



## **ATTACHMENT**

### **Laboratory Analytical Data**



February 21, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Dillard USX AB #03-14P      Project Number - [none]**

Attached are your analytical results for Noble - Dillard USX AB #03-14P received by Origins Laboratory, Inc. February 14, 2024. This project is associated with Origins project number Y402324-01.

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 - Dillard USX AB #03-14P

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@7'	Y402324-01	Soil	February 13, 2024 15:43	02/14/2024 13:11
Background-01@2'	Y402324-02	Soil	February 13, 2024 15:45	02/14/2024 13:11
WH-SS-01@6'	Y402324-03	Soil	February 13, 2024 15:35	02/14/2024 13:11
WH-SS-02@6'	Y402324-04	Soil	February 13, 2024 15:37	02/14/2024 13:11
WH-SS-03@6'	Y402324-05	Soil	February 13, 2024 15:39	02/14/2024 13:11
WH-SS-04@6'	Y402324-06	Soil	February 13, 2024 15:41	02/14/2024 13:11

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y402324

Client: Eagle

Client Project ID: Dillard USX AB 0314P

Checklist Completed by: EWS

Shipped Via: HD

Date/time completed: 2/14/24

(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 / 12.5 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe)

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 <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> 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 2/15/24

Origins Laboratory, Inc.

[Signature]

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**WH-FS-01@7'**  
**2/13/2024 3:43:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402324-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.715	0.100	mg/L	1	B4B1511	ACC	02/15/2024	02/16/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B1434	ADM	02/14/2024	02/19/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	82.4 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B1503	ZZZ	02/15/2024	02/15/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"	"	"	

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 Project Number: [none]  
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**WH-FS-01@7'**  
**2/13/2024 3:43:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402324-01 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.24	0.499	meq/L	10	[CALC]	ACC	02/17/2024	02/19/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	1.20	0.435	"	"	"	ACC	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B1439	Windo	02/15/2024	02/16/2024	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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**WH-FS-01@7'**  
**2/13/2024 3:43:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402324-01 (Soil)**

**PAH by EPA 8270E**

Surrogate: Fluorene-d10	98.6 %	60-130			B4B14 39		02/15/2024	02/16/2024	
Surrogate: Anthracene-d10	98.4 %	60-130			"		"	"	
Surrogate: Pyrene-d10	97.9 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	96.9 %	60-130			"		"	"	

**pH in Soil by 9045D**

pH	8.14		pH Units	1	B4B1707	EAL	02/17/2024	02/19/2024	
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**SAR by 20B Saturated Paste**

SAR	1.19	0.0100	SAR	1	B4B1703	ACC	02/17/2024	02/19/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.306	0.00500	mmhos/cm	1	B4B1707	EAL	02/17/2024	02/19/2024	
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**Background-01@2'**  
**2/13/2024 3:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402324-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.353	0.100	mg/L	1	B4B1511	ACC	02/15/2024	02/16/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.63	0.499	meq/L	10	[CALC]	ACC	02/17/2024	02/19/2024	
Magnesium	1.10	0.823	"	"	"	ACC	"	"	
Sodium	1.04	0.435	"	"	"	ACC	"	"	

**pH in Soil by 9045D**

pH	8.15		pH Units	1	B4B1707	EAL	02/17/2024	02/19/2024	
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**SAR by 20B Saturated Paste**

SAR	0.760	0.0100	SAR	1	B4B1703	ACC	02/17/2024	02/19/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.314	0.00500	mmhos/cm	1	B4B1707	EAL	02/17/2024	02/19/2024	
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**WH-SS-01@6'**  
**2/13/2024 3:35:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402324-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.03	0.0993	mg/L	1	B4B1511	ACC	02/15/2024	02/16/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B1434	ADM	02/14/2024	02/19/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: <i>o</i> -Terphenyl	82.1 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B1503	ZZZ	02/15/2024	02/15/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130			"	"	"	"	

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 Project Number: [none]  
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**WH-SS-01@6'**  
**2/13/2024 3:35:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402324-03 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.21	0.499	meq/L	10	[CALC]	ACC	02/17/2024	02/19/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	2.54	0.435	"	"	"	ACC	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B1439	Windo	02/15/2024	02/16/2024	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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 Project: Noble - Dillard USX AB #03-14P

**WH-SS-01@6'**  
**2/13/2024 3:35:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402324-03 (Soil)**

**PAH by EPA 8270E**

Surrogate: Fluorene-d10	99.3 %	60-130			B4B14 39		02/15/2024	02/16/2024	
Surrogate: Anthracene-d10	96.5 %	60-130			"		"	"	
Surrogate: Pyrene-d10	96.7 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	96.9 %	60-130			"		"	"	

**pH in Soil by 9045D**

pH	8.15		pH Units	1	B4B1707	EAL	02/17/2024	02/19/2024	
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**SAR by 20B Saturated Paste**

SAR	2.61	0.0100	SAR	1	B4B1703	ACC	02/17/2024	02/19/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.447	0.00500	mmhos/cm	1	B4B1707	EAL	02/17/2024	02/19/2024	
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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**WH-SS-02@6'**  
**2/13/2024 3:37:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402324-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	<b>0.703</b>	0.0999	mg/L	1	B4B1511	ACC	02/15/2024	02/16/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B1434	ADM	02/14/2024	02/19/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: <i>o</i> -Terphenyl	83.9 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B1503	ZZZ	02/15/2024	02/15/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	<b>0.678</b>	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**WH-SS-02@6'**  
**2/13/2024 3:37:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402324-04 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.26	0.499	meq/L	10	[CALC]	ACC	02/17/2024	02/19/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	3.42	0.435	"	"	"	ACC	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.005	0.002	mg/kg	1	B4B1439	Windo	02/15/2024	02/16/2024	
2-Methylnaphthalene	0.005	0.002	"	"	"	Windo	"	"	
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

Surrogate: Fluorene-d10 100 % 60-130 " " "

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**WH-SS-02@6'**  
**2/13/2024 3:37:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402324-04 (Soil)**

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	99.0 %	60-130			B4B14 39		02/15/2024	02/16/2024	
Surrogate: Pyrene-d10	93.3 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	98.2 %	60-130			"		"	"	

**pH in Soil by 9045D**

pH	8.01		pH Units	1	B4B1707	EAL	02/17/2024	02/19/2024	
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**SAR by 20B Saturated Paste**

SAR	3.63	0.0100	SAR	1	B4B1703	ACC	02/17/2024	02/19/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.583	0.00500	mmhos/cm	1	B4B1707	EAL	02/17/2024	02/19/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**WH-SS-03@6'**  
**2/13/2024 3:39:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402324-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.627	0.100	mg/L	1	B4B1511	ACC	02/15/2024	02/16/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B1434	ADM	02/14/2024	02/19/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	89.9 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B1503	ZZZ	02/15/2024	02/15/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**WH-SS-03@6'**  
**2/13/2024 3:39:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402324-05 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.21	0.499	meq/L	10	[CALC]	ACC	02/17/2024	02/19/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	1.87	0.435	"	"	"	ACC	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B1439	Windo	02/15/2024	02/16/2024	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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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**WH-SS-03@6'**  
**2/13/2024 3:39:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402324-05 (Soil)**

**PAH by EPA 8270E**

Surrogate: Fluorene-d10	99.7 %	60-130			B4B14 39		02/15/2024	02/16/2024	
Surrogate: Anthracene-d10	95.8 %	60-130			"		"	"	
Surrogate: Pyrene-d10	91.1 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	99.9 %	60-130			"		"	"	

