

ORIGINS LABORATORY

Eagle Environmental Consulting, LLC

Alfred Garraffa

8000 W 44th Ave

Wheat Ridge CO 80033

December 30, 2024

Project Name - Noble - WPF III #A18-13A Project Number - [none]

Attached are your analytical results for Noble - WPF III #A18-13A received by Origins Laboratory November 26, 2024. This project is associated with Origins project number E4K0865-01.

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
303.433.1322
projectmanager@originslab.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

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-SS-01@6-7'	E4K0865-01	Soil	November 26, 2024 10:00	11/26/2024 15:19
HA-SS-01@7-8'	E4K0865-02	Soil	November 26, 2024 10:10	11/26/2024 15:19
HA-SS-02@6-7'	E4K0865-03	Soil	November 26, 2024 11:25	11/26/2024 15:19
HA-SS-02@7-8'	E4K0865-04	Soil	November 26, 2024 11:30	11/26/2024 15:19
HA-SS-03@6-7'	E4K0865-05	Soil	November 26, 2024 10:05	11/26/2024 15:19
HA-SS-03@7-8'	E4K0865-06	Soil	November 26, 2024 10:15	11/26/2024 15:19
HA-SS-04@6-7'	E4K0865-07	Soil	November 26, 2024 11:25	11/26/2024 15:19
HA-SS-04@7-8'	E4K0865-08	Soil	November 26, 2024 11:35	11/26/2024 15:19
HA-SS-05@6-7'	E4K0865-09	Soil	November 26, 2024 11:55	11/26/2024 15:19
HA-SS-05@7-8'	E4K0865-10	Soil	November 26, 2024 12:05	11/26/2024 15:19

Origins Laboratory

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 Wheat Ridge CO 80033

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

ORIGINS
 LABORATORY

640865

Page 1 of 1

Client: Eagle Environmental Consulting
 Project Manager: Alfred Garraffa
 Key: W=Water

Address: 8000 W 44th Ave
 Project Name: WPF III #A18-13A
 W=Water

Telephone Number: 303-453-0000
 Project Number: [none]
 GVI-Groundwater

Email Address: ameli@originslab.com
 Invoice/Billing Info: WPF III #A18-13A
 SW-Surface Water

Collected By: SJ/S
 WPF-Hotspot Water

Analysis: MS-Soil
 L-Liquid

MS-Soil SO₂-Sulfide [O=O] A-Air [Gases] U=Urine [HCl=Hydrochloric] HNO₃=Nitric [H₂SO₄=Sulfuric] [MgOH=Magnesium Hydroxide]

#	Sample ID	Date	Time	Sampled	# of Containers	Matrix	Preservative	Analysis		Comments
1	HA-SS-0101-2	11/16/14	1100	3	S	UWP	X			INDS Metad
2	HA-SS-0101-2	11/16/14	1100	3	S	UWP	X			
3	HA-SS-0101-2	11/16/14	1100	3	S	UWP	X			
4	HA-SS-0101-2	11/16/14	1100	3	S	UWP	X			
5	HA-SS-0101-2	11/16/14	1100	3	S	UWP	X			
6	HA-SS-0101-2	11/16/14	1100	3	S	UWP	X			
7	HA-SS-0101-2	11/16/14	1100	3	S	UWP	X			
8	HA-SS-0101-2	11/16/14	1100	3	S	UWP	X			
9	HA-SS-0101-2	11/16/14	1100	3	S	UWP	X			
10	HA-SS-0101-2	11/16/14	1100	3	S	UWP	X			

Relinquished By: [Signature] Date: 11/16/14 Time: 159
 Received By: [Signature] Date: 11/20/14 Time: 519
 Turnaround Time: 48 Hr 72 Hr SAME DAY 24 Hr

Origins Laboratory

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8000 W 44th Ave
Wheat Ridge CO 80033

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: E4K0865

Client: Eagle
Client Project ID: WPF III

Checklist Completed by: EHOL KMR
Date/time completed: 11/20/24

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

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
Cooler Number/Temperature: 1159 °C / _____ °C / _____ °C (Describe) _____ °C
Thermometer ID: 1007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{(1)?}	<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 ^{(1)?}	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ^{(1)?}	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	<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 ^{(1)?} (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH > 10 for samples preserved with Na ₂ CO ₃ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

12/2/24
Date/Time Reviewed

Origins Laboratory
[Signature]

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

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

HA-SS-01@6-7'
11/26/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4K0865-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.48		0.0991	mg/L	1	B4L0211	12/02/2024	12/03/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0201	12/02/2024	12/06/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.6 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0233	12/02/2024	12/02/2024	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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Jordan A. Bynon, Project Manager



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Alfred Garraffa
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 Project: Noble - WPF III #A18-13A

HA-SS-01@6-7'

11/26/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			B4L02 33	12/02/2024	12/02/2024	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	15.3	0.499	meq/L	10	[CALC]		12/02/2024	12/05/2024	
Magnesium	6.13	0.823	"	"	"	"	"	"	
Sodium	20.2	0.435	"	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4L0547		12/05/2024	12/06/2024	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

