



April 19, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Kohlhoff USX AB #17-03P Project Number - [none]

Attached are your analytical results for Noble - Kohlhoff USX AB #17-03P received by Origins Laboratory, Inc. April 09, 2024. This project is associated with Origins project number Y404284-01.

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 - Kohlhoff USX AB #17-03P

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-02@4	Y404284-01	Soil	April 9, 2024 14:54	04/09/2024 17:08
Background-02@3	Y404284-02	Soil	April 9, 2024 15:00	04/09/2024 17:08

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 - Kohlhoff USX AB #17-03P

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

Sample Receipt Checklist

Origins Work Order: 4404284 Client: Caq, Inc
Client Project ID: Kohlhoff USX

Checklist Completed by: EAD Shipped Via: HO
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 4/19/24 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: 5005

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 sub-contracted analyses in order to insure sample integrity)(pH < 2 for samples preserved with HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

4/11/24
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Kohlhoff USX AB #17-03P

FL-SS-02@4'
4/9/2024 2:54:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404284-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4D1107	ACC	04/11/2024	04/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D1102	ZZZ	04/11/2024	04/12/2024	U
Residual Range Organics (C28-C40)	233	100	"	"	"	ZZZ	"	"	

Surrogate: o-Terphenyl	104 %		50-150		"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D1047	HK	04/10/2024	04/13/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Naphthalene	ND	0.00380	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	162 %		70-130		"	"	"	"	S-GC
Surrogate: Toluene-d8	95.6 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %		70-130		"	"	"	"	

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 Project Number: [none]
 Project: Noble - Kohlhoff USX AB #17-03P

FL-SS-02@4
 4/9/2024 2:54:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404284-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.942	0.499	meq/L	10	[CALC]	ACC	04/11/2024	04/12/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	0.916	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D1514	Windo	04/15/2024	04/16/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

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FL-SS-02@4'
 4/9/2024 2:54:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404284-01 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	99.1 %		60-130		B4D15		04/15/2024	04/16/2024	
					14				
Surrogate: Anthracene-d10	107 %		60-130		"		"	"	
Surrogate: Pyrene-d10	97.5 %		60-130		"		"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130		"		"	"	

pH in Soil by 9045D

pH	8.52		pH Units	1	B4D1119	EAL	04/11/2024	04/12/2024	
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SAR by 20B Saturated Paste

SAR	1.06	0.0100	SAR	1	B4D1113	ACC	04/11/2024	04/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.276	0.00500	mmhos/cm	1	B4D1119	EAL	04/11/2024	04/12/2024	
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Project Number: [none]
Project: Noble - Kohlhoff USX AB #17-03P

Background-02@3'
4/9/2024 3:00:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404284-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.134	0.101	mg/L	1	B4D1107	ACC	04/11/2024	04/12/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.51	0.499	meq/L	10	[CALC]	ACC	04/11/2024	04/12/2024	
Magnesium	0.835	0.823	"	"	"	ACC	"	"	
Sodium	ND	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	8.53		pH Units	1	B4D1119	EAL	04/11/2024	04/12/2024	
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SAR by 20B Saturated Paste

SAR	0.128	0.0100	SAR	1	B4D1113	ACC	04/11/2024	04/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.294	0.00500	mmhos/cm	1	B4D1119	EAL	04/11/2024	04/12/2024	
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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 B4D1047 - EPA 5030 (soil)

Blank (B4D1047-BLK1)

Prepared: 04/10/2024 Analyzed: 04/12/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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Jordan A. Bynon, Project Manager



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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 B4D1047 - EPA 5030 (soil)

LCS (B4D1047-BS1)

Prepared: 04/10/2024 Analyzed: 04/12/2024

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	104	104	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	106	106	70-130			
Benzene	0.0934	0.00200	"	0.100	93.4	93.4	70-130			
Ethylbenzene	0.0957	0.00200	"	0.100	95.7	95.7	70-130			
Naphthalene	0.0907	0.00380	"	0.100	90.7	90.7	70-130			
Toluene	0.0910	0.00200	"	0.100	91.0	91.0	70-130			
o-Xylene	0.101	0.00200	"	0.100	101	101	70-130			
m,p-Xylene	0.202	0.00400	"	0.200	101	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	110	110	70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101	101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.6	99.6	70-130			