**pH in Soil by 9045D**

pH	8.29		pH Units	1	B4B1707	EAL	02/17/2024	02/19/2024	
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**SAR by 20B Saturated Paste**

SAR	1.94	0.0100	SAR	1	B4B1703	ACC	02/17/2024	02/19/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.386	0.00500	mmhos/cm	1	B4B1707	EAL	02/17/2024	02/19/2024	
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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**WH-SS-04@6'**  
**2/13/2024 3:41:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402324-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.703	0.0998	mg/L	1	B4B1511	ACC	02/15/2024	02/16/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	29.0	25.0	mg/kg	1	B4B1434	ADM	02/14/2024	02/19/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	92.2 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B1503	ZZZ	02/15/2024	02/15/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**WH-SS-04@6'**  
**2/13/2024 3:41:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402324-06 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.05	0.499	meq/L	10	[CALC]	ACC	02/17/2024	02/19/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	2.30	0.435	"	"	"	ACC	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.004	0.002	mg/kg	1	B4B1439	Windo	02/15/2024	02/16/2024	
2-Methylnaphthalene	0.004	0.002	"	"	"	Windo	"	"	
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

Surrogate: Fluorene-d10 101 % 60-130 " " "

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**WH-SS-04@6'**  
**2/13/2024 3:41:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402324-06 (Soil)**

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	98.3 %	60-130			B4B14 39		02/15/2024	02/16/2024	
Surrogate: Pyrene-d10	93.6 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	100 %	60-130			"		"	"	

**pH in Soil by 9045D**

pH	7.94		pH Units	1	B4B1707	EAL	02/17/2024	02/19/2024	
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**SAR by 20B Saturated Paste**

SAR	2.57	0.0100	SAR	1	B4B1703	ACC	02/17/2024	02/19/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.422	0.00500	mmhos/cm	1	B4B1707	EAL	02/17/2024	02/19/2024	
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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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
<b>Batch B4B1434 - EPA 3550B</b>										
<b>Blank (B4B1434-BLK1)</b>										
					Prepared: 02/14/2024 Analyzed: 02/19/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		86.0	50-150			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4B1434 - EPA 3550B**

**LCS (B4B1434-BS1)**

Prepared: 02/14/2024 Analyzed: 02/19/2024

Diesel (C10-C28)	850	50.0	mg/kg	1000		85.0	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4B1434 - EPA 3550B**

<b>Matrix Spike (B4B1434-MS1)</b>	<b>Source: Y402230-02</b>			<b>Prepared: 02/14/2024 Analyzed: 02/19/2024</b>						
Diesel (C10-C28)	913	50.0	mg/kg	1000	ND	91.3	70-130			
Residual Range Organics (C28-C40)	1150	200	"	1000	ND	115	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.0	50-150			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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
<b>Batch B4B1434 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4B1434-MSD1)</b>		<b>Source: Y402230-02</b>								
					Prepared: 02/14/2024	Analyzed: 02/19/2024				
Diesel (C10-C28)	871	50.0	mg/kg	1000	ND	87.1	70-130	4.71	35	
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130	7.42	35	
Surrogate: o-Terphenyl	43		"	49.8		85.8	50-150			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4B1503 - EPA 5030 (soil)**

**Blank (B4B1503-BLK1)**

Prepared: 02/15/2024 Analyzed: 02/15/2024

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	0.11		"	0.125	89.7		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4B1503 - EPA 5030 (soil)**

**LCS (B4B1503-BS1)**

Prepared: 02/15/2024 Analyzed: 02/15/2024

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Naphthalene	0.0968	0.00380	"	0.100		96.8	70-130			
Toluene	0.0991	0.00200	"	0.100		99.1	70-130			
o-Xylene	0.0938	0.00200	"	0.100		93.8	70-130			
m,p-Xylene	0.217	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	70-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4B1503 - EPA 5030 (soil)

Matrix Spike (B4B1503-MS1)	Source: Y402324-01			Prepared: 02/15/2024 Analyzed: 02/15/2024						
1,2,4-Trimethylbenzene	0.0822	0.00200	mg/kg	0.100	ND	82.2	70-130			
1,3,5-Trimethylbenzene	0.0855	0.00200	"	0.100	ND	85.5	70-130			
Benzene	0.0822	0.00200	"	0.100	ND	82.2	70-130			
Ethylbenzene	0.0891	0.00200	"	0.100	ND	89.1	70-130			
Naphthalene	0.0879	0.00380	"	0.100	ND	87.9	70-130			
Toluene	0.0808	0.00200	"	0.100	ND	80.8	70-130			
o-Xylene	0.0843	0.00200	"	0.100	ND	84.3	70-130			
m,p-Xylene	0.179	0.00400	"	0.200	ND	89.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4B1503 - EPA 5030 (soil)

Matrix Spike Dup (B4B1503-MSD1)	Source: Y402324-01			Prepared: 02/15/2024 Analyzed: 02/15/2024						
1,2,4-Trimethylbenzene	0.0976	0.00200	mg/kg	0.100	ND	97.6	70-130	17.1	20	
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	16.5	20	
Benzene	0.0972	0.00200	"	0.100	ND	97.2	70-130	16.8	20	
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	13.5	20	
Naphthalene	0.110	0.00380	"	0.100	ND	110	70-130	22.4	20	QR-02
Toluene	0.0949	0.00200	"	0.100	ND	94.9	70-130	16.1	20	
o-Xylene	0.0966	0.00200	"	0.100	ND	96.6	70-130	13.6	20	
m,p-Xylene	0.207	0.00400	"	0.200	ND	104	70-130	14.8	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.7	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4B1439 - EPA 3580**

**Blank (B4B1439-BLK1)**

Prepared: 02/15/2024 Analyzed: 02/16/2024

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	190		ug/kg	200		96.9	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4B1439 - EPA 3580**

**LCS (B4B1439-BS1)**

Prepared: 02/15/2024 Analyzed: 02/16/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200		96.3	70-130			
2-Methylnaphthalene	0.185	0.002	"	0.200		92.7	70-130			
Acenaphthene	0.184	0.020	"	0.200		91.8	70-130			
Anthracene	0.204	0.020	"	0.200		102	70-130			
Benzo (a) anthracene	0.186	0.005	"	0.200		93.2	70-130			
Benzo (a) pyrene	0.185	0.020	"	0.200		92.6	70-130			
Benzo (b) fluoranthene	0.205	0.020	"	0.200		102	70-130			
Benzo (g,h,i) perylene	0.197	0.020	"	0.200		98.7	70-130			
Benzo (k) fluoranthene	0.204	0.020	"	0.200		102	70-130			
Chrysene	0.190	0.020	"	0.200		95.1	70-130			
Dibenz (a,h) anthracene	0.212	0.020	"	0.200		106	70-130			
Fluoranthene	0.194	0.020	"	0.200		97.1	70-130			
Fluorene	0.172	0.020	"	0.200		86.2	70-130			
Indeno (1,2,3-cd) pyrene	0.201	0.020	"	0.200		100	70-130			
Naphthalene	0.188	0.002	"	0.200		94.2	70-130			
Phenanthrene	0.192	0.020	"	0.200		96.2	70-130			
Pyrene	0.188	0.020	"	0.200		94.2	70-130			

Surrogate: Fluorene-d10	190		ug/kg	200		93.7	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