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 Wheat Ridge CO 80033

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-01@6-7'
 11/26/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-01 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.020	mg/kg	1	B4L0547	12/05/2024	12/06/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.7%		60-130			"	"	"	
Surrogate: Anthracene-d10	97.7%		60-130			"	"	"	
Surrogate: Pyrene-d10	101%		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103%		60-130			"	"	"	

pH in Soil by 9045D

pH	7.98			pH Units	1	B4L0225	12/02/2024	12/04/2024	
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SAR by 20B Saturated Paste

SAR	6.17		0.0100	SAR	1	B4L0218	12/02/2024	12/05/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.17		0.00500	mmhos/cm	1	B4L0225	12/02/2024	12/04/2024	
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Table 915 metals by EPA 6020B

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8000 W 44th Ave
Wheat Ridge CO 80033

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

HA-SS-01@6-7'
11/26/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4K0865-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	12.5		0.277	mg/kg	10	B4K2737	11/27/2024	12/05/2024	
Barium	249		9.54	"	"	"	"	"	"
Cadmium	0.218		0.0954	"	"	"	"	"	"
Copper	13.1		9.54	"	"	"	"	"	"
Lead	11.4		0.954	"	"	"	"	"	"
Nickel	14.9		0.954	"	"	"	"	"	"
Selenium	ND		0.248	"	"	"	"	"	"
Silver	ND		0.0954	"	"	"	"	"	"
Zinc	54.8		35.3	"	"	"	"	"	"

Total Metals by SW7199

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHL0332	12/06/2024	12/11/2024	
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

HA-SS-01@7-8'
11/26/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4K0865-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.19		0.0992	mg/L	1	B4L0211	12/02/2024	12/03/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0201	12/02/2024	12/07/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.6 %		50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0233	12/02/2024	12/02/2024	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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Jordan A. Bynon, Project Manager



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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-01@7-8'
 11/26/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			B4L02 33	12/02/2024	12/02/2024	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.69	0.499	meq/L	10	[CALC]		12/02/2024	12/05/2024	
Magnesium	2.44	0.823	"	"	"		"	"	
Sodium	15.9	0.435	"	"	"		"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4L0547		12/05/2024	12/07/2024	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

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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-01@7-8'
 11/26/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-02 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.020	mg/kg	1	B4L0547	12/05/2024	12/07/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.20			pH Units	1	B4L0225	12/02/2024	12/04/2024	
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SAR by 20B Saturated Paste

SAR	8.41		0.0100	SAR	1	B4L0218	12/02/2024	12/05/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.71		0.00500	mmhos/cm	1	B4L0225	12/02/2024	12/04/2024	
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Table 915 metals by EPA 6020B

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

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

HA-SS-01@7-8'
11/26/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4K0865-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.05		0.245	mg/kg	10	B4K2737	11/27/2024	12/05/2024	
Barium	609		8.44	"	"	"	"	"	"
Cadmium	0.194		0.0844	"	"	"	"	"	"
Copper	8.86		8.44	"	"	"	"	"	"
Lead	11.1		0.844	"	"	"	"	"	"
Nickel	9.01		0.844	"	"	"	"	"	"
Selenium	0.361		0.220	"	"	"	"	"	"
Silver	ND		0.0844	"	"	"	"	"	"
Zinc	53.7		31.2	"	"	"	"	"	"

Total Metals by SW7199

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHL0332	12/06/2024	12/11/2024	
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
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Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

HA-SS-02@6-7'

11/26/2024 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4K0865-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.588	0.101	mg/L	1	B4L0211	12/02/2024	12/03/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4L0201	12/02/2024	12/07/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.6 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4L0233	12/02/2024	12/02/2024	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



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Jordan A. Bynon, Project Manager



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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-02@6-7'

11/26/2024 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			B4L02 33	12/02/2024	12/02/2024	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	23.1	0.499	meq/L	10	[CALC]		12/02/2024	12/05/2024	
Magnesium	15.8	0.823	"	"	"	"	"	"	
Sodium	23.3	0.435	"	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4L0547		12/05/2024	12/07/2024	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

Origins Laboratory

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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-02@6-7'
 11/26/2024 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-03 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND	0.020	mg/kg	1	B4L0547	12/05/2024	12/07/2024	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %	60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	99.6 %	60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	102 %	60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"	"	"	"

pH in Soil by 9045D

pH	7.94	pH Units	1	B4L0225	12/02/2024	12/04/2024
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SAR by 20B Saturated Paste

SAR	5.28	0.0100	SAR	1	B4L0218	12/02/2024	12/05/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.59	0.00500	mmhos/cm	1	B4L0225	12/02/2024	12/04/2024
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Table 915 metals by EPA 6020B

Origins Laboratory

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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-02@6-7'

