



May 15, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - UPRC K #35-19

Project Number - [none]

Attached are your analytical results for Noble - UPRC K #35-19 received by Origins Laboratory, Inc. May 01, 2024. This project is associated with Origins project number Y405053-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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



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

Andrew Newberry
Project Number: [none]
Project: Noble - UPRC K #35-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-01@4'	Y405053-01	Soil	May 1, 2024 11:55	05/01/2024 16:02
FL-SS-02@3'	Y405053-02	Soil	May 1, 2024 13:30	05/01/2024 16:02
Background-01@2'	Y405053-03	Soil	May 1, 2024 12:05	05/01/2024 16:02
Background-02@2'	Y405053-04	Soil	May 1, 2024 12:10	05/01/2024 16:02

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

ORIGINS LABORATORY, INC

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

www.originslaboratory.com
 44050533
 Project Manager: Andrew Newberry
 Project Name: UPRC K #35-19
 Project Number: PS
 Samples Collected By: PS
 Client: Eagle Environmental Consulting
 Address: 8000 W 44th Ave
 Telephone Number: 303-433-0479
 Email Address: newberry@eagle-env.com
 Fax: 303-265-9445

Sample ID Description	Date Sampled	Time Sampled	# of Condensers	Preservative			Matrix			Analysis	Sample Instructions	Turnaround Time
				Unpreserved	HCl	HNO ₃	Groundwater	Soil	Air Summ. & Cont. #			
Fl-35-01e-4	5/11/24	1155	3	X			X			X X X X A	EC, SAR, pH	24 HR <input type="checkbox"/>
Fl-35-02e-3	5/11/24	1330	3							X X X X A	Scheduled phase prep	48 HR <input type="checkbox"/>
Background 01e-2	5/11/24	1105	2									Standard <input checked="" type="checkbox"/>
Background 01e-1	5/11/24	1210	2									Standard <input checked="" type="checkbox"/>
Relinquished By: [Signature]	Date: 5/11/24	Time: 1602		Received By: [Signature]	Date: 5/11/24	Time: 1002						Standard <input checked="" type="checkbox"/>
Relinquished By: [Signature]	Date: 5/11/24	Time: 1602		Received By: [Signature]	Date: 5/11/24	Time: 1002						Standard <input checked="" type="checkbox"/>

Temp Received: [Signature] Date Results Needed: [Signature]

Origins Laboratory, Inc.
 [Signature]

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Jordan A. Bynon, Project Manager

ORIGINS LABORATORY, INC

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

Andrew Newberry
Project Number: [none]
Project: Noble - UPRC K #35-19

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 440553

Client: Fuelco

Client Project ID: UPRC K#35-19

Checklist Completed by: JAN

Shipped Via: HD

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

Date/time completed: 5/2/20

Airbill #: N/A

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

Water

Other:

Cooler Number/Temperature: 1 / 14 °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?				
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SD
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note 12 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 HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaOH, NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

5/3/24
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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Jordan A. Bynon, Project Manager

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

FL-SS-01@4
 5/1/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405053-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.641		0.100	mg/L	1	B4E0311	05/03/2024	05/07/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	2900		250	mg/kg	10	B4E0216	05/02/2024	05/06/2024	
Residual Range Organics (C28-C40)	8750		1000	"	"	"	"	"	

Surrogate: o-Terphenyl	221%		50-150	"	"	"	"	"	S-06, Ua
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00248		0.00200	mg/kg	1	B4E0235	05/02/2024	05/14/2024	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	0.00696		0.00380	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	05/09/2024	Ua

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Andrew Newberry
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FL-SS-01@4
 5/1/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405053-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			B4E02 35	05/02/2024	05/14/2024	
Surrogate: Toluene-d8	107 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	140 %		70-130			"	"	"	S-GC

Metals by Saturated Paste by EPA 6010

Calcium	2.38		0.499	meq/L	10	[CALC]	05/03/2024	05/06/2024	
Magnesium	1.48		0.823	"	"	"	"	"	
Sodium	2.57		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E0630	05/06/2024	05/07/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	I-01, Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	I-01, Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	I-01, Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	I-01, Ua

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 Project: Noble - UPRC K #35-19