**Matrix Spike (B4B1439-MS1)**

**Source: Y402279-01**

Prepared: 02/15/2024 Analyzed: 02/16/2024

1-Methylnaphthalene	0.180	0.002	mg/kg	0.200	ND	89.9	70-130			
2-Methylnaphthalene	0.180	0.002	"	0.200	ND	90.1	70-130			
Acenaphthene	0.180	0.020	"	0.200	ND	89.9	70-130			
Anthracene	0.200	0.020	"	0.200	ND	100	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4B1439 - EPA 3580**

<b>Matrix Spike (B4B1439-MS1)</b>		<b>Source: Y402279-01</b>			<b>Prepared: 02/15/2024 Analyzed: 02/16/2024</b>					
Benzo (a) anthracene	0.182	0.005	mg/kg	0.200	0.0004	90.9	70-130			
Benzo (a) pyrene	0.182	0.020	"	0.200	0.002	90.0	70-130			
Benzo (b) fluoranthene	0.192	0.020	"	0.200	ND	95.8	70-130			
Benzo (g,h,i) perylene	0.185	0.020	"	0.200	ND	92.4	70-130			
Benzo (k) fluoranthene	0.177	0.020	"	0.200	ND	88.6	70-130			
Chrysene	0.193	0.020	"	0.200	0.0003	96.4	70-130			
Dibenz (a,h) anthracene	0.175	0.020	"	0.200	ND	87.3	70-130			
Fluoranthene	0.199	0.020	"	0.200	ND	99.4	70-130			
Fluorene	0.169	0.020	"	0.200	ND	84.4	70-130			
Indeno (1,2,3-cd) pyrene	0.180	0.020	"	0.200	ND	89.8	70-130			
Naphthalene	0.182	0.002	"	0.200	ND	91.2	70-130			
Phenanthrene	0.191	0.020	"	0.200	ND	95.4	70-130			
Pyrene	0.193	0.020	"	0.200	ND	96.7	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		94.4	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

<b>Matrix Spike Dup (B4B1439-MSD1)</b>		<b>Source: Y402279-01</b>			<b>Prepared: 02/15/2024 Analyzed: 02/16/2024</b>					
1-Methylnaphthalene	0.187	0.002	mg/kg	0.200	ND	93.7	70-130	4.18	20	
2-Methylnaphthalene	0.187	0.002	"	0.200	ND	93.6	70-130	3.83	20	
Acenaphthene	0.186	0.020	"	0.200	ND	93.2	70-130	3.59	20	
Anthracene	0.212	0.020	"	0.200	ND	106	70-130	5.68	20	
Benzo (a) anthracene	0.189	0.005	"	0.200	0.0004	94.4	70-130	3.79	20	
Benzo (a) pyrene	0.184	0.020	"	0.200	0.002	91.2	70-130	1.33	20	
Benzo (b) fluoranthene	0.197	0.020	"	0.200	ND	98.6	70-130	2.88	20	
Benzo (g,h,i) perylene	0.184	0.020	"	0.200	ND	92.2	70-130	0.214	20	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4B1439 - EPA 3580**

<b>Matrix Spike Dup (B4B1439-MSD1)</b>	<b>Source: Y402279-01</b>			<b>Prepared: 02/15/2024 Analyzed: 02/16/2024</b>						
Benzo (k) fluoranthene	0.196	0.020	mg/kg	0.200	ND	97.9	70-130	9.98	20	
Chrysene	0.194	0.020	"	0.200	0.0003	97.0	70-130	0.671	20	
Dibenz (a,h) anthracene	0.191	0.020	"	0.200	ND	95.5	70-130	8.92	20	
Fluoranthene	0.185	0.020	"	0.200	ND	92.7	70-130	6.90	20	
Fluorene	0.181	0.020	"	0.200	ND	90.5	70-130	7.02	20	
Indeno (1,2,3-cd) pyrene	0.188	0.020	"	0.200	ND	94.2	70-130	4.76	20	
Naphthalene	0.196	0.002	"	0.200	ND	98.0	70-130	7.10	20	
Phenanthrene	0.200	0.020	"	0.200	ND	100	70-130	4.82	20	
Pyrene	0.184	0.020	"	0.200	ND	92.0	70-130	5.03	20	
Surrogate: Fluorene-d10	190		ug/kg	200		95.6	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	190		"	200		94.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4B1511 - DTPA Sorbitol Preparation**

**Blank (B4B1511-BLK1)**

Prepared: 02/15/2024 Analyzed: 02/16/2024

Boron ND 0.100 mg/L

**Duplicate (B4B1511-DUP1)**

**Source: Y402298-11**

Prepared: 02/15/2024 Analyzed: 02/16/2024

Boron 1.16 0.0999 mg/L 1.00 14.6 50

**Batch B4B1703 - Saturated Paste Metals**

**Blank (B4B1703-BLK1)**

Prepared: 02/17/2024 Analyzed: 02/19/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

**Duplicate (B4B1703-DUP1)**

**Source: Y402324-01**

Prepared: 02/17/2024 Analyzed: 02/19/2024

Calcium PPM 23.7 10.0 mg/L 24.9 5.14 50

SAR ND 0.0100 SAR 1.19 200

Magnesium PPM 9.14 10.0 mg/L 9.61 5.01 50

Sodium PPM 30.1 10.0 " 27.5 9.13 50

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4B1707 - Saturated Paste pH/EC</b>										
<b>Blank (B4B1707-BLK1)</b>					Prepared: 02/17/2024 Analyzed: 02/19/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B4B1707-DUP1)</b>					<b>Source: Y402324-01</b> Prepared: 02/17/2024 Analyzed: 02/19/2024					
Specific Conductance (EC)	0.314	0.00500	mmhos/cm		0.306			2.68	25	
pH	8.34		pH Units		8.14			2.43	25	

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Dillard USX AB #03-14P

---

### Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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April 18, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Dillard USX AB #03-14P

Project Number - [none]

Attached are your analytical results for Noble - Dillard USX AB #03-14P received by Origins Laboratory, Inc. April 05, 2024. This project is associated with Origins project number Y404195-01.

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 - Dillard USX AB #03-14P

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-02@3'	Y404195-01	Soil	April 5, 2024 10:15	04/05/2024 15:17

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y404195

Client: Eagle  
 Client Project ID: N06K-Dillard USX AB03-

Checklist Completed by: SALEHO  
 Date/time completed: 4/5/12

Shipped Via: HO  
 (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 / 4.6 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °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 <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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 4/9/12

Origins Laboratory, Inc.

