



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
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: Y402324

Client: Eagle

Client Project ID: Dillard USX AB 0314P

Checklist Completed by: EWS

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/14/24

Airbill #: N/A

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

Cooler Number/Temperature: 1 12.5 °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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 2/15/24

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

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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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)

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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Andrew Newberry
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)

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

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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Andrew Newberry
Project Number: [none]
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)

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: o-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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Andrew Newberry
Project Number: [none]
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)

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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Andrew Newberry
Project Number: [none]
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	8.38		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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8000 W 44th Ave
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	0.703	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: o-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	0.678	0.200	"	"	"	ZZZ	"	"	

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

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
Origins Laboratory, Inc.

100 % 60-130 " " "

J. Bynon

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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-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	8.69		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			"	"	"

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)

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

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)

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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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-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			"	"	"	

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-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
Origins Laboratory, Inc.

101 % 60-130 " " "

J. Bynon

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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-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	8.30		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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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

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
Batch B4B1434 - EPA 3550B										
Blank (B4B1434-BLK1)					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			

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

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
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			

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

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

Matrix Spike (B4B1434-MS1)		Source: Y402230-02			Prepared: 02/14/2024 Analyzed: 02/19/2024					
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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Eagle Environmental Consulting, LLC
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

Matrix Spike Dup (B4B1434-MSD1)		Source: Y402230-02			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			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - 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
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			

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)

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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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
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
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.



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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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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			

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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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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

Matrix Spike (B4B1439-MS1)		Source: Y402279-01			Prepared: 02/15/2024 Analyzed: 02/16/2024					
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			

Matrix Spike Dup (B4B1439-MSD1)		Source: Y402279-01			Prepared: 02/15/2024 Analyzed: 02/16/2024					
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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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

Matrix Spike Dup (B4B1439-MSD1)		Source: Y402279-01			Prepared: 02/15/2024 Analyzed: 02/16/2024					
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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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
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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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
Batch B4B1707 - Saturated Paste pH/EC										
Blank (B4B1707-BLK1)					Prepared: 02/17/2024 Analyzed: 02/19/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4B1707-DUP1)					Source: Y402324-01 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		8.33			0.120	25	

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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.

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