11/26/2024 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.83		0.271	mg/kg	10	B4K2737	11/27/2024	12/05/2024	
Barium	74.5		9.35	"	"	"	"	"	
Cadmium	ND		0.0935	"	"	"	"	"	
Copper	ND		9.35	"	"	"	"	"	
Lead	8.93		0.935	"	"	"	"	"	
Nickel	6.94		0.935	"	"	"	"	"	
Selenium	ND		0.243	"	"	"	"	"	
Silver	ND		0.0935	"	"	"	"	"	
Zinc	ND		34.6	"	"	"	"	"	

Total Metals by SW7199

Chromium, Hexavalent	0.51	0.20	0.20	mg/kg	1	BHL0332	12/06/2024	12/11/2024	
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Origins Laboratory

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ORIGINS LABORATORY

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

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

HA-SS-02@7-8'
11/26/2024 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4K0865-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.574		0.100	mg/L	1	B4L0211	12/02/2024	12/03/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0201	12/02/2024	12/07/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.1 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0233	12/02/2024	12/02/2024	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



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Jordan A. Bynon, Project Manager



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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-02@7-8'
 11/26/2024 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			B4L02 33	12/02/2024	12/02/2024	
Surrogate: Toluene-d8	103 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	22.7	0.499	meq/L	10	[CALC]		12/02/2024	12/05/2024	
Magnesium	14.2	0.823	"	"	"	"	"	"	
Sodium	19.7	0.435	"	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4L0547		12/05/2024	12/07/2024	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

Origins Laboratory

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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-02@7-8'
 11/26/2024 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-04 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.020	mg/kg	1	B4L0547	12/05/2024	12/07/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.2 %		60-130			"	"	"	
Surrogate: Anthracene-d10	105 %		60-130			"	"	"	
Surrogate: Pyrene-d10	104 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.94			pH Units	1	B4L0225	12/02/2024	12/04/2024	
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SAR by 20B Saturated Paste

SAR	4.59		0.0100	SAR	1	B4L0218	12/02/2024	12/05/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.24		0.00500	mmhos/cm	1	B4L0225	12/02/2024	12/04/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory

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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-02@7-8'
 11/26/2024 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4K0865-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.74		0.265	mg/kg	10	B4K2737	11/27/2024	12/05/2024	
Barium	46.0		9.14	"	"	"	"	"	
Cadmium	0.102		0.0914	"	"	"	"	"	
Copper	ND		9.14	"	"	"	"	"	
Lead	5.96		0.914	"	"	"	"	"	
Nickel	7.50		0.914	"	"	"	"	"	
Selenium	ND		0.238	"	"	"	"	"	
Silver	ND		0.0914	"	"	"	"	"	
Zinc	ND		33.8	"	"	"	"	"	

Total Metals by SW7199

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHL0332	12/06/2024	12/11/2024	
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Origins Laboratory

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ORIGINS LABORATORY

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

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

HA-SS-03@6-7'

11/26/2024 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4K0865-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.865	0.101	mg/L	1	B4L0211	12/02/2024	12/03/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4L0201	12/02/2024	12/07/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.2 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4L0233	12/02/2024	12/02/2024	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



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Jordan A. Bynon, Project Manager



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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-03@6-7'

11/26/2024 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			B4L02 33	12/02/2024	12/02/2024	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	18.5	0.499	meq/L	10	[CALC]		12/02/2024	12/05/2024	
Magnesium	15.1	0.823	"	"	"		"	"	
Sodium	23.0	0.435	"	"	"		"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4L0547		12/05/2024	12/07/2024	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

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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-03@6-7'
 11/26/2024 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-05 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.020	mg/kg	1	B4L0547	12/05/2024	12/07/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	98.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	103 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.98			pH Units	1	B4L0225	12/02/2024	12/04/2024	
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SAR by 20B Saturated Paste

SAR	5.62		0.0100	SAR	1	B4L0218	12/02/2024	12/05/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.41		0.00500	mmhos/cm	1	B4L0225	12/02/2024	12/04/2024	
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Table 915 metals by EPA 6020B

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

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

HA-SS-03@6-7'

11/26/2024 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4K0865-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	7.20		0.257	mg/kg	10	B4K2737	11/27/2024	12/05/2024	
Barium	1300		8.84	"	"	"	"	"	
Cadmium	0.593		0.0884	"	"	"	"	"	
Copper	ND		8.84	"	"	"	"	"	
Lead	72.8		0.884	"	"	"	"	"	
Nickel	9.54		0.884	"	"	"	"	"	
Selenium	ND		0.230	"	"	"	"	"	
Silver	ND		0.0884	"	"	"	"	"	
Zinc	34.9		32.7	"	"	"	"	"	

Total Metals by SW7199

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHL0332	12/06/2024	12/11/2024	
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Origins Laboratory



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ORIGINS LABORATORY

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

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

HA-SS-03@7-8'
11/26/2024 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4K0865-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.454		0.100	mg/L	1	B4L0211	12/02/2024	12/03/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0201	12/02/2024	12/07/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.8 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0233	12/02/2024	12/02/2024	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



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Jordan A. Bynon, Project Manager