FL-SS-01@4
 5/1/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405053-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4E0630	05/06/2024	05/07/2024	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	I-01, Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	107%		60-130			"	"	"	
Surrogate: Anthracene-d10	94.1%		60-130			"	"	"	
Surrogate: Pyrene-d10	79.3%		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	106%		60-130			"	"	"	I-01

pH in Soil by 9045D

pH	7.54			pH Units	1	B4E0318	05/03/2024	05/05/2024	
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SAR by 20B Saturated Paste

SAR	1.85		0.0100	SAR	1	B4E0307	05/03/2024	05/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.583		0.00500	mmhos/cm	1	B4E0318	05/03/2024	05/05/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Andrew Newberry
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 Project: Noble - UPRC K #35-19

FL-SS-01@4
 5/1/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405053-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.83		0.263	mg/kg	10	B4E0221	05/02/2024	05/07/2024	
Barium	41.8		9.06	"	"	"	"	"	"
Cadmium	0.260		0.0906	"	"	"	"	"	"
Copper	ND		9.06	"	"	"	"	"	"
Lead	9.68		0.906	"	"	"	"	"	"
Nickel	4.68		0.906	"	"	"	"	"	"
Selenium	0.236		0.236	"	"	"	"	"	"
Silver	ND		0.0906	"	"	"	"	"	"
Zinc	50.3		33.5	"	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.111	0.278	mg/kg dry	1	2607899	05/08/2024	05/09/2024	U
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

FL-SS-02@3'
 5/1/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405053-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0985	mg/L	1	B4E0311	05/03/2024	05/07/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E0216	05/02/2024	05/06/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

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

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E0235	05/02/2024	05/09/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

FL-SS-02@3'
 5/1/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405053-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	95.5 %		70-130			B4E02 35	05/02/2024	05/09/2024	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]		05/03/2024	05/06/2024	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	ND	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E0630		05/06/2024	05/07/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	Ua
Acenaphthene	ND	0.020	"	"	"		"	"	Ua
Anthracene	ND	0.020	"	"	"		"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Chrysene	ND	0.020	"	"	"		"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	Ua

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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

FL-SS-02@3'
 5/1/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405053-02 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4E0630	05/06/2024	05/07/2024	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	103%		60-130			"	"	"	
Surrogate: Anthracene-d10	93.7%		60-130			"	"	"	
Surrogate: Pyrene-d10	95.5%		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.1%		60-130			"	"	"	

pH in Soil by 9045D

pH	6.98			pH Units	1	B4E0318	05/03/2024	05/05/2024	
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SAR by 20B Saturated Paste

SAR	0.105		0.0100	SAR	1	B4E0307	05/03/2024	05/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.110		0.00500	mmhos/cm	1	B4E0318	05/03/2024	05/05/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

FL-SS-02@3'
5/1/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405053-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.35		0.251	mg/kg	10	B4E0221	05/02/2024	05/07/2024	
Barium	50.7		8.67	"	"	"	"	"	"
Cadmium	0.141		0.0867	"	"	"	"	"	"
Copper	ND		8.67	"	"	"	"	"	"
Lead	4.98		0.867	"	"	"	"	"	"
Nickel	4.54		0.867	"	"	"	"	"	"
Selenium	ND		0.225	"	"	"	"	"	"
Silver	ND		0.0867	"	"	"	"	"	"
Zinc	ND		32.1	"	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.0947	0.237	mg/kg dry	1	2607899	05/08/2024	05/09/2024	U
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

Background-01@2'
5/1/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405053-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.326		0.0992	mg/L	1	B4E0311	05/03/2024	05/07/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.19		0.499	meq/L	10	[CALC]	05/03/2024	05/06/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	9.18		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.49			pH Units	1	B4E0318	05/03/2024	05/05/2024	
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SAR by 20B Saturated Paste

SAR	9.41		0.0100	SAR	1	B4E0307	05/03/2024	05/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.24		0.00500	mmhos/cm	1	B4E0318	05/03/2024	05/05/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.94		0.282	mg/kg	10	B4E0221	05/02/2024	05/07/2024	
Barium	55.2		9.73	"	"	"	"	"	
Cadmium	0.122		0.0973	"	"	"	"	"	
Copper	ND		9.73	"	"	"	"	"	

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

Background-01@2'
5/1/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405053-03 (Soil)

Table 915 metals by EPA 6020B

Lead	5.60		0.973	mg/kg	10	B4E0221	05/02/2024	05/07/2024	
Nickel	5.01		0.973	"	"	"	"	"	"
Selenium	ND		0.253	"	"	"	"	"	"
Silver	ND		0.0973	"	"	"	"	"	"
Zinc	ND		36.0	"	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.0987	0.247	mg/kg dry	1	2607899	05/08/2024	05/09/2024	U
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Origins Laboratory, Inc.