[Signature]

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**Background-02@3'**  
**4/5/2024 10:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404195-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.504		0.101	mg/L	1	B4D0809	04/08/2024	04/09/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D0817	04/08/2024	04/10/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	63.7 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D1015	04/10/2024	04/10/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**Background-02@3'**  
**4/5/2024 10:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404195-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	134 %		70-130			B4D10 15	04/10/2024	04/10/2024	GC
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	7.89		0.499	meq/L	10	[CALC]	04/08/2024	04/10/2024	
Magnesium	3.51		0.823	"	"	"	"	"	
Sodium	3.76		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4D1025	04/10/2024	04/12/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**Background-02@3'**  
**4/5/2024 10:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404195-01 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B4D1025	04/10/2024	04/12/2024	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	106 %		60-130			"	"	"	
Surrogate: Anthracene-d10	102 %		60-130			"	"	"	
Surrogate: Pyrene-d10	86.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	122 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.82			pH Units	1	B4D0811	04/08/2024	04/09/2024	
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**SAR by 20B Saturated Paste**

SAR	1.57		0.0100	SAR	1	B4D0803	04/08/2024	04/10/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.41		0.00500	mmhos/cm	1	B4D0811	04/08/2024	04/09/2024	
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**Table 915 metals by EPA 6020B**

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**Background-02@3'**  
**4/5/2024 10:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404195-01 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	4.21		0.263	mg/kg	10	B4D0542	04/05/2024	04/09/2024	
Barium	467		9.06	"	"	"	"	"	
Cadmium	0.281		0.0906	"	"	"	"	"	
Copper	14.2		9.06	"	"	"	"	"	
Lead	15.5		0.906	"	"	"	"	"	
Nickel	12.1		0.906	"	"	"	"	"	
Selenium	0.690		0.236	"	"	"	"	"	
Silver	ND		0.0906	"	"	"	"	"	
Zinc	57.3		33.5	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	0.121	0.106	0.265	mg/kg dry	1	2594777	04/10/2024	04/10/2024	J
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 Project: Noble - Dillard USX AB #03-14P

**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
<b>Batch B4D0817 - EPA 3550B</b>										
<b>Blank (B4D0817-BLK1)</b>										
					Prepared: 04/08/2024 Analyzed: 04/10/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		91.8	50-150			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4D0817 - EPA 3550B**

**LCS (B4D0817-BS1)**

Prepared: 04/08/2024 Analyzed: 04/10/2024

Diesel (C10-C28)	917	50.0	mg/kg	1000		91.7	70-130			
Residual Range Organics (C28-C40)	990	200	"	1000		99.0	70-130			
Surrogate: o-Terphenyl	49		"	49.8		99.0	50-150			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4D0817 - EPA 3550B**

<b>Matrix Spike (B4D0817-MS1)</b>	<b>Source: Y404157-01</b>			Prepared: 04/08/2024 Analyzed: 04/10/2024						
Diesel (C10-C28)	912	50.0	mg/kg	1000	ND	91.2	70-130			
Residual Range Organics (C28-C40)	983	200	"	1000	ND	98.3	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.9	50-150			

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Andrew Newberry  
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 Project: Noble - Dillard USX AB #03-14P

**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 B4D0817 - EPA 3550B**

<b>Matrix Spike Dup (B4D0817-MSD1)</b>	<b>Source: Y404157-01</b>		<b>Prepared: 04/08/2024 Analyzed: 04/10/2024</b>							
Diesel (C10-C28)	913	50.0	mg/kg	1000	ND	91.3	70-130	0.0142	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	2.68	35	
<i>Surrogate: o-Terphenyl</i>	64		"	49.8		129	50-150			

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 Project: Noble - Dillard USX AB #03-14P

**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
<b>Batch B4D1015 - EPA 5030 (soil)</b>										
<b>Blank (B4D1015-BLK1)</b>										
					Prepared: 04/10/2024 Analyzed: 04/10/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.125	134		70-130			S-GC
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	95.5		70-130			

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 Project: Noble - Dillard USX AB #03-14P

**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 B4D1015 - EPA 5030 (soil)**

**LCS (B4D1015-BS1)**

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

1,2,4-Trimethylbenzene	0.0979	0.00200	mg/kg	0.100		97.9	70-130			
1,3,5-Trimethylbenzene	0.0958	0.00200	"	0.100		95.8	70-130			
Benzene	0.0909	0.00200	"	0.100		90.9	70-130			
Ethylbenzene	0.0964	0.00200	"	0.100		96.4	70-130			
Naphthalene	0.114	0.00380	"	0.100		114	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.192	0.00400	"	0.200		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.125		133	70-130			S-GC
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4D1015 - EPA 5030 (soil)

Matrix Spike (B4D1015-MS1)	Source: Y404172-01			Prepared: 04/10/2024 Analyzed: 04/10/2024						
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	0.000520	106	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Naphthalene	0.120	0.00380	"	0.100	0.00276	117	70-130			
Toluene	0.110	0.00200	"	0.100	ND	110	70-130			
o-Xylene	0.111	0.00200	"	0.100	ND	111	70-130			
m,p-Xylene	0.205	0.00400	"	0.200	0.000720	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		131	70-130			S-GC
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4D1015 - EPA 5030 (soil)

Matrix Spike Dup (B4D1015-MSD1)	Source: Y404172-01	Prepared: 04/10/2024	Analyzed: 04/10/2024							
1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100	0.000520	111	70-130	4.51	20	
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130	4.82	20	
Benzene	0.105	0.00200	"	0.100	ND	105	70-130	3.77	20	
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	4.75	20	
Naphthalene	0.137	0.00380	"	0.100	0.00276	134	70-130	13.4	20	QM-07
Toluene	0.115	0.00200	"	0.100	ND	115	70-130	4.15	20	
o-Xylene	0.118	0.00200	"	0.100	ND	118	70-130	5.43	20	
m,p-Xylene	0.215	0.00400	"	0.200	0.000720	107	70-130	4.66	20	
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		129	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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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**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 B4D0542 - EPA 3050B**

**Blank (B4D0542-BLK1)**

Prepared: 04/05/2024 Analyzed: 04/09/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

**LCS (B4D0542-BS1)**

Prepared: 04/05/2024 Analyzed: 04/09/2024

Arsenic	5.29	0.290	mg/kg	5.00		106	80-120			
Barium	512	10.0	"	500		102	80-120			
Cadmium	5.78	0.100	"	5.00		116	80-120			
Copper	55.7	10.0	"	50.0		111	80-120			
Lead	5.38	1.00	"	5.00		108	80-120			
Nickel	5.36	1.00	"	5.00		107	80-120			
Selenium	10.6	0.260	"	9.50		111	80-120			
Silver	5.84	0.100	"	5.00		117	80-120			
Zinc	55.8	37.0	"	50.0		112	80-120			

**Matrix Spike (B4D0542-MS1)**

Source: Y404189-01

Prepared: 04/05/2024 Analyzed: 04/09/2024

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4D0542 - EPA 3050B**

<b>Matrix Spike (B4D0542-MS1)</b>		<b>Source: Y404189-01</b>			Prepared: 04/05/2024 Analyzed: 04/09/2024					
Arsenic	11.7	0.253	mg/kg	4.36	7.18	104	75-125			
Barium	676	8.71	"	436	184	113	75-125			
Cadmium	5.01	0.0871	"	4.36	0.253	109	75-125			
Copper	62.1	8.71	"	43.6	15.6	107	75-125			
Lead	17.4	0.871	"	4.36	13.8	84.3	75-125			
Nickel	21.6	0.871	"	4.36	17.5	94.1	75-125			
Selenium	9.16	0.227	"	8.28	0.819	101	75-125			
Silver	5.04	0.0871	"	4.36	0.0995	114	75-125			
Zinc	107	32.2	"	43.6	60.2	107	75-125			

<b>Matrix Spike Dup (B4D0542-MSD1)</b>		<b>Source: Y404189-01</b>			Prepared: 04/05/2024 Analyzed: 04/09/2024					
Arsenic	11.3	0.257	mg/kg	4.44	7.18	92.1	75-125	3.99	20	
Barium	658	8.88	"	444	184	107	75-125	2.70	20	
Cadmium	5.19	0.0888	"	4.44	0.253	111	75-125	3.62	20	
Copper	63.8	8.88	"	44.4	15.6	109	75-125	2.81	20	
Lead	18.0	0.888	"	4.44	13.8	94.5	75-125	2.95	20	
Nickel	22.3	0.888	"	4.44	17.5	107	75-125	3.04	20	
Selenium	9.53	0.231	"	8.43	0.819	103	75-125	3.95	20	
Silver	5.01	0.0888	"	4.44	0.0995	111	75-125	0.690	20	
Zinc	106	32.8	"	44.4	60.2	104	75-125	0.241	20	

