



November 27, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Irvine #2-11

Project Number - [none]

Attached are your analytical results for Noble - Irvine #2-11 received by Origins Laboratory, Inc. November 08, 2023. This project is associated with Origins project number Y311242-01.

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.

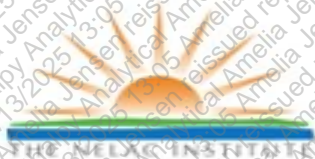
The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

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 - Irvine #2-11

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@8'	Y311242-01	Soil	November 8, 2023 11:40	11/08/2023 16:14

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 - Irvine #2-11

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

Sample Receipt Checklist

Origins Work Order: 4311242 Client: Eagle
 Checklist Completed by: CMS Client Project ID: Irvine #2-11
 Date/time completed: 11/8/23 Shipped Via: 1D
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 15.6 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: 7004

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"/>			
Is there ice present (document if blue ice is used)?	<input checked="" 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"/>			
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"/>			
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" 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"/>			
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 HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 11/10/23

Origins Laboratory, Inc.
[Signature]

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Irvine #2-11

WH-FS-01@8'
11/8/2023 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311242-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.388		0.100	mg/L	1	B3K1022	11/10/2023	11/14/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K1001	11/10/2023	11/13/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 83.5% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K0904	11/10/2023	11/10/2023	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@8'
11/8/2023 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311242-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	132 %		70-130			B3K09 04	11/10/2023	11/10/2023	GC
Surrogate: Toluene-d8	100 %		70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	98.2 %		70-130			"	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	18.6		0.499	meq/L	10	[CALC]	11/10/2023	11/13/2023	
Magnesium	11.5		0.823	"	"	"	"	"	
Sodium	4.37		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3K1031	11/10/2023	11/16/2023	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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Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311242-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B3K1031	11/10/2023	11/16/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.2 %		60-130			"	"	"	
Surrogate: Anthracene-d10	104 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.8 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.2 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.09			pH Units	1	B3K1026	11/10/2023	11/11/2023	
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SAR by 20B Saturated Paste

SAR	1.13		0.0100	SAR	1	B3K1018	11/10/2023	11/13/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.74		0.00500	mmhos/cm	1	B3K1026	11/10/2023	11/11/2023	
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Table 915 metals by EPA 6020B

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WH-FS-01@8'
11/8/2023 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311242-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.55		0.0919	mg/kg	10	B3K1421	11/16/2023	11/17/2023	
Barium	63.0		9.19	"	"	"	"	"	"
Cadmium	0.204		0.0919	"	"	"	"	"	"
Copper	11.9		9.19	"	"	"	"	"	"
Lead	10.2		9.19	"	"	"	"	"	"
Nickel	11.3		9.19	"	"	"	"	"	"
Selenium	0.194		0.0919	"	"	"	"	"	"
Silver	ND		0.0919	"	"	"	"	"	"
Zinc	ND		91.9	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L716849	11/08/2023	11/14/2023	
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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 B3K0904 - EPA 5030 (soil)

Blank (B3K0904-BLK1)

Prepared: 11/10/2023 Analyzed: 11/10/2023

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	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	70-130			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K0904 - EPA 5030 (soil)

LCS (B3K0904-BS1)

Prepared: 11/10/2023 Analyzed: 11/10/2023

1,2,4-Trimethylbenzene	0.0947	0.00200	mg/kg	0.100		94.7	70-130			
1,3,5-Trimethylbenzene	0.0950	0.00200	"	0.100		95.0	70-130			
Benzene	0.0827	0.00200	"	0.100		82.7	70-130			
Ethylbenzene	0.0891	0.00200	"	0.100		89.1	70-130			
Naphthalene	0.0887	0.00380	"	0.100		88.7	70-130			
Toluene	0.0883	0.00200	"	0.100		88.3	70-130			
o-Xylene	0.0979	0.00200	"	0.100		97.9	70-130			
m,p-Xylene	0.189	0.00400	"	0.200		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.0	70-130			

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Irvine #2-11

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 B3K0904 - EPA 5030 (soil)

Matrix Spike (B3K0904-MS1)

Source: Y311228-01

Prepared: 11/10/2023 Analyzed: 11/10/2023

1,2,4-Trimethylbenzene	0.0811	0.00200	mg/kg	0.100	ND	81.1	70-130			
1,3,5-Trimethylbenzene	0.0800	0.00200	"	0.100	ND	80.0	70-130			
Benzene	0.0725	0.00200	"	0.100	ND	72.5	70-130			
Ethylbenzene	0.0750	0.00200	"	0.100	ND	75.0	70-130			
Naphthalene	0.123	0.00380	"	0.100	0.0265	96.1	70-130			
Toluene	0.0789	0.00200	"	0.100	ND	78.9	70-130			
o-Xylene	0.0856	0.00200	"	0.100	ND	85.6	70-130			
m,p-Xylene	0.162	0.00400	"	0.200	ND	81.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.125		136	70-130			S-CC
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.3	70-130			

