



October 04, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Kehn USX AA #01-16

Project Number - [none]

Attached are your analytical results for Noble - Kehn USX AA #01-16 received by Origins Laboratory, Inc. September 21, 2023. This project is associated with Origins project number Y309512-01.

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.

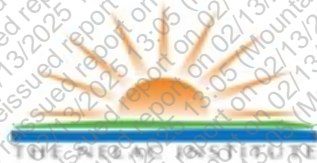
The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Kehn USX AA #01-16

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@7'	Y309512-01	Soil	September 21, 2023 15:00	09/21/2023 16:54

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Kehn USX AA #01-16

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

Origins Work Order: 4309512 Client: Eagle
Client Project ID: Kehn USX AA #01-16
Checklist Completed by: JBY/EMS Shipped Via: HD
Date/time completed: 9/22/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A
Matrix(s) Received: (Check all that apply) Soil/Solid Water Other: _____
Cooler Number/Temperature: 1, 6 °C / 1 °C / _____ °C (Describe)
Thermometer ID: 1004

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 > 12 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +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 be in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JBY

Date/Time Reviewed 9-25-23

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Kehn USX AA #01-16

WH-FS-01@7'

9/21/2023 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309512-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.498		0.0988	mg/L	1	B312512	09/25/2023	09/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B312520	09/25/2023	09/28/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.5%		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B312219	09/22/2023	09/26/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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WH-FS-01@7'

9/21/2023 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309512-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	95.1 %		70-130			B31221 9	09/22/2023	09/26/2023	
Surrogate: Toluene-d8	96.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.92		0.499	meq/L	10	[CALC]	09/25/2023	09/27/2023	
Magnesium	2.14		0.823	"	"	"	"	"	
Sodium	4.09		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B312644	09/26/2023	09/30/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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WH-FS-01@7'

9/21/2023 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309512-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B312644	09/26/2023	09/30/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.3 %		60-130						
Surrogate: Anthracene-d10	110 %		60-130						
Surrogate: Pyrene-d10	90.7 %		60-130						
Surrogate: Benzo (a) pyrene-d12	88.5 %		60-130						

pH in Soil by 9045D

pH	8.13			pH Units	1	B312514	09/25/2023	09/26/2023	
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SAR by 20B Saturated Paste

SAR	2.57		0.0100	SAR	1	B312508	09/25/2023	09/27/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.995		0.00500	mmhos/cm	1	B312514	09/25/2023	09/26/2023	
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Table 915 metals by EPA 6020B

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9/21/2023 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309512-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	6.64		0.0869	mg/kg	10	B312232	09/22/2023	09/27/2023	
Barium	52.5		8.69	"	"	"	"	"	"
Cadmium	0.244		0.0869	"	"	"	"	"	"
Copper	15.7		8.69	"	"	"	"	"	"
Lead	16.7		8.69	"	"	"	"	"	"
Nickel	9.67		8.69	"	"	"	"	"	"
Selenium	0.308		0.0869	"	"	"	"	"	"
Silver	ND		0.0869	"	"	"	"	"	"
Zinc	ND		86.9	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.509	mg/Kg	1	L707068	09/21/2023	09/27/2023	
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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 B312219 - EPA 5030 (soil)

Blank (B312219-BLK1)

Prepared: 09/22/2023 Analyzed: 09/25/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.0	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 B312219 - EPA 5030 (soil)

LCS (B312219-BS1)

Prepared: 09/22/2023 Analyzed: 09/25/2023

1,2,4-Trimethylbenzene	0.0866	0.00200	mg/kg	0.100		86.6	70-130			
1,3,5-Trimethylbenzene	0.0867	0.00200	"	0.100		86.7	70-130			
Benzene	0.0849	0.00200	"	0.100		84.9	70-130			
Ethylbenzene	0.0832	0.00200	"	0.100		83.2	70-130			
Naphthalene	0.0852	0.00380	"	0.100		85.2	70-130			
Toluene	0.0866	0.00200	"	0.100		86.6	70-130			
o-Xylene	0.0834	0.00200	"	0.100		83.4	70-130			
m,p-Xylene	0.169	0.00400	"	0.200		84.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.0	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 B312219 - EPA 5030 (soil)