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4D1025 - EPA 3580**

**Blank (B4D1025-BLK1)**

Prepared: 04/10/2024 Analyzed: 04/11/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		99.5	60-130			
Surrogate: Anthracene-d10	210		"	200		106	60-130			
Surrogate: Pyrene-d10	170		"	200		86.8	60-130			
Surrogate: Benzo (a) pyrene-d12	240		"	200		121	60-130			

**LCS (B4D1025-BS1)**

Prepared: 04/10/2024 Analyzed: 04/11/2024

1-Methylnaphthalene	0.197	0.002	mg/kg	0.200		98.3	70-130			
2-Methylnaphthalene	0.199	0.002	"	0.200		99.6	70-130			
Acenaphthene	0.169	0.020	"	0.200		84.7	70-130			
Anthracene	0.178	0.020	"	0.200		88.8	70-130			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4D1025 - EPA 3580**

**LCS (B4D1025-BS1)**

Prepared: 04/10/2024 Analyzed: 04/11/2024

Benzo (a) anthracene	0.192	0.005	mg/kg	0.200		96.0	70-130			
Benzo (a) pyrene	0.233	0.020	"	0.200		116	70-130			
Benzo (b) fluoranthene	0.233	0.020	"	0.200		117	70-130			
Benzo (g,h,i) perylene	0.236	0.020	"	0.200		118	70-130			
Benzo (k) fluoranthene	0.211	0.020	"	0.200		106	70-130			
Chrysene	0.191	0.020	"	0.200		95.7	70-130			
Dibenz (a,h) anthracene	0.284	0.020	"	0.200		142	70-130			QM-11
Fluoranthene	0.160	0.020	"	0.200		79.8	70-130			
Fluorene	0.163	0.020	"	0.200		81.4	70-130			
Indeno (1,2,3-cd) pyrene	0.247	0.020	"	0.200		124	70-130			
Naphthalene	0.174	0.002	"	0.200		87.0	70-130			
Phenanthrene	0.184	0.020	"	0.200		92.2	70-130			
Pyrene	0.166	0.020	"	0.200		82.8	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	170		"	200		86.4	60-130			
Surrogate: Benzo (a) pyrene-d12	250		"	200		124	60-130			

**Matrix Spike (B4D1025-MS1)**

Source: Y404099-01

Prepared: 04/10/2024 Analyzed: 04/11/2024

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	ND	104	70-130			
2-Methylnaphthalene	0.205	0.002	"	0.200	ND	103	70-130			
Acenaphthene	0.175	0.020	"	0.200	0.002	86.8	70-130			
Anthracene	0.191	0.020	"	0.200	0.0008	95.2	70-130			
Benzo (a) anthracene	0.203	0.005	"	0.200	ND	101	70-130			
Benzo (a) pyrene	0.230	0.020	"	0.200	ND	115	70-130			
Benzo (b) fluoranthene	0.243	0.020	"	0.200	0.002	120	70-130			
Benzo (g,h,i) perylene	0.245	0.020	"	0.200	0.003	121	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4D1025 - EPA 3580**

<b>Matrix Spike (B4D1025-MS1)</b>		<b>Source: Y404099-01</b>			Prepared: 04/10/2024 Analyzed: 04/11/2024					
Benzo (k) fluoranthene	0.210	0.020	mg/kg	0.200	0.004	103	70-130			
Chrysene	0.206	0.020	"	0.200	0.001	102	70-130			
Dibenz (a,h) anthracene	0.288	0.020	"	0.200	0.003	142	70-130			QM-07
Fluoranthene	0.164	0.020	"	0.200	0.0007	81.5	70-130			
Fluorene	0.168	0.020	"	0.200	ND	83.9	70-130			
Indeno (1,2,3-cd) pyrene	0.258	0.020	"	0.200	0.003	127	70-130			
Naphthalene	0.180	0.002	"	0.200	ND	90.0	70-130			
Phenanthrene	0.190	0.020	"	0.200	ND	95.1	70-130			
Pyrene	0.167	0.020	"	0.200	ND	83.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.0	60-130			
Surrogate: Anthracene-d10	210		"	200		106	60-130			
Surrogate: Pyrene-d10	170		"	200		85.4	60-130			
Surrogate: Benzo (a) pyrene-d12	250		"	200		124	60-130			

<b>Matrix Spike Dup (B4D1025-MSD1)</b>		<b>Source: Y404099-01</b>			Prepared: 04/10/2024 Analyzed: 04/11/2024					
1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	ND	99.8	70-130	3.68	20	
2-Methylnaphthalene	0.202	0.002	"	0.200	ND	101	70-130	1.61	20	
Acenaphthene	0.170	0.020	"	0.200	0.002	84.3	70-130	2.91	20	
Anthracene	0.177	0.020	"	0.200	0.0008	88.3	70-130	7.46	20	
Benzo (a) anthracene	0.185	0.005	"	0.200	ND	92.7	70-130	9.02	20	
Benzo (a) pyrene	0.227	0.020	"	0.200	ND	113	70-130	1.25	20	
Benzo (b) fluoranthene	0.232	0.020	"	0.200	0.002	115	70-130	4.71	20	
Benzo (g,h,i) perylene	0.238	0.020	"	0.200	0.003	117	70-130	2.93	20	
Benzo (k) fluoranthene	0.206	0.020	"	0.200	0.004	101	70-130	1.56	20	
Chrysene	0.189	0.020	"	0.200	0.001	93.8	70-130	8.77	20	
Dibenz (a,h) anthracene	0.283	0.020	"	0.200	0.003	140	70-130	1.87	20	QM-07
Fluoranthene	0.158	0.020	"	0.200	0.0007	78.7	70-130	3.49	20	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4D1025 - EPA 3580

Matrix Spike Dup (B4D1025-MSD1)	Source: Y404099-01			Prepared: 04/10/2024 Analyzed: 04/11/2024						
Fluorene	0.164	0.020	mg/kg	0.200	ND	81.8	70-130	2.57	20	
Indeno (1,2,3-cd) pyrene	0.246	0.020	"	0.200	0.003	121	70-130	4.81	20	
Naphthalene	0.176	0.002	"	0.200	ND	87.9	70-130	2.38	20	
Phenanthrene	0.184	0.020	"	0.200	ND	92.1	70-130	3.24	20	
Pyrene	0.161	0.020	"	0.200	ND	80.4	70-130	3.87	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.6	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	170		"	200		85.5	60-130			
Surrogate: Benzo (a) pyrene-d12	250		"	200		124	60-130			

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4D0803 - Saturated Paste Metals**

**Blank (B4D0803-BLK1)**

Prepared: 04/08/2024 Analyzed: 04/10/2024

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 (B4D0803-DUP1)**

**Source: Y404180-09**

Prepared: 04/08/2024 Analyzed: 04/10/2024

SAR	ND	0.0100	SAR		8.71				200	
Calcium PPM	6.62	10.0	mg/L		6.17			7.04	50	
Magnesium PPM	2.24	10.0	"		2.19			2.26	50	
Sodium PPM	105	10.0	"		98.9			5.90	50	

