CT



1300781

Origins Laboratory, Inc.

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# ORIGINS LABORATORY, INC

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Pluss G #25-7

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

### Sample Receipt Checklist

Origins Work Order: YB062881 Client: Eagle  
 Checklist Completed by: DH1945 Client Project ID: PLUSS G 25-7  
 Date/time completed: 1/30/23 Shipped Via: \_\_\_\_\_  
 (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 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °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"/>			Missing Sample Times on COC Samples
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 > 10 for samples preserved with HNO3, HCL, H2SO4) (pH > 10 for samples preserved with NaAsO2+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 be in the additional comments (above) and the case narrative.

Reviewed by: JP (Project Manager)

Date/Time Reviewed: 1/30/23

Origins Laboratory, Inc.



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Jordan A. Bynon For Jen Pellegrini, Project Manager

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**WH-FS-01@6'**  
**6/30/2023 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306881-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.489		0.0982	mg/L	1	B3G0307	07/03/2023	07/06/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	1480		25.0	mg/kg	1	B3G0501	07/05/2023	07/07/2023	
Residual Range Organics (C28-C40)	223		100	"	"	"	"	"	

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

1,2,4-Trimethylbenzene	11.3		0.500	mg/kg	250	B3G0718	07/07/2023	07/12/2023	
1,3,5-Trimethylbenzene	14.2		0.500	"	"	"	"	"	
Benzene	ND		0.0500	"	25	"	"	07/07/2023	R-05, U
Ethylbenzene	6.83		0.0500	"	"	"	"	"	
Naphthalene	0.802		0.0950	"	"	"	"	"	R-05
Toluene	ND		0.0500	"	"	"	"	"	U
Xylenes, total	17.7		0.0500	"	"	"	"	"	
Gasoline Range Hydrocarbons	452		5.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.1 %		70-130	"	"	"	"	"	
Surrogate: Toluene-d8	147 %		70-130	"	"	"	"	"	S-GC

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**WH-FS-01@6'**  
**6/30/2023 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306881-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	92.8 %		70-130			B3G07 18	07/07/2023	07/07/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.571		0.499	meq/L	10	[CALC]	07/05/2023	07/06/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.86		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	1.06	0.00549	0.0101	mg/Kg	5	L691488	07/07/2023	07/10/2023	
2-Methylnaphthalene	1.23	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	0.0913	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.00484	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.015	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00422	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	0.00386	0.00197	0.00335	"	"	"	"	"	
Fluorene	0.212	0.00143	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	

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 Project: Noble - Pluss G #25-7

**WH-FS-01@6'**  
**6/30/2023 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y306881-01 (Soil)**

**PAH by 8270D SIM**

Pyrene	0.0114	0.00322	0.00335	mg/Kg	5	L691488	07/07/2023	07/10/2023	
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Surrogate: 2-Fluorobiphenyl	60.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	54.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.7 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.96			pH Units	1	B3G0512	07/05/2023	07/06/2023	
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**SAR by 20B Saturated Paste**


SAR	2.96			SAR	1	B3G0504	07/05/2023	07/06/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.596		0.00500	mmhos/cm	1	B3G0512	07/05/2023	07/06/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	2.09		0.0948	mg/kg	10	B3G1428	07/14/2023	07/17/2023	
Barium	63.8		9.48	"	"	"	"	"	
Cadmium	ND		0.0948	"	"	"	"	"	
Copper	ND		9.48	"	"	"	"	"	

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**WH-FS-01@6'**  
**6/30/2023 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306881-01 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	ND		9.48	mg/kg	10	B3G1428	07/14/2023	07/17/2023	
Nickel	ND		9.48	"	"	"	"	"	
Selenium	ND		0.0948	"	"	"	"	"	
Silver	ND		0.0948	"	"	"	"	"	
Zinc	ND		94.8	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.25	0.513	mg/Kg	1	L693395	06/30/2023	07/18/2023	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**WH-SS-01@5'**  
**6/30/2023 12:00:00AM**

**Origins Laboratory, Inc.**  
**Y306881-02 (Soil)**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.169		0.0984	mg/L	1	B3G0307	07/03/2023	07/06/2023	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3G0501	07/05/2023	07/07/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	96.7%		50-150	"	"	"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3G0718	07/07/2023	07/07/2023	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