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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-03@7-8'
 11/26/2024 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			B4L02 33	12/02/2024	12/02/2024	
Surrogate: Toluene-d8	104 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	11.1	0.499	meq/L	10	[CALC]		12/02/2024	12/05/2024	
Magnesium	7.70	0.823	"	"	"	"	"	"	
Sodium	14.5	0.435	"	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4L0547		12/05/2024	12/07/2024	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

Origins Laboratory

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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-03@7-8'
 11/26/2024 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-06 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.020	mg/kg	1	B4L0547	12/05/2024	12/07/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	106 %		60-130			"	"	"	
Surrogate: Pyrene-d10	103 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.10			pH Units	1	B4L0225	12/02/2024	12/04/2024	
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SAR by 20B Saturated Paste

SAR	4.74		0.0100	SAR	1	B4L0218	12/02/2024	12/05/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.79		0.00500	mmhos/cm	1	B4L0225	12/02/2024	12/04/2024	
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Table 915 metals by EPA 6020B

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-03@7-8'
 11/26/2024 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4K0865-06 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.17		0.249	mg/kg	10	B4K2737	11/27/2024	12/05/2024	
Barium	258		8.58	"	"	"	"	"	"
Cadmium	0.122		0.0858	"	"	"	"	"	"
Copper	ND		8.58	"	"	"	"	"	"
Lead	5.57		0.858	"	"	"	"	"	"
Nickel	6.43		0.858	"	"	"	"	"	"
Selenium	ND		0.223	"	"	"	"	"	"
Silver	ND		0.0858	"	"	"	"	"	"
Zinc	ND		31.8	"	"	"	"	"	"

Total Metals by SW7199

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHL0332	12/06/2024	12/11/2024	
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ORIGINS LABORATORY

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

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

HA-SS-04@6-7'

11/26/2024 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4K0865-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.725		0.0996	mg/L	1	B4L0211	12/02/2024	12/03/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0201	12/02/2024	12/07/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.0 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0233	12/02/2024	12/02/2024	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



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Jordan A. Bynon, Project Manager



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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-04@6-7'
 11/26/2024 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			B4L02 33	12/02/2024	12/02/2024	
Surrogate: Toluene-d8	105 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	17.3	0.499	meq/L	10	[CALC]		12/02/2024	12/05/2024	
Magnesium	11.4	0.823	"	"	"	"	"	"	
Sodium	22.3	0.435	"	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4L0547		12/05/2024	12/07/2024	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

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Alfred Garraffa
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 Project: Noble - WPF III #A18-13A

HA-SS-04@6-7'
 11/26/2024 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-07 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.020	mg/kg	1	B4L0547	12/05/2024	12/07/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.00			pH Units	1	B4L0225	12/02/2024	12/04/2024	
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SAR by 20B Saturated Paste

SAR	5.87		0.0100	SAR	1	B4L0218	12/02/2024	12/05/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.17		0.00500	mmhos/cm	1	B4L0225	12/02/2024	12/04/2024	
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Table 915 metals by EPA 6020B

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Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-04@6-7'
 11/26/2024 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-07 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.73		0.261	mg/kg	10	B4K2737	11/27/2024	12/05/2024	
Barium	99.7		8.98	"	"	"	"	"	
Cadmium	0.124		0.0898	"	"	"	"	"	
Copper	ND		8.98	"	"	"	"	"	
Lead	6.31		0.898	"	"	"	"	"	
Nickel	7.06		0.898	"	"	"	"	"	
Selenium	ND		0.234	"	"	"	"	"	
Silver	ND		0.0898	"	"	"	"	"	
Zinc	ND		33.2	"	"	"	"	"	

Total Metals by SW7199

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHL0332	12/06/2024	12/11/2024	
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

HA-SS-04@7-8'

11/26/2024 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4K0865-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.503		0.100	mg/L	1	B4L0211	12/02/2024	12/03/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0201	12/02/2024	12/07/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.1 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0233	12/02/2024	12/02/2024	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



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Jordan A. Bynon, Project Manager



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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-04@7-8'

11/26/2024 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			B4L02 33	12/02/2024	12/02/2024	
Surrogate: Toluene-d8	105 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.63	0.499	meq/L	10	[CALC]		12/02/2024	12/05/2024	
Magnesium	3.47	0.823	"	"	"	"	"	"	
Sodium	14.1	0.435	"	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4L0547		12/05/2024	12/07/2024	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

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Alfred Garraffa
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HA-SS-04@7-8'
 11/26/2024 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-08 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND	0.020	mg/kg	1	B4L0547	12/05/2024	12/07/2024	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %	60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	92.9 %	60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	104 %	60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.25	pH Units	1	B4L0225	12/02/2024	12/04/2024
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SAR by 20B Saturated Paste

SAR	7.01	0.0100	SAR	1	B4L0218	12/02/2024	12/05/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.17	0.00500	mmhos/cm	1	B4L0225	12/02/2024	12/04/2024
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Table 915 metals by EPA 6020B

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-04@7-8'