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 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 B3K0904 - EPA 5030 (soil)

Matrix Spike Dup (B3K0904-MSD1)

Source: Y311228-01

Prepared: 11/10/2023 Analyzed: 11/10/2023

1,2,4-Trimethylbenzene	0.0820	0.00200	mg/kg	0.100	ND	82.0	70-130	1.10	20	
1,3,5-Trimethylbenzene	0.0829	0.00200	"	0.100	ND	82.9	70-130	3.63	20	
Benzene	0.0735	0.00200	"	0.100	ND	73.5	70-130	1.40	20	
Ethylbenzene	0.0780	0.00200	"	0.100	ND	78.0	70-130	3.87	20	
Naphthalene	0.127	0.00380	"	0.100	0.0265	100	70-130	3.40	20	
Toluene	0.0791	0.00200	"	0.100	ND	79.1	70-130	0.329	20	
o-Xylene	0.0883	0.00200	"	0.100	ND	88.3	70-130	3.15	20	
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.4	70-130	2.92	20	
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.125		132	70-130			S-GC
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	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 B3K1001 - EPA 3550B

Blank (B3K1001-BLK1)

Prepared: 11/10/2023 Analyzed: 11/13/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		88.0	50-150			

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

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 Project Number: [none]
 Project: Noble - Irvine #2-11

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 B3K1001 - EPA 3550B

LCS (B3K1001-BS1)

Prepared: 11/10/2023 Analyzed: 11/13/2023

Diesel (C10-C28)	992	50.0	mg/kg	1000		99.2	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.7	50-150			

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Jordan A. Bynon, Project Manager



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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 B3K1001 - EPA 3550B

Matrix Spike (B3K1001-MS1)

Source: Y311228-01

Prepared: 11/10/2023 Analyzed: 11/13/2023

Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	70-130			
Residual Range Organics (C28-C40)	1180	200	"	1000	ND	118	70-130			
Surrogate: o-Terphenyl	59		"	49.8		118	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 B3K1001 - EPA 3550B

Matrix Spike Dup (B3K1001-MSD1)

Source: Y311228-01

Prepared: 11/10/2023 Analyzed: 11/13/2023

Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130	5.99	35	
Residual Range Organics (C28-C40)	1110	200	"	1000	ND	111	70-130	6.11	35	
Surrogate: o-Terphenyl	55		"	49.8		111	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 B3K1421 - EPA 3050B

Blank (B3K1421-BLK1)

Prepared: 11/16/2023 Analyzed: 11/17/2023

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 (B3K1421-BS1)

Prepared: 11/16/2023 Analyzed: 11/17/2023

Arsenic	0.0553	0.000100	mg/kg	0.0500		111	80-120			
Barium	5.41	0.0100	"	5.00		108	80-120			
Cadmium	0.0550	0.000100	"	0.0500		110	80-120			
Copper	0.530	0.0100	"	0.500		106	80-120			
Lead	0.0534	0.0100	"	0.0500		107	80-120			
Nickel	0.0528	0.0100	"	0.0500		106	80-120			
Selenium	0.0533	0.000100	"	0.0500		107	80-120			
Silver	0.0539	0.000100	"	0.0500		108	80-120			
Zinc	0.518	0.100	"	0.500		104	80-120			

Matrix Spike (B3K1421-MS1)

Source: Y311232-12

Prepared: 11/16/2023 Analyzed: 11/17/2023

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Irvine #2-11

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 B3K1421 - EPA 3050B

Matrix Spike (B3K1421-MS1)

Source: Y311232-12

Prepared: 11/16/2023 Analyzed: 11/17/2023

Arsenic	8.96	0.0834	mg/kg	4.17	5.03	94.3	75-125			
Barium	609	8.34	"	417	128	115	75-125			
Cadmium	4.93	0.0834	"	4.17	0.188	114	75-125			
Copper	53.8	8.34	"	41.7	13.2	97.4	75-125			
Lead	15.0	8.34	"	4.17	11.9	74.2	75-125			QM-07
Nickel	16.0	8.34	"	4.17	12.9	73.6	75-125			QM-07
Selenium	4.33	0.0834	"	4.17	0.126	101	75-125			
Silver	4.65	0.0834	"	4.17	0.0538	110	75-125			
Zinc	86.0	83.4	"	41.7	49.5	87.3	75-125			