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

WH-SS-01@5'  
 6/30/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306881-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			B3G07 18	07/07/2023	07/07/2023	
Surrogate: Toluene-d8	96.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.1 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.04		0.499	meq/L	10	[CALC]	07/05/2023	07/06/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L691488	07/07/2023	07/10/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**WH-SS-01@5'**  
**6/30/2023 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y306881-02 (Soil)**

**PAH by 8270D SIM**

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L691488	07/07/2023	07/10/2023	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	49.5 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	52.6 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	45.3 %		29-110			"	"	"	"

**pH in Soil by 9045D**

pH	<b>8.64</b>			pH Units	1	B3G0512	07/05/2023	07/06/2023	
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**SAR by 20B Saturated Paste**

SAR	<b>0.362</b>			SAR	1	B3G0504	07/05/2023	07/06/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.395</b>		0.00500	mmhos/cm	1	B3G0512	07/05/2023	07/06/2023	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**WH-SS-02@5'**  
**6/30/2023 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306881-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B3G0307	07/03/2023	07/06/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	75.8		25.0	mg/kg	1	B3G0501	07/05/2023	07/07/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 98.1% 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3G0718	07/07/2023	07/07/2023	U
1,3,5-Trimethylbenzene	0.0152		0.00200	"	"	"	"	"	"
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	1.12		0.200	"	"	"	"	"	"

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 8000 W 44th Ave  
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Martin C Eckert III  
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 Project: Noble - Pluss G #25-7

**WH-SS-02@5'**  
**6/30/2023 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306881-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			B3G07 18	07/07/2023	07/07/2023	
Surrogate: Toluene-d8	97.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.59		0.499	meq/L	10	[CALC]	07/05/2023	07/06/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.0108	0.00109	0.00201	mg/Kg	1	L691488	07/07/2023	07/10/2023	
2-Methylnaphthalene	0.003	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00209	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000647	0.000493	0.00067	"	"	"	"	"	J
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00138	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000662	0.000437	0.00067	"	"	"	"	"	J
Chrysene	0.00181	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00128	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000395	0.000394	0.00067	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**WH-SS-02@5'**  
**6/30/2023 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y306881-03 (Soil)**

**PAH by 8270D SIM**

Fluorene	0.013	0.000286	0.00067	mg/Kg	1	L691488	07/07/2023	07/10/2023	
Indeno(1,2,3-cd)pyrene	0.00135	0.000627	0.00067	"	"	"	"	"	"
Pyrene	0.00114	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	48.6 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	53.2 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	46.2 %		29-110			"	"	"	"

**pH in Soil by 9045D**

pH	8.71			pH Units	1	B3G0512	07/05/2023	07/06/2023	
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**SAR by 20B Saturated Paste**

SAR	0.178			SAR	1	B3G0504	07/05/2023	07/06/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.361		0.00500	mmhos/cm	1	B3G0512	07/05/2023	07/06/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	1.89		0.0911	mg/kg	10	B3G1428	07/14/2023	07/17/2023	
Barium	49.4		9.11	"	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**WH-SS-02@5'**  
**6/30/2023 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306881-03 (Soil)**

**Table 915 metals by EPA 6020B**

Cadmium	0.116		0.0911	mg/kg	10	B3G1428	07/14/2023	07/17/2023	
Copper	ND		9.11	"	"	"	"	"	"
Lead	30.2		9.11	"	"	"	"	"	"
Nickel	ND		9.11	"	"	"	"	"	"
Selenium	0.0966		0.0911	"	"	"	"	"	"
Silver	ND		0.0911	"	"	"	"	"	"
Zinc	ND		91.1	"	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L693395	06/30/2023	07/18/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**WH-SS-03@5'**  
**6/30/2023 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306881-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.181		0.100	mg/L	1	B3G0307	07/03/2023	07/06/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3G0501	07/05/2023	07/07/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	101%		50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3G0718	07/07/2023	07/07/2023	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

Origins Laboratory, Inc.

