



January 15, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - HSR - Albertstein #16-23 Project Number - [none]

Attached are your analytical results for Noble - HSR - Albertstein #16-23 received by Origins Laboratory, Inc. December 13, 2023. This project is associated with Origins project number Y312370-01.

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.

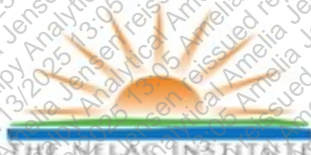
The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

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 - HSR - Albertstein #16-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y312370-01	Soil	December 13, 2023 8:30	12/13/2023 11:53
Background-01@2'	Y312370-02	Soil	December 13, 2023 8:00	12/13/2023 11:53

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 - HSR - Albertstein #16-23

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

Sample Receipt Checklist


Origins Work Order: Y312370 Client: Eagle
 Client Project ID: HSR - Albertstein
 Checklist Completed by: JSH Shipped Via: HD # HLU-23
 Date/time completed: 12/13/13 (Via: FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 125 °C / _____ °C / _____ °C / _____ °C
 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 (41°F)?	X			
Is there ice present (document if blue ice is used)?	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			X	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			X	
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTS due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water - is there headspace (≥ ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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 analysis 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)			X	
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: JSH (Project Manager) Date/Time Reviewed: 12/14/13

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Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

WH-FS-01@6'
12/13/2023 8:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312370-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B3L1517	12/15/2023	12/18/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L1402	12/14/2023	12/15/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 91.9% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L1602	12/16/2023	12/22/2023	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@6'
 12/13/2023 8:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312370-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			B3L16 02	12/16/2023	12/22/2023	
Surrogate: Toluene-d8	97.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	120 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.23		0.499	meq/L	10	[CALC]	12/14/2023	12/15/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L1418	12/14/2023	12/16/2023	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@6'
12/13/2023 8:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312370-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B3L1418	12/14/2023	12/16/2023	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %	60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	95.7 %	60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	98.0 %	60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.35	pH Units	1	B3L1416	12/14/2023	12/15/2023
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SAR by 20B Saturated Paste

SAR	0.114	0.0100	SAR	1	B3L1413	12/14/2023	12/15/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.276	0.00500	mmhos/cm	1	B3L1416	12/14/2023	12/15/2023
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Total Metals by 6020B

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WH-FS-01@6'
12/13/2023 8:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y312370-01 (Soil)

Total Metals by 6020B

Arsenic	0.77	0.0855	0.25	mg/Kg	5	L724504	12/22/2023	01/11/2024	
Barium	41.3	0.042	0.25	"	"	"	"	"	
Cadmium	0.0341	0.026	0.25	"	"	"	"	"	J
Copper	3.12	0.0805	0.25	"	"	"	"	"	
Lead	4.22	0.031	0.25	"	"	"	"	"	
Nickel	3.4	0.0635	0.25	"	"	"	"	"	
Selenium	0.29	0.103	0.25	"	"	"	"	"	
Silver	0.0213	0.0067	0.25	"	"	"	"	"	J
Zinc	14.8	0.535	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L724337	12/13/2023	12/22/2023	
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Background-01@2'
12/13/2023 8:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312370-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B3L1517	12/15/2023	12/18/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	12/14/2023	12/15/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.22			pH Units	1	B3L1416	12/14/2023	12/15/2023	
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SAR by 20B Saturated Paste

SAR	0.207		0.0100	SAR	1	B3L1413	12/14/2023	12/15/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0829		0.00500	mmhos/cm	1	B3L1416	12/14/2023	12/15/2023	
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Total Metals by 6020B

Arsenic	1.22	0.0855	0.25	mg/Kg	5	L724504	12/22/2023	01/11/2024	
Barium	47.2	0.042	0.25	"	"	"	"	"	
Cadmium	0.061	0.026	0.25	"	"	"	"	"	J

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Background-01@2'
12/13/2023 8:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y312370-02 (Soil)