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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

Background-02@2'
5/1/2024 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405053-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.301		0.0996	mg/L	1	B4E0312	05/03/2024	05/07/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.73		0.499	meq/L	10	[CALC]	05/03/2024	05/06/2024	
Magnesium	1.24		0.823	"	"	"	"	"	
Sodium	9.20		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.48			pH Units	1	B4E0318	05/03/2024	05/05/2024	
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SAR by 20B Saturated Paste

SAR	7.55		0.0100	SAR	1	B4E0307	05/03/2024	05/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.19		0.00500	mmhos/cm	1	B4E0318	05/03/2024	05/05/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.58		0.262	mg/kg	10	B4E0221	05/02/2024	05/07/2024	
Barium	69.6		9.04	"	"	"	"	"	
Cadmium	0.118		0.0904	"	"	"	"	"	
Copper	ND		9.04	"	"	"	"	"	

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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

Background-02@2'
5/1/2024 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405053-04 (Soil)

Table 915 metals by EPA 6020B

Lead	5.02		0.904	mg/kg	10	B4E0221	05/02/2024	05/07/2024	
Nickel	4.47		0.904	"	"	"	"	"	"
Selenium	ND		0.235	"	"	"	"	"	"
Silver	ND		0.0904	"	"	"	"	"	"
Zinc	ND		33.4	"	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.123	0.308	mg/kg dry	1	2607899	05/08/2024	05/09/2024	U
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 Project: Noble - UPRC K #35-19

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 B4E0216 - EPA 3550B

Prepared: 05/02/2024 Analyzed: 05/04/2024

Blank (B4E0216-BLK1)

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	20		"	24.9		79.5	50-150			

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

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 B4E0216 - EPA 3550B

LCS (B4E0216-BS1)

Prepared: 05/02/2024 Analyzed: 05/04/2024

Diesel (C10-C28)	857	50.0	mg/kg	1000		85.7	70-130			
Residual Range Organics (C28-C40)	842	200	"	1000		84.2	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.2	50-150			

Origins Laboratory, Inc.

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Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

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 B4E0216 - EPA 3550B

Matrix Spike (B4E0216-MS1)

Source: Y405046-01

Prepared: 05/02/2024 Analyzed: 05/04/2024

Diesel (C10-C28)	861	50.0	mg/kg	1000	ND	86.1	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000	287	84.4	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.7	50-150			

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Jordan A. Bynon, Project Manager



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Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

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 B4E0216 - EPA 3550B

Matrix Spike Dup (B4E0216-MSD1)

Source: Y405046-01

Prepared: 05/02/2024 Analyzed: 05/04/2024

Diesel (C10-C28)	856	50.0	mg/kg	1000	ND	85.6	70-130	0.561	35	
Residual Range Organics (C28-C40)	1100	200	"	1000	287	80.9	70-130	3.15	35	
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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Jordan A. Bynon, Project Manager



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Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

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 B4E0235 - EPA 5030 (soil)

Blank (B4E0235-BLK1)

Prepared: 05/02/2024 Analyzed: 05/09/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.9	70-130			

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Jordan A. Bynon, Project Manager



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Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

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 B4E0235 - EPA 5030 (soil)

LCS (B4E0235-BS1)

Prepared: 05/02/2024 Analyzed: 05/09/2024

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.0981	0.00200	"	0.100		98.1	70-130			
Ethylbenzene	0.0995	0.00200	"	0.100		99.5	70-130			
Naphthalene	0.100	0.00380	"	0.100		100	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.199	0.00400	"	0.200		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.7	70-130			

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Jordan A. Bynon, Project Manager



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Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

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 B4E0235 - EPA 5030 (soil)

Matrix Spike (B4E0235-MS1)

Source: Y405013-01

Prepared: 05/02/2024 Analyzed: 05/09/2024

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Benzene	0.0970	0.00200	"	0.100	ND	97.0	70-130			
Ethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
Naphthalene	0.0889	0.00380	"	0.100	ND	88.9	70-130			
Toluene	0.103	0.00200	"	0.100	ND	103	70-130			
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130			
m,p-Xylene	0.210	0.00400	"	0.200	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		80.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.3	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