11/26/2024 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-08 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.59		0.282	mg/kg	10	B4K2737	11/27/2024	12/05/2024	
Barium	44.2		9.71	"	"	"	"	"	
Cadmium	ND		0.0971	"	"	"	"	"	
Copper	ND		9.71	"	"	"	"	"	
Lead	5.81		0.971	"	"	"	"	"	
Nickel	7.52		0.971	"	"	"	"	"	
Selenium	ND		0.252	"	"	"	"	"	
Silver	ND		0.0971	"	"	"	"	"	
Zinc	ND		35.9	"	"	"	"	"	

Total Metals by SW7199

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHL0332	12/06/2024	12/11/2024	
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

HA-SS-05@6-7'

11/26/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4K0865-09 (Soil)

Boron (DTPA Sorbitol)

Boron	1.10		0.0988	mg/L	1	B4L0211	12/02/2024	12/03/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0201	12/02/2024	12/07/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.6 %		50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0233	12/02/2024	12/03/2024	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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Jordan A. Bynon, Project Manager

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

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

HA-SS-05@6-7'

11/26/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4K0865-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			B4L02 33	12/02/2024	12/03/2024	
Surrogate: Toluene-d8	104 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	20.3	0.499	meq/L	10	[CALC]		12/02/2024	12/05/2024	
Magnesium	17.6	0.823	"	"	"	"	"	"	
Sodium	37.1	0.435	"	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4L0547		12/05/2024	12/07/2024	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

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Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-05@6-7'
 11/26/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-09 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND	0.020	mg/kg	1	B4L0547	12/05/2024	12/07/2024	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	91.3 %	60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	105 %	60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"	"	"	"

pH in Soil by 9045D

pH	7.99	pH Units	1	B4L0225	12/02/2024	12/04/2024
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SAR by 20B Saturated Paste

SAR	8.52	0.0100	SAR	1	B4L0218	12/02/2024	12/05/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.81	0.00500	mmhos/cm	1	B4L0225	12/02/2024	12/04/2024
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Table 915 metals by EPA 6020B

Origins Laboratory

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ORIGINS LABORATORY

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

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

HA-SS-05@6-7'

11/26/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4K0865-09 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.83		0.257	mg/kg	10	B4K2737	11/27/2024	12/05/2024	
Barium	90.9		8.86	"	"	"	"	"	
Cadmium	0.164		0.0886	"	"	"	"	"	
Copper	ND		8.86	"	"	"	"	"	
Lead	7.07		0.886	"	"	"	"	"	
Nickel	7.98		0.886	"	"	"	"	"	
Selenium	ND		0.230	"	"	"	"	"	
Silver	ND		0.0886	"	"	"	"	"	
Zinc	34.9		32.8	"	"	"	"	"	

Total Metals by SW7199

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHL0332	12/06/2024	12/11/2024	
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

HA-SS-05@7-8'

11/26/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4K0865-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.807		0.0996	mg/L	1	B4L0211	12/02/2024	12/03/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0201	12/02/2024	12/07/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.9 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0233	12/02/2024	12/03/2024	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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Jordan A. Bynon, Project Manager



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Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-05@7-8'

11/26/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-10 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			B4L02 33	12/02/2024	12/03/2024	
Surrogate: Toluene-d8	104 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	17.5	0.499	meq/L	10	[CALC]		12/02/2024	12/05/2024	
Magnesium	14.6	0.823	"	"	"	"	"	"	
Sodium	23.3	0.435	"	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4L0547		12/05/2024	12/07/2024	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

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Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

HA-SS-05@7-8'
 11/26/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0865-10 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.020	mg/kg	1	B4L0547	12/05/2024	12/07/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	99.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	105 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.96			pH Units	1	B4L0225	12/02/2024	12/04/2024	
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SAR by 20B Saturated Paste

SAR	5.80		0.0100	SAR	1	B4L0218	12/02/2024	12/05/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.37		0.00500	mmhos/cm	1	B4L0225	12/02/2024	12/04/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory

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Eagle Environmental Consulting, LLC
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Wheat Ridge CO 80033

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

HA-SS-05@7-8'

11/26/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4K0865-10 (Soil)

Table 915 metals by EPA 6020B

Arsenic	6.44		0.285	mg/kg	10	B4K2737	11/27/2024	12/05/2024	
Barium	136		9.81	"	"	"	"	"	
Cadmium	0.145		0.0981	"	"	"	"	"	
Copper	ND		9.81	"	"	"	"	"	
Lead	8.36		0.981	"	"	"	"	"	
Nickel	9.57		0.981	"	"	"	"	"	
Selenium	ND		0.255	"	"	"	"	"	
Silver	ND		0.0981	"	"	"	"	"	
Zinc	ND		36.3	"	"	"	"	"	

Total Metals by SW7199

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHL0332	12/06/2024	12/11/2024	
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Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L0201 - EPA 3550B										
Blank (B4L0201-BLK1)										
					Prepared: 12/02/2024 Analyzed: 12/06/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		83.2	50-150			