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**WH-SS-03@5'**  
**6/30/2023 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306881-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			B3G07 18	07/07/2023	07/07/2023	
Surrogate: Toluene-d8	92.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.2 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	5.18		0.499	meq/L	10	[CALC]	07/05/2023	07/06/2023	
Magnesium	1.28		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L691488	07/07/2023	07/10/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**WH-SS-03@5'**  
**6/30/2023 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y306881-04 (Soil)**

**PAH by 8270D SIM**

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L691488	07/07/2023	07/10/2023	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.1 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	62.2 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	49.5 %		29-110			"	"	"	"

**pH in Soil by 9045D**

pH	7.73			pH Units	1	B3G0512	07/05/2023	07/06/2023	
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**SAR by 20B Saturated Paste**

SAR	0.187			SAR	1	B3G0504	07/05/2023	07/06/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.817		0.00500	mmhos/cm	1	B3G0512	07/05/2023	07/06/2023	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**WH-SS-04@5'**  
**6/30/2023 12:00:00AM**

**Origins Laboratory, Inc.**  
**Y306881-05 (Soil)**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.143		0.0995	mg/L	1	B3G0307	07/03/2023	07/06/2023	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3G0501	07/05/2023	07/07/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	96.2 %		50-150	"	"	"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3G0718	07/07/2023	07/07/2023	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

Origins Laboratory, Inc.  


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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**WH-SS-04@5'**  
**6/30/2023 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306881-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			B3G07 18	07/07/2023	07/07/2023	
Surrogate: Toluene-d8	93.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.48		0.499	meq/L	10	[CALC]	07/05/2023	07/06/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.650		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L691488	07/07/2023	07/10/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**WH-SS-04@5'**  
**6/30/2023 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y306881-05 (Soil)**

**PAH by 8270D SIM**

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L691488	07/07/2023	07/10/2023	
Fluorene	<b>0.00079</b>	<b>0.000286</b>	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50.5 %		33-115	"	"	"	"	"	"
Surrogate: 4-Terphenyl-d14	54.4 %		33-122	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	49.2 %		29-110	"	"	"	"	"	"

**pH in Soil by 9045D**

pH	<b>9.50</b>			pH Units	1	B3G0512	07/05/2023	07/06/2023	
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**SAR by 20B Saturated Paste**

SAR	<b>0.532</b>			SAR	1	B3G0504	07/05/2023	07/06/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.660</b>		0.00500	mmhos/cm	1	B3G0512	07/05/2023	07/06/2023	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**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 B3G0501 - EPA 3550B**

Prepared: 07/05/2023 Analyzed: 07/07/2023

**Blank (B3G0501-BLK1)**

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		106	50-150			

Origins Laboratory, Inc.

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**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 B3G0501 - EPA 3550B**

**LCS (B3G0501-BS1)**

Prepared: 07/05/2023 Analyzed: 07/07/2023

Diesel (C10-C28)	896	50.0	mg/kg	1000		89.6	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000		113	70-130			
Surrogate: o-Terphenyl	48		"	49.8		95.9	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**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 B3G0501 - EPA 3550B

Matrix Spike (B3G0501-MS1)

Source: Y306881-01

Prepared: 07/05/2023 Analyzed: 07/07/2023

Diesel (C10-C28)	2160	50.0	mg/kg	1000	1480	67.6	70-130			QM-07
Residual Range Organics (C28-C40)	1170	200	"	1000	223	94.7	70-130			
Surrogate: o-Terphenyl	69		"	49.8		139	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**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 B3G0501 - EPA 3550B

Matrix Spike Dup (B3G0501-MSD1)

Source: Y306881-01

Prepared: 07/05/2023 Analyzed: 07/07/2023

Diesel (C10-C28)	2290	50.0	mg/kg	1000	1480	80.6	70-130	5.86	35	
Residual Range Organics (C28-C40)	1200	200	"	1000	223	97.4	70-130	2.26	35	
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**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 B3G0718 - EPA 5030 (soil)**

**Blank (B3G0718-BLK1)**

Prepared: 07/07/2023 Analyzed: 07/07/2023

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		97.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.4	70-130			

Origins Laboratory, Inc.

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**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 B3G0718 - EPA 5030 (soil)

LCS (B3G0718-BS1)

Prepared: 07/07/2023 Analyzed: 07/07/2023

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.0925	0.00200	"	0.100		92.5	70-130			
Ethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Naphthalene	0.101	0.00380	"	0.100		101	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.207	0.00400	"	0.200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	70-130			

Origins Laboratory, Inc.

