



April 14, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - QC USX #A32-19

Project Number - [none]

Attached are your analytical results for Noble - QC USX #A32-19 received by Origins Laboratory, Inc. March 31, 2022. This project is associated with Origins project number Y203824-01.

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

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

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

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

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

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



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



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

Martin C Eckert III
Project Number: [none]
Project: Noble - QC USX #A32-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y203824-01	Soil	March 31, 2022 11:38	03/31/2022 15:21
FL-SS-01@3'	Y203824-02	Soil	March 31, 2022 11:51	03/31/2022 15:21

Origins Laboratory, Inc.

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Jordan A. Bynon For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - QC USX #A32-19

www.originslab.com page 1 of 1

ORIGINS LABORATORY, INC
 Client: Eagle Env Consulting
 Address: 8000 W 44th Ave
 Telephone Number: 303-433-0479
 Email Address: MCE@eagleenv.com

Project Manager: Martin Eckert III
 Project Name: QC USX #A32-19
 Project Number: [none]
 Samples Collected By: RH

Matrix: Air Summ. [X] Soil [] Groundwater [] Other []
 Preservative: HNO3 [] HCl [] Unpreserved []
 # of Containers: 2 [] Time Sampled: 11:59 AM
 Date Sampled: 3/12/25
 Sample ID Description: 1. MS 1.0.0.0
 2. MS 1.0.0.0
 3. MS 1.0.0.0
 4. MS 1.0.0.0
 5. MS 1.0.0.0

Sample ID	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Other	Date	Time	Received By	Date	Time	Relinquished By	Date	Time	Relinquished By	Turnaround Time
1	3/12/25	11:59 AM	2	[]	[X]	[]	3/12/25	11:59 AM	HE	3/12/25	11:59 AM	HE	3/12/25	11:59 AM	HE	24 hr
2	3/12/25	11:59 AM	2	[]	[X]	[]	3/12/25	11:59 AM	HE	3/12/25	11:59 AM	HE	3/12/25	11:59 AM	HE	24 hr
3	3/12/25	11:59 AM	2	[]	[X]	[]	3/12/25	11:59 AM	HE	3/12/25	11:59 AM	HE	3/12/25	11:59 AM	HE	24 hr
4	3/12/25	11:59 AM	2	[]	[X]	[]	3/12/25	11:59 AM	HE	3/12/25	11:59 AM	HE	3/12/25	11:59 AM	HE	24 hr
5	3/12/25	11:59 AM	2	[]	[X]	[]	3/12/25	11:59 AM	HE	3/12/25	11:59 AM	HE	3/12/25	11:59 AM	HE	24 hr

Date Results Needed: 3/12/25
 Temp Received: 5-1
 Date Results Needed: 3/12/25

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Martin C Eckert III
Project Number: [none]
Project: Noble - QC USX #A32-19

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y203824

Client: Eagle

Client Project ID: QC USX A32-19

Checklist Completed by: SG

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

Date/time completed: 3/31/22

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.1 °C _____ °C _____ °C _____ °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⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 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 NaAsO ₂ -NaOH, ZnAc ₂ -NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager): JP

Date/Time Reviewed: 4/1/22

Origins Laboratory, Inc.



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Jordan A. Bynon For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - QC USX #A32-19

WH-FS-01@6'
3/31/2022 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203824-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.393		0.0981	mg/L	1	B2D0110	04/01/2022	04/04/2022	
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DRO/ORO by EPA 8015D


Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D0103	04/01/2022	04/07/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 84.0% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D0509	04/05/2022	04/08/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110% 70-130 " " " "

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3/31/2022 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203824-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.0 %		70-130			B2D05 09	04/05/2022	04/08/2022	
Surrogate: 4-Bromofluorobenzene	99.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.55		0.499	meq/L	10	[CALC]	04/01/2022	04/05/2022	
Magnesium	2.58		0.823	"	"	"	"	"	
Sodium	2.51		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L610087	04/11/2022	04/12/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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3/31/2022 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y203824-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L610087	04/11/2022	04/12/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	45.7 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	58.5 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	51.2 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	7.81			pH Units	1	B2D0408	04/04/2022	04/05/2022	
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SAR by 20B Saturated Paste