**Batch B4D0809 - DTPA Sorbitol Preparation**

**Blank (B4D0809-BLK1)**

Prepared: 04/08/2024 Analyzed: 04/09/2024

Boron	ND	0.100	mg/L							
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**Duplicate (B4D0809-DUP1)**

**Source: Y404143-01**

Prepared: 04/08/2024 Analyzed: 04/09/2024

Boron	0.277	0.0999	mg/L		0.225			21.0	50	
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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4D0811 - Saturated Paste pH/EC</b>										
<b>Blank (B4D0811-BLK1)</b>					Prepared: 04/08/2024 Analyzed: 04/09/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B4D0811-DUP1)</b>					<b>Source: Y404180-09</b> Prepared: 04/08/2024 Analyzed: 04/09/2024					
Specific Conductance (EC)	0.574	0.00500	mmhos/cm		0.583			1.68	25	
pH	8.74		pH Units		8.70			0.459	25	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**Total Metals by 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2594777 - SW846 3060A</b>										
<b>BLANK (1205699469-BLK)</b>					Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	ND	0.390	mg/kg				-			U
<b>LCS (1205699470-BKS)</b>					Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	3.80	0.386	mg/kg	3.86		98.5	80-120			
<b>DUP (1205699471 D)</b>					Source: 662201001 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	ND	0.390	mg/kg dry		<0.156		0-50	N/A	50	U
<b>MS (1205699472 S)</b>					Source: 662201001 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	2.12	0.390	mg/kg dry	3.90	<0.156	54.2	75-125			
<b>DUP (1205699473 D)</b>					Source: 662203003 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	0.174	0.382	mg/kg dry		<0.153		0-50	N/A	50	J
<b>MS (1205699474 S)</b>					Source: 662203003 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	1.74	0.382	mg/kg dry	3.82	<0.153	42	75-125			
<b>ILCS (1205699475-ILCS)</b>					Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	7.84	0.379	mg/kg	7.78		101	80-120			

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Dillard USX AB #03-14P

**Notes and Definitions**

- Ua Sample is Non-Detect.
- U Result not detected above the detection limit
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- QM-11 Spike recovery was outside acceptance limits for LCS, however samples are non-detect for this compound.
- 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 Greater than the detection limit but less than the reporting limit
- 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.

Origins Laboratory, Inc.



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April 18, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Dillard USX AB #03-14P      Project Number - [none]**

Attached are your analytical results for Noble - Dillard USX AB #03-14P received by Origins Laboratory, Inc. April 05, 2024. This project is associated with Origins project number Y404196-01.

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 - Dillard USX AB #03-14P

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS02@5	Y404196-01	Soil	April 5, 2024 10:10	04/05/2024 15:17
FL-SS07@4	Y404196-02	Soil	April 5, 2024 12:05	04/05/2024 15:17

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 1404196

Client: Eagle  
 Client Project ID: Noble - Dillard USX AB03-

Checklist Completed by: SALVINO

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

Date/time completed: 4/5/24

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 4.6 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °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 <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> 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: [Signature] (Project Manager) Date/Time Reviewed: 4/9/24

Origins Laboratory, Inc.

[Signature]

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**FL-SS02@5**  
**4/5/2024 10:10:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404196-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.887		0.100	mg/L	1	B4D0906	04/09/2024	04/10/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D0817	04/08/2024	04/10/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	88.2 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D1015	04/10/2024	04/10/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**FL-SS02@5**  
**4/5/2024 10:10:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404196-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	133 %		70-130			B4D10 15	04/10/2024	04/10/2024	GC
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.07		0.499	meq/L	10	[CALC]	04/08/2024	04/10/2024	
Magnesium	1.14		0.823	"	"	"	"	"	
Sodium	2.08		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4D1130	04/11/2024	04/13/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**FL-SS02@5**  
**4/5/2024 10:10:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404196-01 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B4D1130	04/11/2024	04/13/2024	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	104 %		60-130			"	"	"	
Surrogate: Pyrene-d10	90.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	94.9 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.08			pH Units	1	B4D0811	04/08/2024	04/09/2024	
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**SAR by 20B Saturated Paste**

SAR	1.64		0.0100	SAR	1	B4D0803	04/08/2024	04/10/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.676		0.00500	mmhos/cm	1	B4D0811	04/08/2024	04/09/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

FL-SS02@5

4/5/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y404196-01 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	3.52	0.247	mg/kg	10	B4D0824	04/08/2024	04/09/2024	
Barium	99.9	8.53	"	"	"	"	"	
Cadmium	0.323	0.0853	"	"	"	"	"	
Copper	13.1	8.53	"	"	"	"	"	
Lead	11.6	0.853	"	"	"	"	"	
Nickel	10.3	0.853	"	"	"	"	"	
Selenium	0.491	0.222	"	"	"	"	"	
Silver	0.108	0.0853	"	"	"	"	"	
Zinc	51.7	31.6	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.124	0.309	mg/kg dry	1	2594781	04/10/2024	04/10/2024	U
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**FL-SS07@4**  
**4/5/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404196-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.237		0.100	mg/L	1	B4D0906	04/09/2024	04/10/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D0817	04/08/2024	04/10/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	94.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D1015	04/10/2024	04/10/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

FL-SS07@4  
 4/5/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y404196-02 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	131 %		70-130			B4D10 15	04/10/2024	04/10/2024	GC
Surrogate: Toluene-d8	107 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.5 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.21		0.499	meq/L	10	[CALC]	04/08/2024	04/10/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4D1130	04/11/2024	04/13/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**FL-SS07@4**  
**4/5/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404196-02 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B4D1130	04/11/2024	04/13/2024	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	93.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	93.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.8 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.10			pH Units	1	B4D0811	04/08/2024	04/09/2024	
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**SAR by 20B Saturated Paste**

SAR	0.282		0.0100	SAR	1	B4D0803	04/08/2024	04/10/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.301		0.00500	mmhos/cm	1	B4D0811	04/08/2024	04/09/2024	
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**Table 915 metals by EPA 6020B**

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FL-SS07@4  
 4/5/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y404196-02 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	4.20	0.259	mg/kg	10	B4D0824	04/08/2024	04/09/2024	
Barium	93.7	8.93	"	"	"	"	"	
Cadmium	0.129	0.0893	"	"	"	"	"	
Copper	ND	8.93	"	"	"	"	"	
Lead	7.32	0.893	"	"	"	"	"	
Nickel	7.20	0.893	"	"	"	"	"	
Selenium	0.244	0.232	"	"	"	"	"	
Silver	ND	0.0893	"	"	"	"	"	
Zinc	33.5	33.1	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.114	0.285	mg/kg dry	1	2594781	04/10/2024	04/10/2024	U
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 Project: Noble - Dillard USX AB #03-14P

**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
<b>Batch B4D0817 - EPA 3550B</b>										
<b>Blank (B4D0817-BLK1)</b>										
					Prepared: 04/08/2024 Analyzed: 04/10/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		91.8	50-150			

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 Project: Noble - Dillard USX AB #03-14P

**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 B4D0817 - EPA 3550B**

**LCS (B4D0817-BS1)**

Prepared: 04/08/2024 Analyzed: 04/10/2024

Diesel (C10-C28)	917	50.0	mg/kg	1000		91.7	70-130			
Residual Range Organics (C28-C40)	990	200	"	1000		99.0	70-130			
Surrogate: o-Terphenyl	49		"	49.8		99.0	50-150			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4D0817 - EPA 3550B**