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**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 B3G0718 - EPA 5030 (soil)

Matrix Spike (B3G0718-MS1)

Source: Y306881-02

Prepared: 07/07/2023 Analyzed: 07/07/2023

1,2,4-Trimethylbenzene	0.0898	0.00200	mg/kg	0.100	ND	89.8	70-130			
1,3,5-Trimethylbenzene	0.0976	0.00200	"	0.100	ND	97.6	70-130			
Benzene	0.0843	0.00200	"	0.100	ND	84.3	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.0920	0.00380	"	0.100	ND	92.0	70-130			
Toluene	0.0939	0.00200	"	0.100	ND	93.9	70-130			
o-Xylene	0.100	0.00200	"	0.100	ND	100	70-130			
m,p-Xylene	0.198	0.00400	"	0.200	ND	99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**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 B3G0718 - EPA 5030 (soil)

Matrix Spike Dup (B3G0718-MSD1)

Source: Y306881-02

Prepared: 07/07/2023 Analyzed: 07/07/2023

1,2,4-Trimethylbenzene	0.0508	0.00200	mg/kg	0.100	ND	50.8	70-130	55.4	20	QM-07
1,3,5-Trimethylbenzene	0.0629	0.00200	"	0.100	ND	62.9	70-130	43.2	20	QM-07
Benzene	0.0653	0.00200	"	0.100	ND	65.3	70-130	25.4	20	QM-07
Ethylbenzene	0.0683	0.00200	"	0.100	ND	68.3	70-130	39.0	20	QM-07
Naphthalene	0.0634	0.00380	"	0.100	ND	63.4	70-130	36.8	20	QM-07
Toluene	0.0663	0.00200	"	0.100	ND	66.3	70-130	34.4	20	QM-07
o-Xylene	0.0688	0.00200	"	0.100	ND	68.8	70-130	37.4	20	QM-07
m,p-Xylene	0.127	0.00400	"	0.200	ND	63.4	70-130	43.9	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**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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**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 B3G1428 - EPA 3050B**

**Blank (B3G1428-BLK1)**

Prepared: 07/14/2023 Analyzed: 07/17/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

**LCS (B3G1428-BS1)**

Prepared: 07/14/2023 Analyzed: 07/17/2023

Arsenic	0.0534	0.000100	mg/kg	0.0500		107	80-120			
Barium	5.48	0.0100	"	5.00		110	80-120			
Cadmium	0.0515	0.000100	"	0.0500		103	80-120			
Copper	0.558	0.0100	"	0.500		112	80-120			
Lead	0.0528	0.0100	"	0.0500		106	80-120			
Nickel	0.0545	0.0100	"	0.0500		109	80-120			
Selenium	0.0550	0.000100	"	0.0500		110	80-120			
Silver	0.0518	0.000100	"	0.0500		104	80-120			
Zinc	0.527	0.100	"	0.500		105	80-120			

**Matrix Spike (B3G1428-MS1)**

Source: Y307283-01

Prepared: 07/14/2023 Analyzed: 07/17/2023

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**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 B3G1428 - EPA 3050B**

**Matrix Spike (B3G1428-MS1)**

**Source: Y307283-01**

Prepared: 07/14/2023 Analyzed: 07/17/2023

Arsenic	6.21	0.0978	mg/kg	4.89	1.10	105	75-125			
Barium	574	9.78	"	489	32.8	111	75-125			
Cadmium	5.09	0.0978	"	4.89	0.0786	102	75-125			
Copper	57.5	9.78	"	48.9	3.76	110	75-125			
Lead	14.3	9.78	"	4.89	7.49	139	75-125			QM-07
Nickel	8.32	9.78	"	4.89	2.59	117	75-125			
Selenium	5.13	0.0978	"	4.89	0.0479	104	75-125			
Silver	5.18	0.0978	"	4.89	0.00723	106	75-125			
Zinc	66.3	97.8	"	48.9	14.4	106	75-125			

**Matrix Spike Dup (B3G1428-MSD1)**

**Source: Y307283-01**

Prepared: 07/14/2023 Analyzed: 07/17/2023

Arsenic	6.31	0.0937	mg/kg	4.69	1.10	111	75-125	1.68	20	
Barium	546	9.37	"	469	32.8	110	75-125	5.06	20	
Cadmium	4.91	0.0937	"	4.69	0.0786	103	75-125	3.54	20	
Copper	55.0	9.37	"	46.9	3.76	109	75-125	4.51	20	
Lead	12.9	9.37	"	4.69	7.49	116	75-125	10.0	20	
Nickel	8.86	9.37	"	4.69	2.59	134	75-125	6.32	20	QM-07
Selenium	4.81	0.0937	"	4.69	0.0479	102	75-125	6.52	20	
Silver	4.94	0.0937	"	4.69	0.00723	105	75-125	4.57	20	
Zinc	65.0	93.7	"	46.9	14.4	108	75-125	2.07	20	