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 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L0201 - EPA 3550B										
LCS (B4L0201-BS1)										
					Prepared: 12/02/2024 Analyzed: 12/06/2024					
Diesel (C10-C28)	889	50.0	mg/kg	1000		88.9	70-130			
Residual Range Organics (C28-C40)	926	200	"	1000		92.6	70-130			
Surrogate: o-Terphenyl	45		"	49.8		89.9	50-150			

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Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L0201 - EPA 3550B										
Matrix Spike (B4L0201-MS1)										
			Source: E4K0858-01			Prepared: 12/02/2024 Analyzed: 12/06/2024				
Diesel (C10-C28)	909	50.0	mg/kg	1000	ND	90.9	70-130			
Residual Range Organics (C28-C40)	946	200	"	1000	ND	94.6	70-130			
Surrogate: o-Terphenyl	43		"	49.8		85.6	50-150			

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 Project Number: [none]
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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L0201 - EPA 3550B										
Matrix Spike Dup (B4L0201-MSD1)			Source: E4K0858-01			Prepared: 12/02/2024 Analyzed: 12/06/2024				
Diesel (C10-C28)	886	50.0	mg/kg	1000	ND	88.6	70-130	2.55	35	
Residual Range Organics (C28-C40)	923	200	"	1000	ND	92.3	70-130	2.47	35	
Surrogate: o-Terphenyl	43		"	49.8		85.6	50-150			

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Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L0233 - EPA 5030 (soil)

Blank (B4L0233-BLK1)

Prepared: 12/02/2024 Analyzed: 12/02/2024

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	0.12		"	0.125		97.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.5	70-130			

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Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L0233 - EPA 5030 (soil)

LCS (B4L0233-BS1)

Prepared: 12/02/2024 Analyzed: 12/02/2024

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Benzene	0.0933	0.00200	"	0.100		93.3	70-130			
Ethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Naphthalene	0.100	0.00380	"	0.100		100	70-130			
Toluene	0.0991	0.00200	"	0.100		99.1	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.220	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 Wheat Ridge CO 80033

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L0233 - EPA 5030 (soil)

Matrix Spike (B4L0233-MS1)

Source: E4K0864-01

Prepared: 12/02/2024 Analyzed: 12/02/2024

1,2,4-Trimethylbenzene	0.0988	0.00200	mg/kg	0.100	ND	98.8	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130			
Benzene	0.0898	0.00200	"	0.100	ND	89.8	70-130			
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130			
Toluene	0.0928	0.00200	"	0.100	ND	92.8	70-130			
o-Xylene	0.0999	0.00200	"	0.100	ND	99.9	70-130			
m,p-Xylene	0.204	0.00400	"	0.200	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L0233 - EPA 5030 (soil)

Matrix Spike Dup (B4L0233-MSD1)

Source: E4K0864-01

Prepared: 12/02/2024 Analyzed: 12/02/2024

1,2,4-Trimethylbenzene	0.0956	0.00200	mg/kg	0.100	ND	95.6	70-130	3.29	20	
1,3,5-Trimethylbenzene	0.0958	0.00200	"	0.100	ND	95.8	70-130	4.41	20	
Benzene	0.0883	0.00200	"	0.100	ND	88.3	70-130	1.71	20	
Ethylbenzene	0.0981	0.00200	"	0.100	ND	98.1	70-130	3.78	20	
Naphthalene	0.106	0.00380	"	0.100	ND	106	70-130	4.95	20	
Toluene	0.0892	0.00200	"	0.100	ND	89.2	70-130	3.91	20	
o-Xylene	0.0968	0.00200	"	0.100	ND	96.8	70-130	3.07	20	
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.5	70-130	3.60	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory

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Jordan A. Bynon, Project Manager



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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K2737 - EPA 3050B

Blank (B4K2737-BLK1)

Prepared: 11/27/2024 Analyzed: 12/05/2024

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 (B4K2737-BS1)

Prepared: 11/27/2024 Analyzed: 12/05/2024

Arsenic	4.96	0.290	mg/kg	5.00		99.2	80-120			
Barium	454	10.0	"	500		90.7	80-120			
Cadmium	4.81	0.100	"	5.00		96.3	80-120			
Copper	51.0	10.0	"	50.0		102	80-120			
Lead	4.85	1.00	"	5.00		97.0	80-120			
Nickel	5.04	1.00	"	5.00		101	80-120			
Selenium	4.42	0.260	"	5.00		88.5	80-120			
Silver	4.97	0.100	"	5.00		99.4	80-120			
Zinc	51.2	37.0	"	50.0		102	80-120			

Matrix Spike (B4K2737-MS1)

Source: E4K0816-01

Prepared: 11/27/2024 Analyzed: 12/05/2024

Origins Laboratory

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Jordan A. Bynon, Project Manager



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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K2737 - EPA 3050B

Matrix Spike (B4K2737-MS1)