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 B4E0235 - EPA 5030 (soil)

Matrix Spike Dup (B4E0235-MSD1)

Source: Y405013-01

Prepared: 05/02/2024 Analyzed: 05/09/2024

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	ND	107	70-130	2.23	20	
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130	0.999	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	3.96	20	
Ethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130	0.424	20	
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130	15.2	20	
Toluene	0.106	0.00200	"	0.100	ND	106	70-130	3.22	20	
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130	1.57	20	
m,p-Xylene	0.208	0.00400	"	0.200	ND	104	70-130	1.07	20	
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		82.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.2	70-130			

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Jordan A. Bynon, Project Manager



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

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 B4E0221 - EPA 3050B

Blank (B4E0221-BLK1)

Prepared: 05/02/2024 Analyzed: 05/07/2024

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 (B4E0221-BS1)

Prepared: 05/02/2024 Analyzed: 05/07/2024

Arsenic	5.59	0.290	mg/kg	5.00		112	80-120			
Barium	512	10.0	"	500		102	80-120			
Cadmium	5.44	0.100	"	5.00		109	80-120			
Copper	58.4	10.0	"	50.0		117	80-120			
Lead	5.52	1.00	"	5.00		110	80-120			
Nickel	5.92	1.00	"	5.00		118	80-120			
Selenium	10.7	0.260	"	9.50		112	80-120			
Silver	5.88	0.100	"	5.00		118	80-120			
Zinc	53.6	37.0	"	50.0		107	80-120			

Matrix Spike (B4E0221-MS1)

Source: Y405052-01

Prepared: 05/02/2024 Analyzed: 05/08/2024

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Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

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 B4E0221 - EPA 3050B

Matrix Spike (B4E0221-MS1)

Source: Y405052-01

Prepared: 05/02/2024 Analyzed: 05/08/2024

Arsenic	13.6	0.270	mg/kg	4.65	5.42	175	75-125			QM-07
Barium	674	9.31	"	465	167	109	75-125			
Cadmium	5.50	0.0931	"	4.65	0.399	110	75-125			
Copper	74.5	9.31	"	46.5	18.1	121	75-125			
Lead	36.6	0.931	"	4.65	14.8	468	75-125			QM-07
Nickel	18.2	0.931	"	4.65	12.9	113	75-125			
Selenium	10.1	0.242	"	8.84	0.351	111	75-125			
Silver	5.48	0.0931	"	4.65	0.0716	116	75-125			
Zinc	114	34.4	"	46.5	58.8	119	75-125			

Matrix Spike Dup (B4E0221-MSD1)

Source: Y405052-01

Prepared: 05/02/2024 Analyzed: 05/08/2024

Arsenic	10.4	0.287	mg/kg	4.94	5.42	100	75-125	26.6	20	QM-07
Barium	685	9.88	"	494	167	105	75-125	1.63	20	
Cadmium	5.51	0.0988	"	4.94	0.399	103	75-125	0.223	20	
Copper	74.8	9.88	"	49.4	18.1	115	75-125	0.388	20	
Lead	24.5	0.988	"	4.94	14.8	195	75-125	39.8	20	QM-07
Nickel	17.5	0.988	"	4.94	12.9	91.3	75-125	4.14	20	
Selenium	10.3	0.257	"	9.39	0.351	106	75-125	1.71	20	
Silver	5.57	0.0988	"	4.94	0.0716	111	75-125	1.65	20	
Zinc	111	36.6	"	49.4	58.8	106	75-125	2.46	20	

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Jordan A. Bynon, Project Manager



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E0630 - EPA 3580

Prepared: 05/06/2024 Analyzed: 05/07/2024

Blank (B4E0630-BLK1)

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		93.9	60-130			
Surrogate: Pyrene-d10	200		"	200		99.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

LCS (B4E0630-BS1)

Prepared: 05/06/2024 Analyzed: 05/07/2024

1-Methylnaphthalene	0.215	0.002	mg/kg	0.200		108	70-130			
2-Methylnaphthalene	0.214	0.002	"	0.200		107	70-130			
Acenaphthene	0.222	0.020	"	0.200		111	70-130			
Anthracene	0.205	0.020	"	0.200		103	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E0630 - EPA 3580

LCS (B4E0630-BS1)