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**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 B3G0307 - DTPA Sorbitol Preparation**

**Blank (B3G0307-BLK1)**

Prepared: 07/03/2023 Analyzed: 07/06/2023

Boron ND 0.100 mg/L

**Duplicate (B3G0307-DUP1)**

**Source: Y306844-01**

Prepared: 07/03/2023 Analyzed: 07/06/2023

Boron 0.390 0.100 mg/L 0.452 14.8 50

**Batch B3G0504 - Saturated Paste Metals**

**Blank (B3G0504-BLK1)**

Prepared: 07/05/2023 Analyzed: 07/06/2023

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

**Duplicate (B3G0504-DUP1)**

**Source: Y306881-01**

Prepared: 07/05/2023 Analyzed: 07/06/2023

Calcium PPM 10.3 10.0 mg/L 11.4 11.0 50

SAR 0.00 SAR 2.96 200 200

Magnesium PPM 2.36 10.0 mg/L 2.68 12.7 50

Sodium PPM 40.4 10.0 " 42.8 5.70 50

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**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 B3G0512 - Saturated Paste pH/EC**

**Blank (B3G0512-BLK1)**

Prepared: 07/05/2023 Analyzed: 07/06/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3G0512-DUP1)**

**Source: Y306881-01**

Prepared: 07/05/2023 Analyzed: 07/06/2023

pH 8.34 pH Units 7.96 4.66 25

Specific Conductance (EC) 0.571 0.00500 mmhos/cm 0.596 4.27 25

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**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
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Batch L693395 -

**DUP (L 99815-DUP)**

Source: 99815

Prepared: Analyzed: 07/18/2023

Chromium, Hexavalent	ND	0.503	mg/Kg		<0.503	-	0	20		
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**MS (L 99815-MS)**

Source: 99815

Prepared: Analyzed: 07/18/2023

Chromium, Hexavalent	33.2	2.54	mg/Kg	40.6	<1.24	82	75-125			
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**LCS (LCS)**

Prepared: Analyzed: 07/18/2023

Chromium, Hexavalent	6.91	0.5	mg/Kg	8		86	75-125			
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**LRB (LRB)**

Prepared: Analyzed: 07/18/2023

Chromium, Hexavalent	ND	0.5	mg/Kg			-				
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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L691488 - 3550B**

**MSD (L 96424-MSD-L691488)**

**Source: Y306881-05**

Prepared: 07/07/2023 Analyzed: 07/10/2023

Pyrene	0.118	0.00067	mg/Kg	0.164	<0.000643	71.9	30-130	8.1	30	
Benzo(a)pyrene	0.122	0.00067	"	0.164	<0.000468	74.3	30-130	4.1	30	
Benzo(a)anthracene	0.116	0.00067	"	0.164	<0.000493	70.7	30-130	5.3	30	
1-Methylnaphthalene	0.103	0.00201	"	0.164	<0.00109	62.8	30-130	0.9	30	
2-Methylnaphthalene	0.103	0.00201	"	0.164	<0.00194	62.8	30-130	0	30	
Acenaphthene	0.114	0.00067	"	0.164	<0.000304	69.5	30-130	1.7	30	
Benzo(k)fluoranthene	0.0755	0.00067	"	0.164	<0.000437	46	30-130	12.1	30	
Anthracene	0.119	0.00067	"	0.164	<0.000334	72.5	30-130	6	30	
Benzo(b)fluoranthene	0.0797	0.00067	"	0.164	<0.000585	48.5	30-130	16.1	30	
Chrysene	0.115	0.00067	"	0.164	<0.000624	70.1	30-130	0	30	
Dibenz(a,h)anthracene	0.132	0.00067	"	0.164	<0.000614	80.4	30-130	0.7	30	
Fluoranthene	0.119	0.00067	"	0.164	<0.000394	72.5	30-130	7.2	30	
Fluorene	0.122	0.00067	"	0.164	0.00079	73.9	30-130	2.4	30	
Indeno(1,2,3-cd)pyrene	0.101	0.00067	"	0.164	<0.000627	61.5	30-130	10.6	30	
Surrogate: 2-Fluorobiphenyl	55.6		"	0.329	166	55.6	33-115			
Surrogate: 4-Terphenyl-d14	56.5		"	0.329	179	56.5	33-122			
Surrogate: Nitrobenzene-d5	47.4		"	0.329	162	47.4	29-110			