Matrix Spike Dup (B3K1421-MSD1)

Source: Y311232-12

Prepared: 11/16/2023 Analyzed: 11/17/2023

Arsenic	10.1	0.0913	mg/kg	4.57	5.03	111	75-125	11.8	20	
Barium	656	9.13	"	457	128	116	75-125	7.47	20	
Cadmium	5.47	0.0913	"	4.57	0.188	116	75-125	10.4	20	
Copper	60.8	9.13	"	45.7	13.2	104	75-125	12.3	20	
Lead	17.0	9.13	"	4.57	11.9	113	75-125	12.9	20	
Nickel	17.7	9.13	"	4.57	12.9	104	75-125	9.96	20	
Selenium	4.70	0.0913	"	4.57	0.126	100	75-125	8.35	20	
Silver	5.13	0.0913	"	4.57	0.0538	111	75-125	9.80	20	
Zinc	95.9	91.3	"	45.7	49.5	102	75-125	11.0	20	

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Irvine #2-11

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 B3K1031 - EPA 3580

Blank (B3K1031-BLK1)

Prepared: 11/10/2023 Analyzed: 11/16/2023

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	200		ug/kg	200		99.8	60-130			
Surrogate: Anthracene-d10	190		"	200		96.2	60-130			
Surrogate: Pyrene-d10	190		"	200		95.0	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.4	60-130			

LCS (B3K1031-BS1)

Prepared: 11/10/2023 Analyzed: 11/16/2023

1-Methylnaphthalene	0.211	0.002	mg/kg	0.200		105	70-130			
2-Methylnaphthalene	0.211	0.002	"	0.200		105	70-130			
Acenaphthene	0.208	0.020	"	0.200		104	70-130			
Anthracene	0.191	0.020	"	0.200		95.3	70-130			

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Irvine #2-11

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 B3K1031 - EPA 3580

LCS (B3K1031-BS1)

Prepared: 11/10/2023 Analyzed: 11/16/2023

Benzo (a) anthracene	0.177	0.005	mg/kg	0.200		88.6	70-130			
Benzo (a) pyrene	0.206	0.020	"	0.200		103	70-130			
Benzo (b) fluoranthene	0.188	0.020	"	0.200		94.2	70-130			
Benzo (g,h,i) perylene	0.219	0.020	"	0.200		110	70-130			
Benzo (k) fluoranthene	0.240	0.020	"	0.200		120	70-130			
Chrysene	0.192	0.020	"	0.200		95.8	70-130			
Dibenz (a,h) anthracene	0.208	0.020	"	0.200		104	70-130			
Fluoranthene	0.236	0.020	"	0.200		118	70-130			
Fluorene	0.210	0.020	"	0.200		105	70-130			
Indeno (1,2,3-cd) pyrene	0.216	0.020	"	0.200		108	70-130			
Naphthalene	0.213	0.002	"	0.200		106	70-130			
Phenanthrene	0.204	0.020	"	0.200		102	70-130			
Pyrene	0.192	0.020	"	0.200		96.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.6	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	190		"	200		94.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike (B3K1031-MS1)

Source: Y310740-02

Prepared: 11/10/2023 Analyzed: 11/16/2023

1-Methylnaphthalene	0.341	0.002	mg/kg	0.200	0.146	97.4	70-130			
2-Methylnaphthalene	0.312	0.002	"	0.200	0.118	97.0	70-130			
Acenaphthene	0.218	0.020	"	0.200	0.012	103	70-130			
Anthracene	0.191	0.020	"	0.200	0.013	89.4	70-130			
Benzo (a) anthracene	0.221	0.005	"	0.200	0.005	108	70-130			
Benzo (a) pyrene	0.183	0.020	"	0.200	0.005	89.3	70-130			
Benzo (b) fluoranthene	0.196	0.020	"	0.200	0.005	95.5	70-130			
Benzo (g,h,i) perylene	0.195	0.020	"	0.200	0.008	93.6	70-130			

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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 - Irvine #2-11

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 B3K1031 - EPA 3580

Matrix Spike (B3K1031-MS1)

Source: Y310740-02

Prepared: 11/10/2023 Analyzed: 11/16/2023

Benzo (k) fluoranthene	0.193	0.020	mg/kg	0.200	0.002	95.8	70-130			
Chrysene	0.218	0.020	"	0.200	0.011	103	70-130			
Dibenz (a,h) anthracene	0.183	0.020	"	0.200	0.001	91.1	70-130			
Fluoranthene	0.282	0.020	"	0.200	0.041	121	70-130			
Fluorene	0.215	0.020	"	0.200	0.008	104	70-130			
Indeno (1,2,3-cd) pyrene	0.183	0.020	"	0.200	0.003	89.9	70-130			
Naphthalene	0.214	0.002	"	0.200	0.006	104	70-130			
Phenanthrene	0.235	0.020	"	0.200	0.068	83.3	70-130			
Pyrene	0.186	0.020	"	0.200	0.055	65.3	70-130			QM-07
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	160		"	200		80.3	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.3	60-130			