Total Metals by 6020B

Copper	3.49	0.0805	0.25	mg/Kg	5	L724504	12/22/2023	01/11/2024	
Lead	4.37	0.031	0.25	"	"	"	"	"	"
Nickel	4.07	0.0635	0.25	"	"	"	"	"	"
Selenium	0.342	0.103	0.25	"	"	"	"	"	"
Silver	0.0238	0.0067	0.25	"	"	"	"	"	J
Zinc	18.6	0.535	2.5	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L724337	12/13/2023	12/22/2023	
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Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

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 B3L1402 - EPA 3550B

Prepared: 12/14/2023 Analyzed: 12/15/2023

Blank (B3L1402-BLK1)

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		95.1	50-150			

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

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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 B3L1402 - EPA 3550B

LCS (B3L1402-BS1)

Prepared: 12/14/2023 Analyzed: 12/15/2023

Diesel (C10-C28)	873	50.0	mg/kg	1000		87.3	70-130			
Residual Range Organics (C28-C40)	944	200	"	1000		94.4	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.6	50-150			

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Andrew Newberry
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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 B3L1402 - EPA 3550B

Matrix Spike (B3L1402-MS1)

Source: Y312359-01

Prepared: 12/14/2023 Analyzed: 12/15/2023

Diesel (C10-C28)	2570	50.0	mg/kg	1000	1180	140	70-130			QM-07
Residual Range Organics (C28-C40)	2040	200	"	1000	788	125	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.2	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 B3L1402 - EPA 3550B

Matrix Spike Dup (B3L1402-MSD1)

Source: Y312359-01

Prepared: 12/14/2023 Analyzed: 12/15/2023

Diesel (C10-C28)	2360	50.0	mg/kg	1000	1180	118	70-130	8.78	35	
Residual Range Organics (C28-C40)	1950	200	"	1000	788	116	70-130	4.47	35	
Surrogate: o-Terphenyl	44		"	49.8		88.5	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 B3L1602 - EPA 5030 (soil)

Prepared: 12/16/2023 Analyzed: 12/22/2023

Blank (B3L1602-BLK1)

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		116	70-130			

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Jordan A. Bynon, Project Manager



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Andrew Newberry
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 Project: Noble - HSR - Albertstein #16-23

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 B3L1602 - EPA 5030 (soil)

LCS (B3L1602-BS1)

Prepared: 12/16/2023 Analyzed: 12/22/2023

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.0984	0.00200	"	0.100		98.4	70-130			
Benzene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Naphthalene	0.108	0.00380	"	0.100		108	70-130			
Toluene	0.0960	0.00200	"	0.100		96.0	70-130			
o-Xylene	0.115	0.00200	"	0.100		115	70-130			
m,p-Xylene	0.230	0.00400	"	0.200		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3L1602 - EPA 5030 (soil)

Matrix Spike (B3L1602-MS1)

Source: Y312369-01

Prepared: 12/16/2023 Analyzed: 12/22/2023

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.0942	0.00200	"	0.100	ND	94.2	70-130			
Benzene	0.103	0.00200	"	0.100	ND	103	70-130			
Ethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130			
Naphthalene	0.102	0.00380	"	0.100	ND	102	70-130			
Toluene	0.0916	0.00200	"	0.100	ND	91.6	70-130			
o-Xylene	0.110	0.00200	"	0.100	ND	110	70-130			
m,p-Xylene	0.220	0.00400	"	0.200	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	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 B3L1602 - EPA 5030 (soil)

Matrix Spike Dup (B3L1602-MSD1)

Source: Y312369-01

Prepared: 12/16/2023 Analyzed: 12/22/2023

1,2,4-Trimethylbenzene	0.0991	0.00200	mg/kg	0.100	ND	99.1	70-130	3.00	20	
1,3,5-Trimethylbenzene	0.0903	0.00200	"	0.100	ND	90.3	70-130	4.29	20	
Benzene	0.103	0.00200	"	0.100	ND	103	70-130	0.136	20	
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	4.07	20	
Naphthalene	0.106	0.00380	"	0.100	ND	106	70-130	4.33	20	
Toluene	0.0903	0.00200	"	0.100	ND	90.3	70-130	1.47	20	
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130	1.73	20	
m,p-Xylene	0.214	0.00400	"	0.200	ND	107	70-130	3.02	20	
Surrogate: 1,2-Dichloroethane-d4	0.14	"	"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12	"	"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.14	"	"	0.125		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 - HSR - Albertstein #16-23