SAR	1.33			SAR	1	B2D0109	04/01/2022	04/05/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.934		0.00500	mmhos/cm	1	B2D0409	04/04/2022	04/05/2022	
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - QC USX #A32-19

FL-SS-01@3'
 3/31/2022 11:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203824-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.120		0.100	mg/L	1	B2D0110	04/01/2022	04/04/2022	
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DRO/ORO by EPA 8015D


Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D0103	04/01/2022	04/07/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.3%		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D0509	04/05/2022	04/08/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110%		70-130	"	"	"	"	"	
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FL-SS-01@3'
 3/31/2022 11:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203824-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	94.9 %		70-130			B2D05 09	04/05/2022	04/08/2022	
Surrogate: 4-Bromofluorobenzene	98.8 %		70-130			"	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.34		0.499	meq/L	10	[CALC]	04/01/2022	04/05/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.457		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L610087	04/11/2022	04/12/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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Martin C Eckert III
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FL-SS-01@3'
 3/31/2022 11:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y203824-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L610087	04/11/2022	04/12/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	44 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	61.5 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	50.2 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.23			pH Units	1	B2D0408	04/04/2022	04/05/2022	
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SAR by 20B Saturated Paste

SAR	0.482			SAR	1	B2D0109	04/01/2022	04/05/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.229		0.00500	mmhos/cm	1	B2D0409	04/04/2022	04/05/2022	
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - QC USX #A32-19

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 B2D0103 - EPA 3550B

Blank (B2D0103-BLK1)

Prepared: 04/01/2022 Analyzed: 04/07/2022

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		91.6	50-150			

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Martin C Eckert III
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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 B2D0103 - EPA 3550B

LCS (B2D0103-BS1)

Prepared: 04/01/2022 Analyzed: 04/07/2022

Diesel (C10-C28)	878	50.0	mg/kg	1000		87.8	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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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 B2D0103 - EPA 3550B

Matrix Spike (B2D0103-MS1)

Source: Y203818-01

Prepared: 04/01/2022 Analyzed: 04/07/2022

Diesel (C10-C28)	884	50.0	mg/kg	1000	148	73.6	70-130			
Residual Range Organics (C28-C40)	869	200	"	1000	79.5	78.9	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.0	50-150			

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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 B2D0103 - EPA 3550B

Matrix Spike Dup (B2D0103-MSD1)

Source: Y203818-01

Prepared: 04/01/2022 Analyzed: 04/07/2022

Diesel (C10-C28)	828	50.0	mg/kg	1000	148	68.0	70-130	6.51	35	QM-07
Residual Range Organics (C28-C40)	905	200	"	1000	79.5	82.6	70-130	4.11	35	
Surrogate: o-Terphenyl	49		"	49.8		98.1	50-150			

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Martin C Eckert III
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 Project: Noble - QC USX #A32-19

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 B2D0509 - EPA 5030 (soil)

Blank (B2D0509-BLK1)

Prepared: 04/05/2022 Analyzed: 04/08/2022

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	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - QC USX #A32-19

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 B2D0509 - EPA 5030 (soil)

LCS (B2D0509-BS1)

Prepared: 04/05/2022 Analyzed: 04/08/2022

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.0971	0.00200	"	0.100		97.1	70-130			
Naphthalene	0.114	0.0100	"	0.100		114	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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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 B2D0509 - EPA 5030 (soil)

Matrix Spike (B2D0509-MS1)

Source: Y203824-01

Prepared: 04/05/2022 Analyzed: 04/08/2022

1,2,4-Trimethylbenzene	0.117	0.00200	mg/kg	0.100	ND	117	70-130			
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100	ND	117	70-130			
Benzene	0.115	0.00200	"	0.100	ND	115	70-130			
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Naphthalene	0.100	0.0100	"	0.100	ND	100	70-130			
Toluene	0.109	0.00200	"	0.100	ND	109	70-130			
o-Xylene	0.113	0.00200	"	0.100	ND	113	70-130			
m,p-Xylene	0.227	0.00400	"	0.200	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