Matrix Spike Dup (B3K1031-MSD1)

Source: Y310740-02

Prepared: 11/10/2023 Analyzed: 11/16/2023

1-Methylnaphthalene	0.370	0.002	mg/kg	0.200	0.146	112	70-130	8.11	20	
2-Methylnaphthalene	0.338	0.002	"	0.200	0.118	110	70-130	8.05	20	
Acenaphthene	0.223	0.020	"	0.200	0.012	106	70-130	1.85	20	
Anthracene	0.196	0.020	"	0.200	0.013	91.9	70-130	2.57	20	
Benzo (a) anthracene	0.217	0.005	"	0.200	0.005	106	70-130	1.74	20	
Benzo (a) pyrene	0.186	0.020	"	0.200	0.005	90.9	70-130	1.78	20	
Benzo (b) fluoranthene	0.200	0.020	"	0.200	0.005	97.3	70-130	1.73	20	
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	0.008	91.7	70-130	1.93	20	
Benzo (k) fluoranthene	0.205	0.020	"	0.200	0.002	102	70-130	6.00	20	
Chrysene	0.218	0.020	"	0.200	0.011	103	70-130	0.135	20	
Dibenz (a,h) anthracene	0.185	0.020	"	0.200	0.001	91.7	70-130	0.645	20	
Fluoranthene	0.288	0.020	"	0.200	0.041	123	70-130	1.84	20	

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Irvine #2-11

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 B3K1031 - EPA 3580

Matrix Spike Dup (B3K1031-MSD1)

Source: Y310740-02

Prepared: 11/10/2023 Analyzed: 11/16/2023

Fluorene	0.212	0.020	mg/kg	0.200	0.008	102	70-130	1.55	20	
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200	0.003	89.1	70-130	0.793	20	
Naphthalene	0.215	0.002	"	0.200	0.006	105	70-130	0.698	20	
Phenanthrene	0.257	0.020	"	0.200	0.068	94.6	70-130	9.20	20	
Pyrene	0.200	0.020	"	0.200	0.055	72.7	70-130	7.63	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	170		"	200		83.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.5	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 - Irvine #2-11

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 B3K1018 - Saturated Paste Metals

Blank (B3K1018-BLK1)

Prepared: 11/10/2023 Analyzed: 11/13/2023

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

Duplicate (B3K1018-DUP1)

Source: Y311237-01

Prepared: 11/10/2023 Analyzed: 11/13/2023

Calcium PPM	438	10.0	mg/L		447			2.02	50	
SAR	ND	0.0100	SAR		4.21				200	
Magnesium PPM	357	10.0	mg/L		333			6.91	50	
Sodium PPM	517	10.0	"		483			6.93	50	

Batch B3K1022 - DTPA Sorbitol Preparation

Blank (B3K1022-BLK1)

Prepared: 11/10/2023 Analyzed: 11/14/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3K1022-DUP1)

Source: Y311150-09

Prepared: 11/10/2023 Analyzed: 11/14/2023

Boron	0.702	0.0981	mg/L		0.635			9.93	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 - Irvine #2-11

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 B3K1026 - Saturated Paste pH/EC

Blank (B3K1026-BLK1)

Prepared: 11/10/2023 Analyzed: 11/11/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3K1026-DUP1)

Source: Y311237-01

Prepared: 11/10/2023 Analyzed: 11/11/2023

pH 8.17 pH Units 8.15 0.245 25

Specific Conductance (EC) 5.01 0.00500 mmhos/cm 4.91 1.97 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 - Irvine #2-11

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 L716849 -

DUP (L 90065-DUP)

Source: Y311242-01

Prepared: Analyzed: 11/14/2023

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20	
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MS (L 90065-MS)

Source: Y311242-01

Prepared: Analyzed: 11/14/2023

Chromium, Hexavalent	32.5	2.5	mg/Kg	39.1	<1.22	83	75-125		
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LCS (LCS)

Prepared: Analyzed: 11/14/2023

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

Prepared: Analyzed: 11/14/2023

Chromium, Hexavalent	ND	0.5	mg/Kg			-			
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Irvine #2-11

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.
- 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 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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Jordan A. Bynon, Project Manager