Prepared: 05/06/2024 Analyzed: 05/07/2024

Benzo (a) anthracene	0.208	0.005	mg/kg	0.200		104	70-130			
Benzo (a) pyrene	0.207	0.020	"	0.200		104	70-130			
Benzo (b) fluoranthene	0.214	0.020	"	0.200		107	70-130			
Benzo (g,h,i) perylene	0.205	0.020	"	0.200		103	70-130			
Benzo (k) fluoranthene	0.190	0.020	"	0.200		94.9	70-130			
Chrysene	0.216	0.020	"	0.200		108	70-130			
Dibenz (a,h) anthracene	0.229	0.020	"	0.200		114	70-130			
Fluoranthene	0.203	0.020	"	0.200		101	70-130			
Fluorene	0.235	0.020	"	0.200		117	70-130			
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200		103	70-130			
Naphthalene	0.223	0.002	"	0.200		111	70-130			
Phenanthrene	0.213	0.020	"	0.200		107	70-130			
Pyrene	0.201	0.020	"	0.200		101	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Pyrene-d10	190		"	200		95.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B4E0630-MS1)

Source: Y405046-01

Prepared: 05/06/2024 Analyzed: 05/07/2024

1-Methylnaphthalene	0.212	0.002	mg/kg	0.200	ND	106	70-130			
2-Methylnaphthalene	0.212	0.002	"	0.200	ND	106	70-130			
Acenaphthene	0.218	0.020	"	0.200	ND	109	70-130			
Anthracene	0.200	0.020	"	0.200	0.001	99.3	70-130			
Benzo (a) anthracene	0.215	0.005	"	0.200	ND	107	70-130			
Benzo (a) pyrene	0.206	0.020	"	0.200	ND	103	70-130			
Benzo (b) fluoranthene	0.189	0.020	"	0.200	ND	94.6	70-130			
Benzo (g,h,i) perylene	0.216	0.020	"	0.200	0.0007	108	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E0630 - EPA 3580

Matrix Spike (B4E0630-MS1)

Source: Y405046-01

Prepared: 05/06/2024 Analyzed: 05/07/2024

Benzo (k) fluoranthene	0.185	0.020	mg/kg	0.200	0.0006	92.4	70-130			
Chrysene	0.205	0.020	"	0.200	0.0006	102	70-130			
Dibenz (a,h) anthracene	0.223	0.020	"	0.200	ND	111	70-130			
Fluoranthene	0.198	0.020	"	0.200	0.0006	98.8	70-130			
Fluorene	0.231	0.020	"	0.200	ND	116	70-130			
Indeno (1,2,3-cd) pyrene	0.220	0.020	"	0.200	0.002	109	70-130			
Naphthalene	0.221	0.002	"	0.200	ND	110	70-130			
Phenanthrene	0.209	0.020	"	0.200	ND	104	70-130			
Pyrene	0.196	0.020	"	0.200	0.0006	97.9	70-130			

Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	190		"	200		92.7	60-130			
Surrogate: Pyrene-d10	190		"	200		93.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B4E0630-MSD1)

Source: Y405046-01

Prepared: 05/06/2024 Analyzed: 05/07/2024

1-Methylnaphthalene	0.210	0.002	mg/kg	0.200	ND	105	70-130	0.981	20	
2-Methylnaphthalene	0.210	0.002	"	0.200	ND	105	70-130	1.11	20	
Acenaphthene	0.217	0.020	"	0.200	ND	109	70-130	0.325	20	
Anthracene	0.202	0.020	"	0.200	0.001	100	70-130	1.03	20	
Benzo (a) anthracene	0.213	0.005	"	0.200	ND	107	70-130	0.653	20	
Benzo (a) pyrene	0.202	0.020	"	0.200	ND	101	70-130	1.80	20	
Benzo (b) fluoranthene	0.182	0.020	"	0.200	ND	91.2	70-130	3.63	20	
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	0.0007	103	70-130	3.99	20	
Benzo (k) fluoranthene	0.167	0.020	"	0.200	0.0006	83.3	70-130	10.4	20	
Chrysene	0.214	0.020	"	0.200	0.0006	107	70-130	4.32	20	
Dibenz (a,h) anthracene	0.219	0.020	"	0.200	ND	109	70-130	1.71	20	
Fluoranthene	0.199	0.020	"	0.200	0.0006	99.4	70-130	0.606	20	

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Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E0630 - EPA 3580

Matrix Spike Dup (B4E0630-MSD1)