Source: E4K0816-01

Prepared: 11/27/2024 Analyzed: 12/05/2024

Arsenic	7.13	0.287	mg/kg	4.95	2.81	87.4	75-125			
Barium	525	9.90	"	495	77.9	90.3	75-125			
Cadmium	4.75	0.0990	"	4.95	0.0747	94.6	75-125			
Copper	57.9	9.90	"	49.5	8.21	100	75-125			
Lead	10.5	0.990	"	4.95	7.23	67.0	75-125			QM-07
Nickel	13.4	0.990	"	4.95	9.84	71.8	75-125			QM-07
Selenium	4.58	0.257	"	4.95	0.137	89.8	75-125			
Silver	4.99	0.0990	"	4.95	0.0339	100	75-125			
Zinc	82.7	36.6	"	49.5	39.5	87.5	75-125			

Matrix Spike Dup (B4K2737-MSD1)

Source: E4K0816-01

Prepared: 11/27/2024 Analyzed: 12/05/2024

Arsenic	7.24	0.262	mg/kg	4.52	2.81	97.8	75-125	1.45	20	
Barium	535	9.05	"	452	77.9	101	75-125	2.02	20	
Cadmium	4.63	0.0905	"	4.52	0.0747	101	75-125	2.70	20	
Copper	58.0	9.05	"	45.2	8.21	110	75-125	0.184	20	
Lead	11.0	0.905	"	4.52	7.23	83.9	75-125	4.47	20	
Nickel	13.8	0.905	"	4.52	9.84	87.2	75-125	2.91	20	
Selenium	4.26	0.235	"	4.52	0.137	91.2	75-125	7.23	20	
Silver	4.82	0.0905	"	4.52	0.0339	106	75-125	3.35	20	
Zinc	83.6	33.5	"	45.2	39.5	97.6	75-125	1.03	20	

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L0547 - EPA 3580

Blank (B4L0547-BLK1)

Prepared: 12/05/2024 Analyzed: 12/06/2024

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		101	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

LCS (B4L0547-BS1)

Prepared: 12/05/2024 Analyzed: 12/06/2024

1-Methylnaphthalene	0.191	0.002	mg/kg	0.200		95.6	70-130			
2-Methylnaphthalene	0.187	0.002	"	0.200		93.7	70-130			
Acenaphthene	0.187	0.020	"	0.200		93.5	70-130			
Anthracene	0.183	0.020	"	0.200		91.6	70-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L0547 - EPA 3580

LCS (B4L0547-BS1)

Prepared: 12/05/2024 Analyzed: 12/06/2024

Benzo (a) anthracene	0.180	0.005	mg/kg	0.200		90.2	70-130			
Benzo (a) pyrene	0.189	0.020	"	0.200		94.3	70-130			
Benzo (b) fluoranthene	0.199	0.020	"	0.200		99.3	70-130			
Benzo (g,h,i) perylene	0.194	0.020	"	0.200		96.8	70-130			
Benzo (k) fluoranthene	0.217	0.020	"	0.200		109	70-130			
Chrysene	0.201	0.020	"	0.200		101	70-130			
Dibenz (a,h) anthracene	0.212	0.020	"	0.200		106	70-130			
Fluoranthene	0.182	0.020	"	0.200		91.0	70-130			
Fluorene	0.195	0.020	"	0.200		97.5	70-130			
Indeno (1,2,3-cd) pyrene	0.212	0.020	"	0.200		106	70-130			
Naphthalene	0.189	0.002	"	0.200		94.4	70-130			
Phenanthrene	0.186	0.020	"	0.200		93.0	70-130			
Pyrene	0.190	0.020	"	0.200		95.0	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B4L0547-MS1)

Source: E4K0865-01

Prepared: 12/05/2024 Analyzed: 12/06/2024

1-Methylnaphthalene	0.205	0.002	mg/kg	0.200	0.0006	102	70-130			
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	98.1	70-130			
Acenaphthene	0.205	0.020	"	0.200	0.0005	102	70-130			
Anthracene	0.186	0.020	"	0.200	0.0006	92.8	70-130			
Benzo (a) anthracene	0.187	0.005	"	0.200	0.001	93.0	70-130			
Benzo (a) pyrene	0.221	0.020	"	0.200	ND	110	70-130			
Benzo (b) fluoranthene	0.206	0.020	"	0.200	ND	103	70-130			
Benzo (g,h,i) perylene	0.209	0.020	"	0.200	0.0006	104	70-130			

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Jordan A. Bynon, Project Manager



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Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L0547 - EPA 3580

Matrix Spike (B4L0547-MS1)

Source: E4K0865-01

Prepared: 12/05/2024 Analyzed: 12/06/2024

Benzo (k) fluoranthene	0.222	0.020	mg/kg	0.200	0.0004	111	70-130			
Chrysene	0.212	0.020	"	0.200	ND	106	70-130			
Dibenz (a,h) anthracene	0.229	0.020	"	0.200	ND	114	70-130			
Fluoranthene	0.197	0.020	"	0.200	0.0003	98.2	70-130			
Fluorene	0.208	0.020	"	0.200	ND	104	70-130			
Indeno (1,2,3-cd) pyrene	0.218	0.020	"	0.200	ND	109	70-130			
Naphthalene	0.199	0.002	"	0.200	ND	99.6	70-130			
Phenanthrene	0.199	0.020	"	0.200	ND	99.6	70-130			
Pyrene	0.200	0.020	"	0.200	0.001	99.5	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike Dup (B4L0547-MSD1)