Matrix Spike (B312219-MS1)

Source: Y309432-01

Prepared: 09/22/2023 Analyzed: 09/25/2023

1,2,4-Trimethylbenzene	0.0916	0.00200	mg/kg	0.100	ND	91.6	70-130			
1,3,5-Trimethylbenzene	0.0909	0.00200	"	0.100	ND	90.9	70-130			
Benzene	0.0854	0.00200	"	0.100	ND	85.4	70-130			
Ethylbenzene	0.0861	0.00200	"	0.100	ND	86.1	70-130			
Naphthalene	0.0821	0.00380	"	0.100	ND	82.1	70-130			
Toluene	0.0869	0.00200	"	0.100	ND	86.9	70-130			
o-Xylene	0.0858	0.00200	"	0.100	ND	85.8	70-130			
m,p-Xylene	0.176	0.00400	"	0.200	ND	87.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	70-130			

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Jordan A. Bynon, Project Manager



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Martin C Eckert III
 Project Number: [none]
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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 B312219 - EPA 5030 (soil)

Matrix Spike Dup (B312219-MSD1)

Source: Y309432-01

Prepared: 09/22/2023 Analyzed: 09/25/2023

1,2,4-Trimethylbenzene	0.0804	0.00200	mg/kg	0.100	ND	80.4	70-130	13.0	20	
1,3,5-Trimethylbenzene	0.0803	0.00200	"	0.100	ND	80.3	70-130	12.4	20	
Benzene	0.0807	0.00200	"	0.100	ND	80.7	70-130	5.66	20	
Ethylbenzene	0.0771	0.00200	"	0.100	ND	77.1	70-130	11.1	20	
Naphthalene	0.0833	0.00380	"	0.100	ND	83.3	70-130	1.45	20	
Toluene	0.0809	0.00200	"	0.100	ND	80.9	70-130	7.15	20	
o-Xylene	0.0784	0.00200	"	0.100	ND	78.4	70-130	9.04	20	
m,p-Xylene	0.156	0.00400	"	0.200	ND	78.1	70-130	11.7	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	70-130			

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Jordan A. Bynon, Project Manager



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Martin C Eckert III
 Project Number: [none]
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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 B312520 - EPA 3550B

Blank (B312520-BLK1)

Prepared: 09/25/2023 Analyzed: 09/27/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		98.3	50-150			

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Jordan A. Bynon, Project Manager



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Martin C Eckert III
 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 B312520 - EPA 3550B

LCS (B312520-BS1)

Prepared: 09/25/2023 Analyzed: 09/28/2023

Diesel (C10-C28)	985	50.0	mg/kg	1000		98.5	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	58		"	49.8		117	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 B312520 - EPA 3550B

Matrix Spike (B312520-MS1)

Source: Y309512-01

Prepared: 09/25/2023 Analyzed: 09/28/2023

Diesel (C10-C28)	957	50.0	mg/kg	1000	ND	95.7	70-130			
Residual Range Organics (C28-C40)	999	200	"	1000	ND	99.9	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.6	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 B312520 - EPA 3550B

Matrix Spike Dup (B312520-MSD1)

Source: Y309512-01

Prepared: 09/25/2023 Analyzed: 09/28/2023

Diesel (C10-C28)	911	50.0	mg/kg	1000	ND	91.1	70-130	5.01	35	
Residual Range Organics (C28-C40)	952	200	"	1000	ND	95.2	70-130	4.82	35	
Surrogate: o-Terphenyl	54		"	49.8		108	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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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 B3I2232 - EPA 3050B