Source: Y405046-01

Prepared: 05/06/2024 Analyzed: 05/07/2024

Fluorene	0.225	0.020	mg/kg	0.200	ND	112	70-130	2.96	20	
Indeno (1,2,3-cd) pyrene	0.222	0.020	"	0.200	0.002	110	70-130	0.866	20	
Naphthalene	0.217	0.002	"	0.200	ND	109	70-130	1.43	20	
Phenanthrene	0.208	0.020	"	0.200	ND	104	70-130	0.167	20	
Pyrene	0.193	0.020	"	0.200	0.0006	96.1	70-130	1.83	20	
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		93.7	60-130			
Surrogate: Pyrene-d10	190		"	200		92.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.6	60-130			

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Jordan A. Bynon, Project Manager



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Andrew Newberry
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 Project: Noble - UPRC K #35-19

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 B4E0307 - Saturated Paste Metals

Blank (B4E0307-BLK1)

Prepared: 05/03/2024 Analyzed: 05/06/2024

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

Duplicate (B4E0307-DUP1)

Source: Y405052-03

Prepared: 05/03/2024 Analyzed: 05/06/2024

SAR	ND	0.0100	SAR	1.91				200		
Calcium PPM	180	10.0	mg/L	213				16.9	50	
Magnesium PPM	66.4	10.0	"	79.6				18.1	50	
Sodium PPM	104	10.0	"	128				20.9	50	

Batch B4E0311 - DTPA Sorbitol Preparation

Blank (B4E0311-BLK1)

Prepared: 05/03/2024 Analyzed: 05/07/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4E0311-DUP1)

Source: Y405041-07

Prepared: 05/03/2024 Analyzed: 05/07/2024

Boron	0.736	0.0983	mg/L	0.801				8.42	50	
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Batch B4E0312 - DTPA Sorbitol Preparation

Blank (B4E0312-BLK1)

Prepared: 05/03/2024 Analyzed: 05/07/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4E0312-DUP1)

Source: Y405053-04

Prepared: 05/03/2024 Analyzed: 05/07/2024

Boron	0.292	0.100	mg/L	0.301				2.94	50	
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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

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 B4E0318 - Saturated Paste pH/EC

Blank (B4E0318-BLK1)

Prepared: 05/03/2024 Analyzed: 05/05/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4E0318-DUP1)

Source: Y405052-03

Prepared: 05/03/2024 Analyzed: 05/05/2024

pH 8.32 pH Units 8.59 3.19 25

Specific Conductance (EC) 1.45 0.00500 mmhos/cm 1.61 10.9 25

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - UPRC K #35-19

Total Metals by 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2607899 - SW846 3060A

BLANK (1205724997-BLK)

Prepared: 05/08/2024 Analyzed: 05/09/2024

Hexavalent Chromium	ND	0.297	mg/kg							U
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LCS (1205724998-BKS)

Prepared: 05/08/2024 Analyzed: 05/09/2024

Hexavalent Chromium	3.83	0.390	mg/kg	3.90		98.1	80-120			
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DUP (1205724999 D)

Source: 665947001

Prepared: 05/08/2024 Analyzed: 05/09/2024

Hexavalent Chromium	ND	0.338	mg/kg dry		<0.135		0-50	N/A	50	U
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MS (1205725000 S)

Source: 665947001

Prepared: 05/08/2024 Analyzed: 05/09/2024

Hexavalent Chromium	1.79	0.338	mg/kg dry	3.38	<0.135	52.8	75-125			
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DUP (1205725001 D)

Source: 665964001

Prepared: 05/08/2024 Analyzed: 05/09/2024

Hexavalent Chromium	ND	0.290	mg/kg dry		0.124		0-50	N/A	50	U
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MS (1205725002 S)

Source: 665964001

Prepared: 05/08/2024 Analyzed: 05/09/2024

Hexavalent Chromium	1.59	0.290	mg/kg dry	2.90	0.124	50.8	75-125			
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ILCS (1205725003-ILCS)

Prepared: 05/08/2024 Analyzed: 05/09/2024

Hexavalent Chromium	7.91	0.386	mg/kg	7.80		101	80-120			
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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - UPRC K #35-19

Notes and Definitions

- Ua Sample is Non-Detect.
 - U Result not detected above the detection limit
 - S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
 - S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
 - I-01 Due to matrix interference, the sample cannot be accurately quantified. The reported result is qualitative.
 - 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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