Source: E4K0865-01

Prepared: 12/05/2024 Analyzed: 12/06/2024

1-Methylnaphthalene	0.209	0.002	mg/kg	0.200	0.0006	104	70-130	2.18	20	
2-Methylnaphthalene	0.198	0.002	"	0.200	ND	99.1	70-130	1.05	20	
Acenaphthene	0.198	0.020	"	0.200	0.0005	98.5	70-130	3.58	20	
Anthracene	0.188	0.020	"	0.200	0.0006	93.5	70-130	0.688	20	
Benzo (a) anthracene	0.183	0.005	"	0.200	0.001	90.7	70-130	2.49	20	
Benzo (a) pyrene	0.219	0.020	"	0.200	ND	110	70-130	0.588	20	
Benzo (b) fluoranthene	0.214	0.020	"	0.200	ND	107	70-130	3.97	20	
Benzo (g,h,i) perylene	0.205	0.020	"	0.200	0.0006	102	70-130	1.51	20	
Benzo (k) fluoranthene	0.215	0.020	"	0.200	0.0004	107	70-130	3.38	20	
Chrysene	0.197	0.020	"	0.200	ND	98.5	70-130	7.08	20	
Dibenz (a,h) anthracene	0.218	0.020	"	0.200	ND	109	70-130	4.66	20	
Fluoranthene	0.195	0.020	"	0.200	0.0003	97.3	70-130	0.891	20	

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Jordan A. Bynon, Project Manager



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Alfred Garraffa
 Project Number: [none]
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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L0547 - EPA 3580

Matrix Spike Dup (B4L0547-MSD1)

Source: E4K0865-01

Prepared: 12/05/2024 Analyzed: 12/06/2024

Fluorene	0.204	0.020	mg/kg	0.200	ND	102	70-130	1.79	20	
Indeno (1,2,3-cd) pyrene	0.224	0.020	"	0.200	ND	112	70-130	2.43	20	
Naphthalene	0.197	0.002	"	0.200	ND	98.7	70-130	0.944	20	
Phenanthrene	0.205	0.020	"	0.200	ND	103	70-130	3.08	20	
Pyrene	0.202	0.020	"	0.200	0.001	101	70-130	1.09	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

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 Project: Noble - WPF III #A18-13A

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L0211 - DTPA Sorbitol Preparation

Blank (B4L0211-BLK1)

Prepared: 12/02/2024 Analyzed: 12/03/2024

Boron ND 0.100 mg/L

Duplicate (B4L0211-DUP1)

Source: E4K0864-01

Prepared: 12/02/2024 Analyzed: 12/03/2024

Boron 0.525 0.101 mg/L 0.520 0.860 50

Batch B4L0218 - Saturated Paste Metals

Blank (B4L0218-BLK1)

Prepared: 12/02/2024 Analyzed: 12/05/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B4L0218-DUP1)

Source: E4K0864-01

Prepared: 12/02/2024 Analyzed: 12/05/2024

Calcium PPM 15.2 10.0 mg/L 15.6 2.47 50

SAR ND 0.0100 SAR 4.05 200

Magnesium PPM 4.29 10.0 mg/L 4.50 4.78 50

Sodium PPM 68.7 10.0 " 70.6 2.66 50

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Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L0225 - Saturated Paste pH/EC

Blank (B4L0225-BLK1)

Prepared: 12/02/2024 Analyzed: 12/04/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4L0225-DUP1)

Source: E4K0864-01

Prepared: 12/02/2024 Analyzed: 12/04/2024

Specific Conductance (EC) 0.442 0.00500 mmhos/cm 0.448 1.37 25

pH 8.54 pH Units 8.51 0.352 25

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 Wheat Ridge CO 80033

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Total Metals by SW7199 - Quality Control
Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHL0332 - No Prep IC-WET										
Blank (BHL0332-BLK1)										
					Prepared: 12/06/2024 Analyzed: 12/10/2024					
Chromium, Hexavalent	ND	0.005	mg/kg							
LCS (BHL0332-BS1)										
					Prepared: 12/06/2024 Analyzed: 12/11/2024					
Chromium, Hexavalent	0.05	0.005	mg/kg	0.0500		102	80-120			
Matrix Spike (BHL0332-MS1)										
					Source: 24L0073-01 Prepared: 12/06/2024 Analyzed: 12/11/2024					
Chromium, Hexavalent	2.24	0.20	mg/kg	2.00	ND	112	75-125			
Matrix Spike Dup (BHL0332-MSD1)										
					Source: 24L0073-01 Prepared: 12/06/2024 Analyzed: 12/11/2024					
Chromium, Hexavalent	2.33	0.20	mg/kg	2.00	ND	117	75-125	3.85	20	

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Eagle Environmental Consulting, LLC
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Wheat Ridge CO 80033

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

Notes and Definitions

- U Sample is Non-Detect.
 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

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