**MS (L 96424-MS-L691488)**

**Source: Y306881-05**

Prepared: 07/07/2023 Analyzed: 07/10/2023

Pyrene	0.128	0.00067	mg/Kg	0.164	<0.000643	78	30-130			
Indeno(1,2,3-cd)pyrene	0.0908	0.00067	"	0.164	<0.000627	55.3	30-130			
Anthracene	0.112	0.00067	"	0.164	<0.000334	68.2	30-130			
Benzo(a)anthracene	0.11	0.00067	"	0.164	<0.000493	67	30-130			
Benzo(a)pyrene	0.117	0.00067	"	0.164	<0.000468	71.3	30-130			
Benzo(b)fluoranthene	0.0678	0.00067	"	0.164	<0.000585	41.3	30-130			
Benzo(k)fluoranthene	0.0853	0.00067	"	0.164	<0.000437	52	30-130			
Chrysene	0.115	0.00067	"	0.164	<0.000624	70.1	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L691488 - 3550B**

**MS (L 96424-MS-L691488)**

**Source: Y306881-05**

Prepared: 07/07/2023 Analyzed: 07/10/2023

Dibenz(a,h)anthracene	0.131	0.00067	mg/Kg	0.164	<0.000614	79.8	30-130			
Acenaphthene	0.112	0.00067	"	0.164	<0.000304	68.2	30-130			
2-Methylnaphthalene	0.103	0.00201	"	0.164	<0.00194	62.8	30-130			
1-Methylnaphthalene	0.104	0.00201	"	0.164	<0.00109	63.4	30-130			
Fluoranthene	0.128	0.00067	"	0.164	<0.000394	78	30-130			
Fluorene	0.125	0.00067	"	0.164	0.00079	75.7	30-130			
Surrogate: Nitrobenzene-d5	47.2		"	0.328	162	47.2	29-110			
Surrogate: 4-Terphenyl-d14	62.5		"	0.328	179	62.5	33-122			
Surrogate: 2-Fluorobiphenyl	52.1		"	0.328	166	52.1	33-115			

**LCS (LCS-L691488)**

Prepared: 07/07/2023 Analyzed: 07/10/2023

1-Methylnaphthalene	0.0852	0.00201	mg/Kg	0.167		51	30-130			
Fluorene	0.105	0.00067	"	0.167		62.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0985	0.00067	"	0.167		58.9	30-130			
Pyrene	0.126	0.00067	"	0.167		75.4	30-130			
Dibenz(a,h)anthracene	0.138	0.00067	"	0.167		82.6	30-130			
2-Methylnaphthalene	0.0899	0.00201	"	0.167		53.8	30-130			
Benzo(k)fluoranthene	0.0829	0.00067	"	0.167		49.6	30-130			
Benzo(b)fluoranthene	0.0689	0.00067	"	0.167		41.2	30-130			
Benzo(a)pyrene	0.116	0.00067	"	0.167		69.4	30-130			
Benzo(a)anthracene	0.102	0.00067	"	0.167		61	30-130			
Anthracene	0.122	0.00067	"	0.167		73	30-130			
Acenaphthene	0.1	0.00067	"	0.167		59.8	30-130			
Fluoranthene	0.125	0.00067	"	0.167		74.8	30-130			
Chrysene	0.112	0.00067	"	0.167		67	30-130			
Surrogate: Nitrobenzene-d5	46.8		"	0.333		46.8	29-110			
Surrogate: 4-Terphenyl-d14	66.6		"	0.333		66.6	33-122			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Pluss G #25-7

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L691488 - 3550B**

**LCS (LCS-L691488)**


Prepared: 07/07/2023 Analyzed: 07/10/2023

Surrogate: 2-Fluorobiphenyl 46.8 mg/Kg 0.333 46.8 33-115

**LRB (LRB-L691488)**

Prepared: 07/07/2023 Analyzed: 07/10/2023

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	46.2		"	0.333	46.2		29-110			
Surrogate: 4-Terphenyl-d14	70.8		"	0.333	70.8		33-122			
Surrogate: 2-Fluorobiphenyl	51		"	0.333	51		33-115			

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Pluss G #25-7

## Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J Estimated Value. Analyte below reported quantitation limit.
- 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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