<b>Matrix Spike (B4D0817-MS1)</b>	<b>Source: Y404157-01</b>			Prepared: 04/08/2024 Analyzed: 04/10/2024						
Diesel (C10-C28)	912	50.0	mg/kg	1000	ND	91.2	70-130			
Residual Range Organics (C28-C40)	983	200	"	1000	ND	98.3	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.9	50-150			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4D0817 - EPA 3550B**

<b>Matrix Spike Dup (B4D0817-MSD1)</b>	<b>Source: Y404157-01</b>			<b>Prepared: 04/08/2024 Analyzed: 04/10/2024</b>						
Diesel (C10-C28)	913	50.0	mg/kg	1000	ND	91.3	70-130	0.0142	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	2.68	35	
Surrogate: o-Terphenyl	64		"	49.8		129	50-150			

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 Project: Noble - Dillard USX AB #03-14P

**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 B4D1015 - EPA 5030 (soil)**

**Blank (B4D1015-BLK1)**

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.125	134		70-130			S-GC
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	95.5		70-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4D1015 - EPA 5030 (soil)

**LCS (B4D1015-BS1)**

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

1,2,4-Trimethylbenzene	0.0979	0.00200	mg/kg	0.100		97.9	70-130			
1,3,5-Trimethylbenzene	0.0958	0.00200	"	0.100		95.8	70-130			
Benzene	0.0909	0.00200	"	0.100		90.9	70-130			
Ethylbenzene	0.0964	0.00200	"	0.100		96.4	70-130			
Naphthalene	0.114	0.00380	"	0.100		114	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.192	0.00400	"	0.200		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.125		133	70-130			S-GC
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4D1015 - EPA 5030 (soil)

Matrix Spike (B4D1015-MS1)	Source: Y404172-01			Prepared: 04/10/2024 Analyzed: 04/10/2024						
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	0.000520	106	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Naphthalene	0.120	0.00380	"	0.100	0.00276	117	70-130			
Toluene	0.110	0.00200	"	0.100	ND	110	70-130			
o-Xylene	0.111	0.00200	"	0.100	ND	111	70-130			
m,p-Xylene	0.205	0.00400	"	0.200	0.000720	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		131	70-130			S-GC
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4D1015 - EPA 5030 (soil)

Matrix Spike Dup (B4D1015-MSD1)	Source: Y404172-01		Prepared: 04/10/2024 Analyzed: 04/10/2024							
1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100	0.000520	111	70-130	4.51	20	
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130	4.82	20	
Benzene	0.105	0.00200	"	0.100	ND	105	70-130	3.77	20	
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	4.75	20	
Naphthalene	0.137	0.00380	"	0.100	0.00276	134	70-130	13.4	20	QM-07
Toluene	0.115	0.00200	"	0.100	ND	115	70-130	4.15	20	
o-Xylene	0.118	0.00200	"	0.100	ND	118	70-130	5.43	20	
m,p-Xylene	0.215	0.00400	"	0.200	0.000720	107	70-130	4.66	20	
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		129	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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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**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 B4D0824 - EPA 3050B**

**Blank (B4D0824-BLK1)**

Prepared: 04/08/2024 Analyzed: 04/09/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

**LCS (B4D0824-BS1)**

Prepared: 04/08/2024 Analyzed: 04/09/2024

Arsenic	5.20	0.290	mg/kg	5.00		104	80-120			
Barium	503	10.0	"	500		101	80-120			
Cadmium	5.54	0.100	"	5.00		111	80-120			
Copper	55.9	10.0	"	50.0		112	80-120			
Lead	5.22	1.00	"	5.00		104	80-120			
Nickel	5.27	1.00	"	5.00		105	80-120			
Selenium	10.1	0.260	"	9.50		106	80-120			
Silver	5.85	0.100	"	5.00		117	80-120			
Zinc	53.8	37.0	"	50.0		108	80-120			

**Matrix Spike (B4D0824-MS1)**

Source: Y404211-01

Prepared: 04/08/2024 Analyzed: 04/09/2024

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4D0824 - EPA 3050B**

<b>Matrix Spike (B4D0824-MS1)</b>		<b>Source: Y404211-01</b>			<b>Prepared: 04/08/2024 Analyzed: 04/09/2024</b>					
Arsenic	8.33	0.285	mg/kg	4.91	1.78	133	75-125			QM-07
Barium	525	9.82	"	491	144	77.6	75-125			
Cadmium	5.39	0.0982	"	4.91	0.166	106	75-125			
Copper	60.1	9.82	"	49.1	13.3	95.4	75-125			
Lead	11.1	0.982	"	4.91	6.66	90.0	75-125			
Nickel	12.2	0.982	"	4.91	18.1	NR	75-125			QM-07
Selenium	9.54	0.255	"	9.33	0.834	93.3	75-125			
Silver	5.25	0.0982	"	4.91	0.0302	106	75-125			
Zinc	82.1	36.3	"	49.1	50.8	63.7	75-125			QM-07

<b>Matrix Spike Dup (B4D0824-MSD1)</b>		<b>Source: Y404211-01</b>			<b>Prepared: 04/08/2024 Analyzed: 04/09/2024</b>					
Arsenic	8.64	0.249	mg/kg	4.30	1.78	160	75-125	3.62	20	QM-07
Barium	519	8.60	"	430	144	87.1	75-125	1.23	20	
Cadmium	5.10	0.0860	"	4.30	0.166	115	75-125	5.58	20	
Copper	56.8	8.60	"	43.0	13.3	101	75-125	5.54	20	
Lead	12.2	0.860	"	4.30	6.66	130	75-125	9.98	20	QM-07
Nickel	12.6	0.860	"	4.30	18.1	NR	75-125	3.31	20	QM-07
Selenium	9.03	0.224	"	8.17	0.834	100	75-125	5.49	20	
Silver	4.92	0.0860	"	4.30	0.0302	114	75-125	6.53	20	
Zinc	80.6	31.8	"	43.0	50.8	69.3	75-125	1.82	20	QM-07

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Dillard USX AB #03-14P

**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 B4D1130 - EPA 3580**

**Blank (B4D1130-BLK1)**

Prepared: 04/11/2024 Analyzed: 04/13/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		97.8	60-130			
Surrogate: Anthracene-d10	220		"	200		111	60-130			
Surrogate: Pyrene-d10	190		"	200		92.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.8	60-130			

**LCS (B4D1130-BS1)**

Prepared: 04/11/2024 Analyzed: 04/13/2024

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200		99.6	70-130			
2-Methylnaphthalene	0.195	0.002	"	0.200		97.7	70-130			
Acenaphthene	0.189	0.020	"	0.200		94.7	70-130			
Anthracene	0.183	0.020	"	0.200		91.6	70-130			

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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 B4D1130 - EPA 3580**

**LCS (B4D1130-BS1)**

Prepared: 04/11/2024 Analyzed: 04/13/2024

Benzo (a) anthracene	0.197	0.005	mg/kg	0.200		98.3	70-130			
Benzo (a) pyrene	0.200	0.020	"	0.200		100	70-130			
Benzo (b) fluoranthene	0.181	0.020	"	0.200		90.6	70-130			
Benzo (g,h,i) perylene	0.200	0.020	"	0.200		100	70-130			
Benzo (k) fluoranthene	0.184	0.020	"	0.200		92.0	70-130			
Chrysene	0.182	0.020	"	0.200		91.0	70-130			
Dibenz (a,h) anthracene	0.193	0.020	"	0.200		96.3	70-130			
Fluoranthene	0.199	0.020	"	0.200		99.3	70-130			
Fluorene	0.190	0.020	"	0.200		94.9	70-130			
Indeno (1,2,3-cd) pyrene	0.230	0.020	"	0.200		115	70-130			
Naphthalene	0.191	0.002	"	0.200		95.3	70-130			
Phenanthrene	0.187	0.020	"	0.200		93.5	70-130			
Pyrene	0.183	0.020	"	0.200		91.3	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.1	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	190		"	200		93.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