Blank (B3I2232-BLK1)

Prepared: 09/22/2023 Analyzed: 09/27/2023

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

LCS (B3I2232-BS1)

Prepared: 09/22/2023 Analyzed: 09/27/2023

Arsenic	0.0400	0.000100	mg/kg	0.0500		80.0	80-120			
Barium	4.08	0.0100	"	5.00		81.7	80-120			
Cadmium	0.0408	0.000100	"	0.0500		81.6	80-120			
Copper	0.426	0.0100	"	0.500		85.2	80-120			
Lead	0.0402	0.0100	"	0.0500		80.3	80-120			
Nickel	0.0535	0.0100	"	0.0500		107	80-120			
Selenium	0.0507	0.000100	"	0.0500		101	80-120			
Silver	0.0516	0.000100	"	0.0500		103	80-120			
Zinc	0.409	0.100	"	0.500		81.8	80-120			

Matrix Spike (B3I2232-MS1)

Source: Y309457-01

Prepared: 09/22/2023 Analyzed: 09/27/2023

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Kehn USX AA #01-16

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 B3I2232 - EPA 3050B

Matrix Spike (B3I2232-MS1)

Source: Y309457-01

Prepared: 09/22/2023 Analyzed: 09/27/2023

Arsenic	6.37	0.0892	mg/kg	4.46	2.78	80.5	75-125			
Barium	469	8.92	"	446	73.8	88.6	75-125			
Cadmium	4.12	0.0892	"	4.46	0.171	88.6	75-125			
Copper	45.1	8.92	"	44.6	5.68	88.3	75-125			
Lead	10.2	8.92	"	4.46	6.40	85.2	75-125			
Nickel	10.6	8.92	"	4.46	7.20	75.6	75-125			
Selenium	3.83	0.0892	"	4.46	0.110	83.4	75-125			
Silver	3.63	0.0892	"	4.46	0.0343	80.7	75-125			
Zinc	64.9	89.2	"	44.6	28.4	81.9	75-125			

Matrix Spike Dup (B3I2232-MSD1)

Source: Y309457-01

Prepared: 09/22/2023 Analyzed: 09/27/2023

Arsenic	6.70	0.0992	mg/kg	4.96	2.78	79.1	75-125	5.10	20	
Barium	497	9.92	"	496	73.8	85.3	75-125	5.85	20	
Cadmium	4.43	0.0992	"	4.96	0.171	85.9	75-125	7.29	20	
Copper	48.9	9.92	"	49.6	5.68	87.0	75-125	8.10	20	
Lead	10.6	9.92	"	4.96	6.40	85.2	75-125	4.13	20	
Nickel	11.0	9.92	"	4.96	7.20	76.2	75-125	3.79	20	
Selenium	3.89	0.0992	"	4.96	0.110	76.2	75-125	1.60	20	
Silver	3.91	0.0992	"	4.96	0.0343	78.1	75-125	7.36	20	
Zinc	69.1	99.2	"	49.6	28.4	82.0	75-125	6.24	20	

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Kehn USX AA #01-16

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 B312644 - EPA 3580

Blank (B312644-BLK1)

Prepared: 09/26/2023 Analyzed: 09/30/2023

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		98.1	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	190		"	200		97.5	60-130			
Surrogate: Benzo (a) pyrene-d12	170		"	200		86.4	60-130			

LCS (B312644-BS1)

Prepared: 09/26/2023 Analyzed: 09/30/2023

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200		99.5	70-130			
2-Methylnaphthalene	0.193	0.002	"	0.200		96.6	70-130			
Acenaphthene	0.197	0.020	"	0.200		98.3	70-130			
Anthracene	0.185	0.020	"	0.200		92.7	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Kehn USX AA #01-16

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 B3I2644 - EPA 3580

LCS (B3I2644-BS1)