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Jordan A. Bynon, Project Manager



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Andrew Newberry
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Project: Noble - Kohlhoff USX AB #17-03P

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 B4D1047 - EPA 5030 (soil)

Matrix Spike (B4D1047-MS1)

Source: Y404235-01

Prepared: 04/10/2024 Analyzed: 04/12/2024

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.0996	0.00200	"	0.100	ND	99.6	70-130			
Ethylbenzene	0.0986	0.00200	"	0.100	ND	98.6	70-130			
Naphthalene	0.0874	0.00380	"	0.100	ND	87.4	70-130			
Toluene	0.0934	0.00200	"	0.100	ND	93.4	70-130			
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130			
m,p-Xylene	0.206	0.00400	"	0.200	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	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 B4D1047 - EPA 5030 (soil)

Matrix Spike Dup (B4D1047-MSD1)

Source: Y404235-01

Prepared: 04/10/2024 Analyzed: 04/12/2024

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100	ND	109	70-130	4.30	20	
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130	4.87	20	
Benzene	0.102	0.00200	"	0.100	ND	102	70-130	2.03	20	
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	3.88	20	
Naphthalene	0.0919	0.00380	"	0.100	ND	91.9	70-130	4.95	20	
Toluene	0.0978	0.00200	"	0.100	ND	97.8	70-130	4.56	20	
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130	4.09	20	
m,p-Xylene	0.215	0.00400	"	0.200	ND	108	70-130	4.53	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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Jordan A. Bynon, Project Manager



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Andrew Newberry
Project Number: [none]
Project: Noble - Kohlhoff USX AB #17-03P

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 B4D1102 - EPA 3550B

Blank (B4D1102-BLK1)

Prepared: 04/11/2024 Analyzed: 04/12/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	30		"	24.9		120	50-150			

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Jordan A. Bynon, Project Manager



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Andrew Newberry
Project Number: [none]
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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 B4D1102 - EPA 3550B

LCS (B4D1102-BS1)

Prepared: 04/11/2024 Analyzed: 04/12/2024

Diesel (C10-C28)	1070	50.0	mg/kg	1000	107	70-130				
Residual Range Organics (C28-C40)	1080	200	"	1000	108	70-130				
Surrogate: o-Terphenyl	63		"	49.8	126	50-150				

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Andrew Newberry
Project Number: [none]
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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 B4D1102 - EPA 3550B

Matrix Spike (B4D1102-MS1)

Source: Y404246-05

Prepared: 04/11/2024 Analyzed: 04/12/2024

Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000	ND	113	70-130			
Surrogate: o-Terphenyl	72		"	49.8		145	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D1102 - EPA 3550B

Matrix Spike Dup (B4D1102-MSD1)

Source: Y404246-05

Prepared: 04/11/2024 Analyzed: 04/12/2024

Diesel (C10-C28)	912	50.0	mg/kg	1000	ND	91.2	70-130	10.7	35	
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130	11.8	35	
Surrogate: o-Terphenyl	51		"	49.8		103	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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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 B4D1514 - EPA 3580

Blank (B4D1514-BLK1)

Prepared: 04/15/2024 Analyzed: 04/16/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		98.3	60-130			
Surrogate: Anthracene-d10	180		"	200		92.3	60-130			
Surrogate: Pyrene-d10	180		"	200		91.6	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

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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 - Kohlhoff USX AB #17-03P

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 B4D1514 - EPA 3580

LCS (B4D1514-BS1)