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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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 B3L1418 - EPA 3580

Blank (B3L1418-BLK1)

Prepared: 12/14/2023 Analyzed: 12/16/2023

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	220		ug/kg	200		108	60-130			
Surrogate: Anthracene-d10	190		"	200		95.4	60-130			
Surrogate: Pyrene-d10	190		"	200		95.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	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

Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

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 B3L1418 - EPA 3580

LCS (B3L1418-BS1)

Prepared: 12/14/2023 Analyzed: 12/16/2023

1-Methylnaphthalene	0.200	0.002	mg/kg	0.200		100	70-130			
2-Methylnaphthalene	0.199	0.002	"	0.200		99.3	70-130			
Acenaphthene	0.187	0.020	"	0.200		93.5	70-130			
Anthracene	0.168	0.020	"	0.200		84.1	70-130			
Benzo (a) anthracene	0.186	0.005	"	0.200		92.9	70-130			
Benzo (a) pyrene	0.194	0.020	"	0.200		97.2	70-130			
Benzo (b) fluoranthene	0.178	0.020	"	0.200		88.8	70-130			
Benzo (g,h,i) perylene	0.202	0.020	"	0.200		101	70-130			
Benzo (k) fluoranthene	0.166	0.020	"	0.200		82.9	70-130			
Chrysene	0.169	0.020	"	0.200		84.6	70-130			
Dibenz (a,h) anthracene	0.200	0.020	"	0.200		100	70-130			
Fluoranthene	0.195	0.020	"	0.200		97.4	70-130			
Fluorene	0.197	0.020	"	0.200		98.3	70-130			
Indeno (1,2,3-cd) pyrene	0.221	0.020	"	0.200		110	70-130			
Naphthalene	0.194	0.002	"	0.200		96.8	70-130			
Phenanthrene	0.177	0.020	"	0.200		88.5	70-130			
Pyrene	0.174	0.020	"	0.200		86.9	70-130			
Surrogate: Fluorene-d10	220		ug/kg	200		108	60-130			
Surrogate: Anthracene-d10	190		"	200		96.2	60-130			
Surrogate: Pyrene-d10	190		"	200		93.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Matrix Spike (B3L1418-MS1)

Source: Y312350-01

Prepared: 12/14/2023 Analyzed: 12/16/2023

1-Methylnaphthalene	0.205	0.002	mg/kg	0.200	ND	103	70-130			
2-Methylnaphthalene	0.204	0.002	"	0.200	ND	102	70-130			
Acenaphthene	0.191	0.020	"	0.200	ND	95.7	70-130			
Anthracene	0.201	0.020	"	0.200	ND	100	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 - HSR - Albertstein #16-23

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 B3L1418 - EPA 3580

Matrix Spike (B3L1418-MS1)

Source: Y312350-01

Prepared: 12/14/2023 Analyzed: 12/16/2023

Benzo (a) anthracene	0.207	0.005	mg/kg	0.200	ND	103	70-130			
Benzo (a) pyrene	0.201	0.020	"	0.200	ND	100	70-130			
Benzo (b) fluoranthene	0.183	0.020	"	0.200	ND	91.7	70-130			
Benzo (g,h,i) perylene	0.213	0.020	"	0.200	ND	106	70-130			
Benzo (k) fluoranthene	0.168	0.020	"	0.200	ND	83.8	70-130			
Chrysene	0.177	0.020	"	0.200	ND	88.7	70-130			
Dibenz (a,h) anthracene	0.206	0.020	"	0.200	ND	103	70-130			
Fluoranthene	0.197	0.020	"	0.200	0.002	97.7	70-130			
Fluorene	0.205	0.020	"	0.200	ND	102	70-130			
Indeno (1,2,3-cd) pyrene	0.226	0.020	"	0.200	ND	113	70-130			
Naphthalene	0.200	0.002	"	0.200	ND	100	70-130			
Phenanthrene	0.180	0.020	"	0.200	ND	89.8	70-130			
Pyrene	0.180	0.020	"	0.200	ND	89.9	70-130			
Surrogate: Fluorene-d10	220		ug/kg	200		108	60-130			
Surrogate: Anthracene-d10	190		"	200		93.3	60-130			
Surrogate: Pyrene-d10	190		"	200		94.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike Dup (B3L1418-MSD1)

