



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.



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.

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

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: SA/4140

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/5/24

Airbill #: N/A

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

Cooler Number/Temperature: 1 46 °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⁾ ?	<u>/</u>			
Is there ice present (document if blue ice is used)	<u>/</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>/</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>/</u>		
Were all samples received intact ⁽¹⁾ ?	<u>/</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>/</u>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<u>/</u>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<u>/</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>/</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>/</u>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u>/</u>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<u>/</u>	
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)			<u>/</u>	
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 (Signature) (Project Manager)

4/9/24
Date/Time Reviewed

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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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

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	B4D1015	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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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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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)

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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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

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-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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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 B4D0817 - EPA 3550B										
Blank (B4D0817-BLK1)					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			

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 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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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 B4D0817 - EPA 3550B										
Matrix Spike (B4D0817-MS1)		Source: Y404157-01			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
Batch B4D0817 - EPA 3550B										
Matrix Spike Dup (B4D0817-MSD1)		Source: Y404157-01			Prepared: 04/08/2024 Analyzed: 04/10/2024					
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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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 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
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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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 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
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
Batch B4D0824 - EPA 3050B										
Matrix Spike (B4D0824-MS1)			Source: Y404211-01		Prepared: 04/08/2024 Analyzed: 04/09/2024					
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
Matrix Spike Dup (B4D0824-MSD1)			Source: Y404211-01		Prepared: 04/08/2024 Analyzed: 04/09/2024					
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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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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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

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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8000 W 44th Ave
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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 B4D1130 - EPA 3580

Matrix Spike (B4D1130-MS1)		Source: Y404172-01			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			

Matrix Spike Dup (B4D1130-MSD1)		Source: Y404172-01			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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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
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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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

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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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 B4D0811 - Saturated Paste pH/EC										
Blank (B4D0811-BLK1)					Prepared: 04/08/2024 Analyzed: 04/09/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4D0811-DUP1)					Source: Y404180-09 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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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
Batch 2594781 - SW846 3060A										
BLANK (1205699478-BLK)					Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	ND	0.376	mg/kg				-			U
LCS (1205699479-BKS)					Prepared: 04/10/2024 Analyzed: 04/10/2024					
Hexavalent Chromium	3.77	0.383	mg/kg	3.83		98.5	80-120			
DUP (1205699480 D)					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
MS (1205699481 S)					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			
DUP (1205699482 D)					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
MS (1205699483 S)					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			
ILCS (1205699484-ILCS)					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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Eagle Environmental Consulting, LLC
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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.

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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Jordan A. Bynon, Project Manager