Prepared: 04/15/2024 Analyzed: 04/16/2024

1-Methylnaphthalene	0.200	0.002	mg/kg	0.200		100	70-130			
2-Methylnaphthalene	0.194	0.002	"	0.200		96.9	70-130			
Acenaphthene	0.187	0.020	"	0.200		93.5	70-130			
Anthracene	0.186	0.020	"	0.200		92.9	70-130			
Benzo (a) anthracene	0.209	0.005	"	0.200		104	70-130			
Benzo (a) pyrene	0.190	0.020	"	0.200		95.2	70-130			
Benzo (b) fluoranthene	0.204	0.020	"	0.200		102	70-130			
Benzo (g,h,i) perylene	0.201	0.020	"	0.200		100	70-130			
Benzo (k) fluoranthene	0.214	0.020	"	0.200		107	70-130			
Chrysene	0.185	0.020	"	0.200		92.7	70-130			
Dibenz (a,h) anthracene	0.192	0.020	"	0.200		95.9	70-130			
Fluoranthene	0.213	0.020	"	0.200		107	70-130			
Fluorene	0.191	0.020	"	0.200		95.7	70-130			
Indeno (1,2,3-cd) pyrene	0.239	0.020	"	0.200		120	70-130			
Naphthalene	0.188	0.002	"	0.200		94.1	70-130			
Phenanthrene	0.194	0.020	"	0.200		96.8	70-130			
Pyrene	0.177	0.020	"	0.200		88.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.3	60-130			
Surrogate: Anthracene-d10	220		"	200		109	60-130			
Surrogate: Pyrene-d10	180		"	200		90.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.6	60-130			

Matrix Spike (B4D1514-MS1)

Source: Y404047-01

Prepared: 04/15/2024 Analyzed: 04/16/2024

1-Methylnaphthalene	0.211	0.008	mg/kg	0.200	0.043	83.9	70-130			
2-Methylnaphthalene	0.220	0.008	"	0.200	0.074	73.1	70-130			
Acenaphthene	0.805	0.080	"	0.200	0.443	181	70-130			QM-07
Anthracene	0.643	0.080	"	0.200	0.171	236	70-130			QM-07

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Jordan A. Bynon, Project Manager



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Andrew Newberry
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 Project: Noble - Kohlhoff USX AB #17-03P

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 B4D1514 - EPA 3580

Matrix Spike (B4D1514-MS1)

Source: Y404047-01

Prepared: 04/15/2024 Analyzed: 04/16/2024

Benzo (a) anthracene	0.221	0.020	mg/kg	0.200	0.026	97.3	70-130			
Benzo (a) pyrene	0.156	0.080	"	0.200	ND	77.9	70-130			
Benzo (b) fluoranthene	0.158	0.080	"	0.200	ND	78.9	70-130			
Benzo (g,h,i) perylene	0.170	0.080	"	0.200	0.013	78.4	70-130			
Benzo (k) fluoranthene	0.153	0.080	"	0.200	ND	76.7	70-130			
Chrysene	0.291	0.080	"	0.200	0.168	61.8	70-130			QM-07
Dibenz (a,h) anthracene	0.165	0.080	"	0.200	ND	82.5	70-130			
Fluoranthene	0.358	0.080	"	0.200	0.975	NR	70-130			QM-07
Fluorene	0.840	0.080	"	0.200	0.681	79.2	70-130			
Indeno (1,2,3-cd) pyrene	0.162	0.080	"	0.200	ND	80.8	70-130			
Naphthalene	0.172	0.008	"	0.200	0.009	81.8	70-130			
Phenanthrene	1.69	0.080	"	0.200	1.96	NR	70-130			QM-07
Pyrene	1.95	0.080	"	0.200	2.39	NR	70-130			QM-07
Surrogate: Fluorene-d10	160		ug/kg	200		81.7	60-130			
Surrogate: Anthracene-d10	260		"	200		130	60-130			
Surrogate: Pyrene-d10	170		"	200		83.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130			

Matrix Spike Dup (B4D1514-MSD1)

Source: Y404047-01

Prepared: 04/15/2024 Analyzed: 04/16/2024

1-Methylnaphthalene	0.227	0.002	mg/kg	0.200	0.043	91.9	70-130	7.31	20	
2-Methylnaphthalene	0.265	0.002	"	0.200	0.074	95.4	70-130	18.4	20	
Acenaphthene	0.330	0.020	"	0.200	0.443	NR	70-130	83.6	20	QM-07, QR-DUP
Anthracene	0.302	0.020	"	0.200	0.171	65.5	70-130	72.1	20	QM-07, QR-DUP
Benzo (a) anthracene	0.234	0.005	"	0.200	0.026	104	70-130	5.87	20	
Benzo (a) pyrene	0.175	0.020	"	0.200	ND	87.5	70-130	11.5	20	
Benzo (b) fluoranthene	0.162	0.020	"	0.200	0.001	80.3	70-130	2.40	20	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D1514 - EPA 3580

Matrix Spike Dup (B4D1514-MSD1)

Source: Y404047-01

Prepared: 04/15/2024 Analyzed: 04/16/2024

Benzo (g,h,i) perylene	0.164	0.020	mg/kg	0.200	0.013	75.4	70-130	3.56	20	
Benzo (k) fluoranthene	0.152	0.020	"	0.200	ND	75.9	70-130	0.999	20	
Chrysene	0.244	0.020	"	0.200	0.168	38.1	70-130	17.7	20	QM-07
Dibenz (a,h) anthracene	0.165	0.020	"	0.200	0.002	81.5	70-130	0.302	20	
Fluoranthene	0.369	0.020	"	0.200	0.975	NR	70-130	3.03	20	QM-07
Fluorene	0.373	0.020	"	0.200	0.681	NR	70-130	77.0	20	QM-07, QR-DUP
Indeno (1,2,3-cd) pyrene	0.170	0.020	"	0.200	ND	85.1	70-130	5.15	20	
Naphthalene	0.241	0.002	"	0.200	0.009	116	70-130	33.2	20	QR-DUP
Phenanthrene	0.775	0.020	"	0.200	1.96	NR	70-130	74.3	20	QM-07, QR-DUP
Pyrene	0.996	0.020	"	0.200	2.39	NR	70-130	64.6	20	QM-07, QR-DUP
Surrogate: Fluorene-d10	120		ug/kg	200		59.5	60-130			QM-07
Surrogate: Anthracene-d10	280		"	200		139	60-130			QM-07
Surrogate: Pyrene-d10	160		"	200		77.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.3	60-130			

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Andrew Newberry
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 Project: Noble - Kohlhoff USX AB #17-03P

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 B4D1107 - DTPA Sorbitol Preparation

Blank (B4D1107-BLK1) Prepared: 04/11/2024 Analyzed: 04/12/2024

Boron ND 0.100 mg/L

Duplicate (B4D1107-DUP1) Source: Y404259-01 Prepared: 04/11/2024 Analyzed: 04/12/2024

Boron 0.188 0.0996 mg/L 0.153 20.3 50

Batch B4D1113 - Saturated Paste Metals

Blank (B4D1113-BLK1) Prepared: 04/11/2024 Analyzed: 04/12/2024

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

Duplicate (B4D1113-DUP1) Source: Y404240-02 Prepared: 04/11/2024 Analyzed: 04/12/2024

Calcium PPM 28.0 10.0 mg/L 28.1 0.285 50
 SAR ND 0.0100 SAR 0.445 200
 Magnesium PPM 7.59 10.0 mg/L 7.48 1.46 50
 Sodium PPM 10.7 10.0 " 10.3 4.19 50

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 Project: Noble - Kohlhoff USX AB #17-03P

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 B4D1119 - Saturated Paste pH/EC

Blank (B4D1119-BLK1)

Prepared: 04/11/2024 Analyzed: 04/12/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4D1119-DUP1)

Source: Y404240-02

Prepared: 04/11/2024 Analyzed: 04/12/2024

pH 8.33 pH Units 8.34 0.120 25

Specific Conductance (EC) 0.291 0.00500 mmhos/cm 0.275 5.59 25

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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 - Kohlhoff USX AB #17-03P

Notes and Definitions

- U Sample is Non-Detect.
 - S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
 - QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.
 - 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 at a wet weight basis.

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