Source: Y312350-01

Prepared: 12/14/2023 Analyzed: 12/16/2023

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	ND	99.4	70-130	3.20	20	
2-Methylnaphthalene	0.191	0.002	"	0.200	ND	95.3	70-130	6.54	20	
Acenaphthene	0.186	0.020	"	0.200	ND	92.9	70-130	2.91	20	
Anthracene	0.191	0.020	"	0.200	ND	95.7	70-130	4.65	20	
Benzo (a) anthracene	0.207	0.005	"	0.200	ND	103	70-130	0.133	20	
Benzo (a) pyrene	0.195	0.020	"	0.200	ND	97.7	70-130	2.58	20	
Benzo (b) fluoranthene	0.172	0.020	"	0.200	ND	86.1	70-130	6.33	20	
Benzo (g,h,i) perylene	0.203	0.020	"	0.200	ND	102	70-130	4.57	20	

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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

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 B3L1418 - EPA 3580

Matrix Spike Dup (B3L1418-MSD1)

Source: Y312350-01

Prepared: 12/14/2023 Analyzed: 12/16/2023

Benzo (k) fluoranthene	0.177	0.020	mg/kg	0.200	ND	88.4	70-130	5.42	20	
Chrysene	0.185	0.020	"	0.200	ND	92.6	70-130	4.21	20	
Dibenz (a,h) anthracene	0.195	0.020	"	0.200	ND	97.3	70-130	5.48	20	
Fluoranthene	0.192	0.020	"	0.200	0.002	95.4	70-130	2.42	20	
Fluorene	0.207	0.020	"	0.200	ND	103	70-130	0.984	20	
Indeno (1,2,3-cd) pyrene	0.216	0.020	"	0.200	ND	108	70-130	4.50	20	
Naphthalene	0.188	0.002	"	0.200	ND	94.0	70-130	6.17	20	
Phenanthrene	0.175	0.020	"	0.200	ND	87.3	70-130	2.88	20	
Pyrene	0.173	0.020	"	0.200	ND	86.7	70-130	3.57	20	
Surrogate: Fluorene-d10	220		ug/kg	200		108	60-130			
Surrogate: Anthracene-d10	190		"	200		94.6	60-130			
Surrogate: Pyrene-d10	190		"	200		94.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	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

Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

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 B3L1413 - Saturated Paste Metals

Blank (B3L1413-BLK1)

Prepared: 12/14/2023 Analyzed: 12/15/2023

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 (B3L1413-DUP1)

Source: Y312355-01

Prepared: 12/14/2023 Analyzed: 12/15/2023

Calcium PPM	24.8	10.0	mg/L		24.8			0.00	50	
SAR	ND	0.0100	SAR		0.0993				200	
Magnesium PPM	4.83	10.0	mg/L		4.93			2.05	50	
Sodium PPM	1.96	10.0	"		2.07			5.46	50	

Batch B3L1517 - DTPA Sorbitol Preparation

Blank (B3L1517-BLK1)

Prepared: 12/15/2023 Analyzed: 12/18/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3L1517-DUP1)

Source: Y312365-01

Prepared: 12/15/2023 Analyzed: 12/18/2023

Boron	0.505	0.0989	mg/L		0.485			4.02	50	
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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 - HSR - Albertstein #16-23

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 B3L1416 - Saturated Paste pH/EC

Blank (B3L1416-BLK1)

Prepared: 12/14/2023 Analyzed: 12/15/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3L1416-DUP1)

Source: Y312355-01

Prepared: 12/14/2023 Analyzed: 12/15/2023

Specific Conductance (EC)	0.214	0.00500	mmhos/cm	0.219	2.59	25
pH	8.26		pH Units	8.25	0.121	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

Andrew Newberry
 Project Number: [none]
 Project: Noble - HSR - Albertstein #16-23