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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 B2D0509 - EPA 5030 (soil)

Matrix Spike Dup (B2D0509-MSD1)

Source: Y203824-01

Prepared: 04/05/2022 Analyzed: 04/08/2022

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100	ND	109	70-130	7.06	20	
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	8.24	20	
Benzene	0.107	0.00200	"	0.100	ND	107	70-130	6.81	20	
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	7.04	20	
Naphthalene	0.108	0.0100	"	0.100	ND	108	70-130	7.93	20	
Toluene	0.102	0.00200	"	0.100	ND	102	70-130	6.26	20	
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130	6.11	20	
m,p-Xylene	0.208	0.00400	"	0.200	ND	104	70-130	8.54	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Martin C Eckert III
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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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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 B2D0408 - NO PREP

Duplicate (B2D0408-DUP1)

Source: Y203806-04

Prepared: 04/04/2022 Analyzed: 04/05/2022

pH 7.90 pH Units 7.93 0.379 25

Batch B2D0409 - NO PREP

Blank (B2D0409-BLK1)

Prepared: 04/04/2022 Analyzed: 04/05/2022

Specific Conductance (EC) 0.000800 0.00500 mmhos/cm

Duplicate (B2D0409-DUP1)

Source: Y203806-04

Prepared: 04/04/2022 Analyzed: 04/05/2022

Specific Conductance (EC) 0.622 0.00500 mmhos/cm 0.634 1.85 25

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Martin C Eckert III
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 Project: Noble - QC USX #A32-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L610087 - 3550B

MSD (L 89927-MSD-L610087)

Source: 89927

Prepared: 04/11/2022 Analyzed: 04/12/2022

Benzo(a)pyrene	0.00368	0.000468	mg/Kg	0.164	<0.000468	2.2	30-130	187	30	*
1-Methylnaphthalene	0.00233	0.000364	"	0.164	<0.000364	1.4	30-130	190	30	*
2-Methylnaphthalene	0.00241	0.000645	"	0.164	<0.000645	1.4	30-130	189	30	*
Acenaphthene	0.00216	0.000304	"	0.164	<0.000304	1.3	30-130	191	30	*
Naphthalene	0.00203	0.000484	"	0.164	<0.000484	1.2	30-130	191	30	*
Benzo(a)anthracene	0.00302	0.000493	"	0.164	<0.000493	1.8	30-130	189	30	*
Indeno(1,2,3-cd)pyrene	0.00285	0.000627	"	0.164	<0.000627	1.7	30-130	189	30	*
Fluorene	0.00254	0.000286	"	0.164	<0.000286	1.5	30-130	190	30	*
Fluoranthene	0.00264	0.000394	"	0.164	<0.000394	1.6	30-130	190	30	*
Dibenz(a,h)anthracene	0.00322	0.000614	"	0.164	<0.000614	1.9	30-130	188	30	*
Chrysene	0.00372	0.000624	"	0.164	<0.000624	2.2	30-130	186	30	*
Benzo(k)fluoranthene	0.00294	0.000437	"	0.164	<0.000437	1.7	30-130	188	30	*
Benzo(b)fluoranthene	0.00252	0.000585	"	0.164	<0.000585	1.5	30-130	190	30	*
Anthracene	0.00228	0.000334	"	0.164	<0.000334	1.3	30-130	191	30	*
Pyrene	0.00293	0.000643	"	0.164	<0.000643	1.7	30-130	189	30	*

Surrogate: 2-Fluorobiphenyl
 Surrogate: 4-Terphenyl-d14
 Surrogate: Nitrobenzene-d5

43.5	"	0.328	154	43.5	33-115
57.9	"	0.328	208	57.9	33-122
48.1	"	0.328	174	48.1	29-110

MS (L 89927-MS-L610087)