**Matrix Spike (B4D1130-MS1)**

Source: Y404172-01

Prepared: 04/11/2024 Analyzed: 04/13/2024

1-Methylnaphthalene	0.217	0.002	mg/kg	0.200	ND	108	70-130			
2-Methylnaphthalene	0.211	0.002	"	0.200	ND	106	70-130			
Acenaphthene	0.204	0.020	"	0.200	ND	102	70-130			
Anthracene	0.184	0.020	"	0.200	ND	91.9	70-130			
Benzo (a) anthracene	0.207	0.005	"	0.200	ND	104	70-130			
Benzo (a) pyrene	0.209	0.020	"	0.200	ND	105	70-130			
Benzo (b) fluoranthene	0.208	0.020	"	0.200	0.0003	104	70-130			
Benzo (g,h,i) perylene	0.213	0.020	"	0.200	ND	106	70-130			

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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 B4D1130 - EPA 3580**

<b>Matrix Spike (B4D1130-MS1)</b>		<b>Source: Y404172-01</b>			Prepared: 04/11/2024 Analyzed: 04/13/2024					
Benzo (k) fluoranthene	0.219	0.020	mg/kg	0.200	ND	109	70-130			
Chrysene	0.199	0.020	"	0.200	0.002	98.2	70-130			
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	ND	96.7	70-130			
Fluoranthene	0.217	0.020	"	0.200	ND	108	70-130			
Fluorene	0.203	0.020	"	0.200	ND	102	70-130			
Indeno (1,2,3-cd) pyrene	0.219	0.020	"	0.200	ND	109	70-130			
Naphthalene	0.208	0.002	"	0.200	ND	104	70-130			
Phenanthrene	0.204	0.020	"	0.200	ND	102	70-130			
Pyrene	0.192	0.020	"	0.200	ND	95.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.9	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	180		"	200		91.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.7	60-130			

<b>Matrix Spike Dup (B4D1130-MSD1)</b>		<b>Source: Y404172-01</b>			Prepared: 04/11/2024 Analyzed: 04/13/2024					
1-Methylnaphthalene	0.185	0.002	mg/kg	0.200	ND	92.3	70-130	16.1	20	
2-Methylnaphthalene	0.181	0.002	"	0.200	ND	90.7	70-130	15.2	20	
Acenaphthene	0.175	0.020	"	0.200	ND	87.7	70-130	15.0	20	
Anthracene	0.168	0.020	"	0.200	ND	83.9	70-130	9.09	20	
Benzo (a) anthracene	0.200	0.005	"	0.200	ND	100	70-130	3.35	20	
Benzo (a) pyrene	0.179	0.020	"	0.200	ND	89.3	70-130	15.8	20	
Benzo (b) fluoranthene	0.178	0.020	"	0.200	0.0003	89.0	70-130	15.3	20	
Benzo (g,h,i) perylene	0.181	0.020	"	0.200	ND	90.4	70-130	16.3	20	
Benzo (k) fluoranthene	0.162	0.020	"	0.200	ND	81.1	70-130	29.8	20	QR-02
Chrysene	0.171	0.020	"	0.200	0.002	84.3	70-130	15.0	20	
Dibenz (a,h) anthracene	0.177	0.020	"	0.200	ND	88.6	70-130	8.76	20	
Fluoranthene	0.182	0.020	"	0.200	ND	91.2	70-130	17.1	20	

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 Project: Noble - Dillard USX AB #03-14P

**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 B4D1130 - EPA 3580**

Matrix Spike Dup (B4D1130-MSD1)	Source: Y404172-01			Prepared: 04/11/2024 Analyzed: 04/13/2024						
Fluorene	0.173	0.020	mg/kg	0.200	ND	86.5	70-130	16.0	20	
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.200	ND	97.4	70-130	11.5	20	
Naphthalene	0.178	0.002	"	0.200	ND	88.8	70-130	15.8	20	
Phenanthrene	0.175	0.020	"	0.200	ND	87.6	70-130	15.1	20	
Pyrene	0.167	0.020	"	0.200	ND	83.3	70-130	14.1	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.2	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	180		"	200		91.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.7	60-130			

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**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 B4D0803 - Saturated Paste Metals**

**Blank (B4D0803-BLK1)**

Prepared: 04/08/2024 Analyzed: 04/10/2024

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 (B4D0803-DUP1)**

**Source: Y404180-09**

Prepared: 04/08/2024 Analyzed: 04/10/2024

Calcium PPM	6.62	10.0	mg/L		6.17			7.04	50	
SAR	ND	0.0100	SAR		8.71				200	
Magnesium PPM	2.24	10.0	mg/L		2.19			2.26	50	
Sodium PPM	105	10.0	"		98.9			5.90	50	

**Batch B4D0906 - DTPA Sorbitol Preparation**

**Blank (B4D0906-BLK1)**

Prepared: 04/09/2024 Analyzed: 04/10/2024

Boron	ND	0.100	mg/L							
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**Duplicate (B4D0906-DUP1)**

**Source: Y404189-01**

Prepared: 04/09/2024 Analyzed: 04/10/2024

Boron	0.832	0.0989	mg/L		0.843			1.26	50	
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 Project: Noble - Dillard USX AB #03-14P

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4D0811 - Saturated Paste pH/EC</b>										
<b>Blank (B4D0811-BLK1)</b>					Prepared: 04/08/2024 Analyzed: 04/09/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B4D0811-DUP1)</b>					<b>Source: Y404180-09</b> Prepared: 04/08/2024 Analyzed: 04/09/2024					
Specific Conductance (EC)	0.574	0.00500	mmhos/cm		0.583			1.68	25	
pH	8.74		pH Units		8.70			0.459	25	

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 Project: Noble - Dillard USX AB #03-14P

**Total Metals by 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2594781 - SW846 3060A</b>										
<b>BLANK (1205699478-BLK)</b>					Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	ND	0.376	mg/kg				-			U
<b>LCS (1205699479-BKS)</b>					Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	3.77	0.383	mg/kg	3.83		98.5	80-120			
<b>DUP (1205699480 D)</b>					Source: 662211001 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	ND	0.414	mg/kg dry		<0.166		0-50	N/A	50	U
<b>MS (1205699481 S)</b>					Source: 662211001 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	2.89	0.414	mg/kg dry	4.14	<0.166	67.4	75-125			
<b>DUP (1205699482 D)</b>					Source: 662218005 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	ND	0.395	mg/kg dry		0.179		0-50	N/A	50	U
<b>MS (1205699483 S)</b>					Source: 662218005 Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	0.791	0.395	mg/kg dry	3.95	0.179	15.5	75-125			
<b>ILCS (1205699484-ILCS)</b>					Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	7.64	0.373	mg/kg	7.62		100	80-120			

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Project: Noble - Dillard USX AB #03-14P

**Notes and Definitions**

Ua Sample is Non-Detect.

U Result not detected above the detection limit

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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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