Total Metals by 6020B - 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 L724504 - 3050B

MSD (L 86302-MSD-L724504)

Source: 86302

Prepared: 12/22/2023 Analyzed: 01/11/2024

Lead	14.4	0.25	mg/Kg	2.5	15.5	0	75-125	6	80	1*
Nickel	4.9	0.25	"	2.5	3.71	48	75-125	3.3	80	*
Selenium	4.58	0.25	"	4.99	0.576	80	75-125	11.5	80	
Silver	0.415	0.25	"	0.499	0.0197	79	75-125	8.5	80	
Zinc	36.4	2.5	"	25	20.4	64	75-125	5.6	80	*
Copper	5.38	0.25	"	2.5	4.47	36	75-125	3.7	80	*
Cadmium	0.511	0.25	"	0.499	0.13	76	75-125	5.8	80	
Barium	44.3	0.25	"	4.99	48	0	75-125	7.2	80	1*
Arsenic	2.72	0.25	"	2.5	1.09	65	75-125	6.8	80	*

MS (L 86302-MS-L724504)

Source: 86302

Prepared: 12/22/2023 Analyzed: 01/11/2024

Cadmium	0.482	0.25	mg/Kg	0.464	0.13	76	75-125			
Copper	5.18	0.25	"	2.32	4.47	31	75-125			*
Lead	15.3	0.25	"	2.32	15.5	0	75-125			1*
Barium	41.2	0.25	"	4.64	48	0	75-125			1*
Arsenic	2.54	0.25	"	2.32	1.09	62	75-125			1*
Nickel	4.74	0.25	"	2.32	3.71	44	75-125			*
Selenium	4.08	0.25	"	4.64	0.576	75	75-125			
Silver	0.381	0.25	"	0.464	0.0197	78	75-125			
Zinc	34.4	2.5	"	23.2	20.4	60	75-125			*

LCS (LCS-L724504)

Prepared: 12/22/2023 Analyzed: 01/12/2024

Barium	4.74	0.25	mg/Kg	5		95	80-120			
Zinc	22.2	2.5	"	25		89	80-120			
Arsenic	2.36	0.25	"	2.5		94	80-120			
Silver	0.464	0.25	"	0.5		93	80-120			
Cadmium	0.449	0.25	"	0.5		90	80-120			

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 - HSR - Albertstein #16-23

Total Metals by 6020B - 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 L724504 - 3050B

LCS (LCS-L724504)

Prepared: 12/22/2023 Analyzed: 01/12/2024

Copper	2.3	0.25	mg/Kg	2.5	92	80-120
Lead	2.43	0.25	"	2.5	97	80-120
Nickel	2.25	0.25	"	2.5	90	80-120
Selenium	4.65	0.25	"	5	93	80-120

LRB (LRB-L724504)

Prepared: 12/22/2023 Analyzed: 01/11/2024

Lead	ND	0.25	mg/Kg	-	-	-
Selenium	ND	0.25	"	-	-	-
Silver	ND	0.25	"	-	-	-
Nickel	ND	0.25	"	-	-	-
Arsenic	ND	0.25	"	-	-	-
Barium	ND	0.25	"	-	-	-
Cadmium	ND	0.25	"	-	-	-
Copper	ND	0.25	"	-	-	-
Zinc	ND	2.5	"	-	-	-

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 - HSR - Albertstein #16-23

**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 L724337 -

DUP (L 86294-DUP)

Source: Y312370-01

Prepared: Analyzed: 12/22/2023

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
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MS (L 86294-MS)

Source: Y312370-01

Prepared: Analyzed: 12/22/2023

Chromium, Hexavalent	35.8	2.5	mg/Kg	39.2	<1.22	91	75-125			
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LCS (LCS)

Prepared: Analyzed: 12/22/2023

Chromium, Hexavalent	6.76	0.5	mg/Kg	8		85	75-125			
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LRB (LRB)

Prepared: Analyzed: 12/22/2023

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

Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Albertstein #16-23

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.
 - J Estimated Value. Analyte below reported quantitation limit.
 - [* [Undefined]
 - * 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.
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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