Source: 89927

Prepared: 04/11/2022 Analyzed: 04/12/2022

Benzo(a)anthracene	0.11	0.000493	mg/Kg	0.164	<0.000493	67	30-130			
Chrysene	0.106	0.000624	"	0.164	<0.000624	64.6	30-130			
Pyrene	0.105	0.000643	"	0.164	<0.000643	64	30-130			
Naphthalene	0.0886	0.000484	"	0.164	<0.000484	54	30-130			
Indeno(1,2,3-cd)pyrene	0.103	0.000627	"	0.164	<0.000627	62.8	30-130			
Fluorene	0.0998	0.000286	"	0.164	<0.000286	60.8	30-130			
Fluoranthene	0.106	0.000394	"	0.164	<0.000394	64.6	30-130			

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Martin C Eckert III
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PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L610087 - 3550B

MS (L 89927-MS-L610087)

Source: 89927

Prepared: 04/11/2022 Analyzed: 04/12/2022

Dibenz(a,h)anthracene	0.107	0.000614	mg/Kg	0.164	<0.000614	65.2	30-130			
Benzo(a)pyrene	0.109	0.000468	"	0.164	<0.000468	66.4	30-130			
Anthracene	0.0994	0.000334	"	0.164	<0.000334	60.6	30-130			
Acenaphthene	0.0916	0.000304	"	0.164	<0.000304	55.8	30-130			
2-Methylnaphthalene	0.0873	0.000645	"	0.164	<0.000645	53.2	30-130			
Benzo(k)fluoranthene	0.099	0.000437	"	0.164	<0.000437	60.3	30-130			
Benzo(b)fluoranthene	0.0945	0.000585	"	0.164	<0.000585	57.6	30-130			
1-Methylnaphthalene	0.0869	0.000364	"	0.164	<0.000364	52.9	30-130			
Surrogate: Nitrobenzene-d5	53.9		"	0.328	174	53.9	29-110			
Surrogate: 2-Fluorobiphenyl	47.2		"	0.328	154	47.2	33-115			
Surrogate: 4-Terphenyl-d14	63.1		"	0.328	208	63.1	33-122			

LCS (LCS-L610087)

Prepared: 04/11/2022 Analyzed: 04/12/2022

Dibenz(a,h)anthracene	0.0975	0.000614	mg/Kg	0.167		58.3	30-130			
Fluoranthene	0.0966	0.000394	"	0.167		57.8	30-130			
Fluorene	0.0897	0.000286	"	0.167		53.7	30-130			
Pyrene	0.096	0.000643	"	0.167		57.4	30-130			
Indeno(1,2,3-cd)pyrene	0.0895	0.000627	"	0.167		53.5	30-130			
2-Methylnaphthalene	0.0812	0.000645	"	0.167		48.6	30-130			
Chrysene	0.0941	0.000624	"	0.167		56.3	30-130			
Naphthalene	0.0822	0.000484	"	0.167		49.2	30-130			
Benzo(b)fluoranthene	0.0858	0.000585	"	0.167		51.3	30-130			
Benzo(a)pyrene	0.0955	0.000468	"	0.167		57.1	30-130			
Benzo(a)anthracene	0.0982	0.000493	"	0.167		58.8	30-130			
Anthracene	0.0934	0.000334	"	0.167		55.9	30-130			
1-Methylnaphthalene	0.0822	0.000364	"	0.167		49.2	30-130			
Acenaphthene	0.085	0.000304	"	0.167		50.8	30-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L610087 - 3550B

LCS (LCS-L610087)

Prepared: 04/11/2022 Analyzed: 04/12/2022

Benzo(k)fluoranthene	0.0971	0.000437	mg/Kg	0.167		58.1	30-130			
Surrogate: Nitrobenzene-d5	58.2		"	0.333		58.2	29-110			
Surrogate: 4-Terphenyl-d14	68.4		"	0.333		68.4	33-122			
Surrogate: 2-Fluorobiphenyl	52.5		"	0.333		52.5	33-115			

LRB (LRB-L610087)

Prepared: 04/11/2022 Analyzed: 04/12/2022

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	48.6		"	0.333		48.6	29-110			
Surrogate: 4-Terphenyl-d14	55.5		"	0.333		55.5	33-122			
Surrogate: 2-Fluorobiphenyl	45		"	0.333		45	33-115			

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Martin C Eckert III
Project Number: [none]
Project: Noble - QC USX #A32-19

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.
 - * QC Failure
 - 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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