Prepared: 09/26/2023 Analyzed: 09/30/2023

Benzo (a) anthracene	0.199	0.005	mg/kg	0.200		99.3	70-130			
Benzo (a) pyrene	0.191	0.020	"	0.200		95.5	70-130			
Benzo (b) fluoranthene	0.190	0.020	"	0.200		95.0	70-130			
Benzo (g,h,i) perylene	0.196	0.020	"	0.200		97.8	70-130			
Benzo (k) fluoranthene	0.189	0.020	"	0.200		94.6	70-130			
Chrysene	0.207	0.020	"	0.200		104	70-130			
Dibenz (a,h) anthracene	0.173	0.020	"	0.200		86.7	70-130			
Fluoranthene	0.207	0.020	"	0.200		103	70-130			
Fluorene	0.199	0.020	"	0.200		99.3	70-130			
Indeno (1,2,3-cd) pyrene	0.193	0.020	"	0.200		96.5	70-130			
Naphthalene	0.199	0.002	"	0.200		99.4	70-130			
Phenanthrene	0.189	0.020	"	0.200		94.6	70-130			
Pyrene	0.193	0.020	"	0.200		96.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.3	60-130			
Surrogate: Anthracene-d10	190		"	200		94.2	60-130			
Surrogate: Pyrene-d10	180		"	200		91.2	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		90.8	60-130			

Matrix Spike (B3I2644-MS1)

Source: Y309512-01

Prepared: 09/26/2023 Analyzed: 09/30/2023

1-Methylnaphthalene	0.204	0.002	mg/kg	0.200	ND	102	70-130			
2-Methylnaphthalene	0.198	0.002	"	0.200	ND	99.2	70-130			
Acenaphthene	0.202	0.020	"	0.200	ND	101	70-130			
Anthracene	0.192	0.020	"	0.200	ND	96.1	70-130			
Benzo (a) anthracene	0.206	0.005	"	0.200	0.0009	103	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200	0.001	97.1	70-130			
Benzo (b) fluoranthene	0.185	0.020	"	0.200	0.0004	92.5	70-130			
Benzo (g,h,i) perylene	0.201	0.020	"	0.200	0.0008	99.9	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Kehn USX AA #01-16

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 B312644 - EPA 3580

Matrix Spike (B312644-MS1)

Source: Y309512-01

Prepared: 09/26/2023 Analyzed: 09/30/2023

Benzo (k) fluoranthene	0.201	0.020	mg/kg	0.200	0.001	99.8	70-130			
Chrysene	0.210	0.020	"	0.200	0.002	104	70-130			
Dibenz (a,h) anthracene	0.181	0.020	"	0.200	ND	90.5	70-130			
Fluoranthene	0.223	0.020	"	0.200	0.0006	111	70-130			
Fluorene	0.199	0.020	"	0.200	ND	99.3	70-130			
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200	ND	90.8	70-130			
Naphthalene	0.203	0.002	"	0.200	ND	102	70-130			
Phenanthrene	0.209	0.020	"	0.200	ND	104	70-130			
Pyrene	0.197	0.020	"	0.200	0.0005	98.1	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		97.4	60-130			
Surrogate: Anthracene-d10	190		"	200		94.4	60-130			
Surrogate: Pyrene-d10	190		"	200		92.6	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.7	60-130			

Matrix Spike Dup (B312644-MSD1)

Source: Y309512-01

Prepared: 09/26/2023 Analyzed: 09/30/2023

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	ND	103	70-130	1.39	20	
2-Methylnaphthalene	0.203	0.002	"	0.200	ND	102	70-130	2.42	20	
Acenaphthene	0.204	0.020	"	0.200	ND	102	70-130	1.06	20	
Anthracene	0.199	0.020	"	0.200	ND	99.5	70-130	3.48	20	
Benzo (a) anthracene	0.171	0.005	"	0.200	0.0009	85.2	70-130	18.4	20	
Benzo (a) pyrene	0.205	0.020	"	0.200	0.001	102	70-130	4.65	20	
Benzo (b) fluoranthene	0.197	0.020	"	0.200	0.0004	98.4	70-130	6.11	20	
Benzo (g,h,i) perylene	0.206	0.020	"	0.200	0.0008	103	70-130	2.77	20	
Benzo (k) fluoranthene	0.201	0.020	"	0.200	0.001	100	70-130	0.293	20	
Chrysene	0.213	0.020	"	0.200	0.002	106	70-130	1.27	20	
Dibenz (a,h) anthracene	0.189	0.020	"	0.200	ND	94.6	70-130	4.44	20	
Fluoranthene	0.229	0.020	"	0.200	0.0006	114	70-130	2.47	20	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Kehn USX AA #01-16

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 B312644 - EPA 3580

Matrix Spike Dup (B312644-MSD1)

Source: Y309512-01

Prepared: 09/26/2023 Analyzed: 09/30/2023

Fluorene	0.203	0.020	mg/kg	0.200	ND	102	70-130	2.23	20	
Indeno (1,2,3-cd) pyrene	0.177	0.020	"	0.200	ND	88.5	70-130	2.60	20	
Naphthalene	0.211	0.002	"	0.200	ND	105	70-130	3.69	20	
Phenanthrene	0.214	0.020	"	0.200	ND	107	70-130	2.48	20	
Pyrene	0.187	0.020	"	0.200	0.0005	93.1	70-130	5.23	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.3	60-130			
Surrogate: Anthracene-d10	210		"	200		107	60-130			
Surrogate: Pyrene-d10	180		"	200		88.0	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.5	60-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Kehn USX AA #01-16

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 B3I2508 - Saturated Paste Metals

Blank (B3I2508-BLK1)

Prepared: 09/25/2023 Analyzed: 09/27/2023

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

Duplicate (B3I2508-DUP1)

Source: Y309398-01

Prepared: 09/25/2023 Analyzed: 09/27/2023

SAR	ND	0.0100	SAR	5.04				200		
Calcium PPM	16.1	10.0	mg/L	11.8				30.8	50	
Magnesium PPM	3.73	10.0	"	2.55				37.6	50	
Sodium PPM	123	10.0	"	73.4				50.5	50	QR-DUP

Batch B3I2512 - DTPA Sorbitol Preparation

Blank (B3I2512-BLK1)

Prepared: 09/25/2023 Analyzed: 09/26/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3I2512-DUP1)

Source: Y309432-01

Prepared: 09/25/2023 Analyzed: 09/26/2023

Boron	0.849	0.100	mg/L	1.01				17.6	50	
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Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Kehn USX AA #01-16

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 B3I2514 - Saturated Paste pH/EC

Blank (B3I2514-BLK1)

Prepared: 09/25/2023 Analyzed: 09/26/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3I2514-DUP1)

Source: Y309398-01

Prepared: 09/25/2023 Analyzed: 09/26/2023

pH	8.48		pH Units	8.52		0.471	25
Specific Conductance (EC)	0.441	0.00500	mmhos/cm	0.423		4.31	25

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Kehn USX AA #01-16

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L707068 -

DUP (L 86577-DUP)

Source: 86577

Prepared: Analyzed: 09/27/2023

Chromium, Hexavalent	ND	0.515	mg/Kg		<0.515	-	0	20	
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MS (L 86577-MS)

Source: 86577

Prepared: Analyzed: 09/27/2023

Chromium, Hexavalent	35	2.5	mg/Kg	39.3	<1.22	89	75-125		
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LCS (LCS)

Prepared: Analyzed: 09/27/2023

Chromium, Hexavalent	7.18	0.5	mg/Kg	8		90	75-125		
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LRB (LRB)

Prepared: Analyzed: 09/27/2023

Chromium, Hexavalent	ND	0.5	mg/Kg			-			
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Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Kehn USX AA #01-16

Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager