



June 18, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Pioneer USX #Y07-08D

Project Number - [none]

Attached are your analytical results for Noble - Pioneer USX #Y07-08D received by Origins Laboratory, Inc. May 13, 2024. This project is associated with Origins project number Y405399-01.

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.

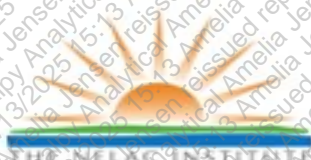
Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

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 - Pioneer USX #Y07-08D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL05@4'	Y405399-01	Soil	May 13, 2024 9:25	05/13/2024 17:03
FL07@4'	Y405399-02	Soil	May 13, 2024 9:50	05/13/2024 17:03

Chain of Custody Modification Request

On 6/3/2024, Garrett Krug from Eagle Environmental contacted Jordan Bynon via email regarding Y405399 requesting that Table 915 Metals be added to both samples. Requested modifications to the chain of custody were made by Jordan Bynon on 6/3/2024.

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 - Pioneer USX #Y07-08D

[illegible]

Origins Laboratory, Inc.

Brynor

Jordan A. Bynon, Project Manager

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ORIGINS

LABORATORY, INC

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

Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 403399

Client: Eagle

Client Project ID: Pioneer USX #407-08D

Checklist Completed by: Justin H

Shipped Via: HV

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

Date/time completed: 5/14/24

Airbill #: N/A

Matrix(s) Received: (Check all that apply):

☒ Soil/Solid

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 143 °C

Thermometer ID: 7003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 8°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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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)

Date/Time Reviewed: 5/15/24

Origins Laboratory, Inc.

Justin H

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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 - Pioneer USX #Y07-08D

FL05@4'
5/13/2024 9:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405399-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.192	0.0988	mg/L	1	B4E1513	05/15/2024	05/16/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E1401	05/14/2024	05/17/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	97.4 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E1433	05/14/2024	05/15/2024	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



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Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

FL05@4'
5/13/2024 9:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405399-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	B4E14 33	05/14/2024	05/15/2024
Surrogate: Toluene-d8	98.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.01	0.499	meq/L	10	[CALC]	05/14/2024	05/15/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E1425	05/14/2024	05/16/2024	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
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Project: Noble - Pioneer USX #Y07-08D

FL05@4'
5/13/2024 9:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405399-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4E1425	05/14/2024	05/16/2024	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %	60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	98.6 %	60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	86.8 %	60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	94.5 %	60-130	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.33	pH Units	1	B4E1420	05/14/2024	05/15/2024
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SAR by 20B Saturated Paste

SAR	0.185	0.0100	SAR	1	B4E1415	05/14/2024	05/15/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.278	0.00500	mmhos/cm	1	B4E1420	05/14/2024	05/15/2024
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Table 915 metals by EPA 6020B

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Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

FL05@4'
5/13/2024 9:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405399-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.19	0.244	mg/kg	10	B4F0331	06/03/2024	06/04/2024
Barium	73.1	8.41	"	"	"	"	"
Cadmium	0.107	0.0841	"	"	"	"	"
Copper	ND	8.41	"	"	"	"	"
Lead	5.95	0.841	"	"	"	"	"
Nickel	5.89	0.841	"	"	"	"	"
Selenium	ND	0.219	"	"	"	"	"
Silver	ND	0.0841	"	"	"	"	"
Zinc	ND	31.1	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.119	0.298	mg/kg dry	1	2624460	06/12/2024	06/12/2024	U
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Eagle Environmental Consulting, LLC
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Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

FL07@4'
5/13/2024 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405399-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4E1513	05/15/2024	05/16/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E1401	05/14/2024	05/17/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	101 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E1433	05/14/2024	05/15/2024	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 - Pioneer USX #Y07-08D

FL07@4'

5/13/2024 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405399-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	B4E14 33	05/14/2024	05/15/2024
Surrogate: Toluene-d8	98.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	05/14/2024	05/15/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E1425	05/14/2024	05/16/2024	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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Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

FL07@4'
5/13/2024 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405399-02 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4E1425	05/14/2024	05/16/2024	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	102 %	60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	100 %	60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	86.8 %	60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.8 %	60-130	"	"	"	"	"	"

pH in Soil by 9045D

pH	7.94	pH Units	1	B4E1420	05/14/2024	05/15/2024
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SAR by 20B Saturated Paste

SAR	0.166	0.0100	SAR	1	B4E1415	05/14/2024	05/15/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0661	0.00500	mmhos/cm	1	B4E1420	05/14/2024	05/15/2024
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Table 915 metals by EPA 6020B

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

Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

FL07@4'
5/13/2024 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405399-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.59	0.251	mg/kg	10	B4F0331	06/03/2024	06/04/2024
Barium	29.6	8.64	"	"	"	"	"
Cadmium	ND	0.0864	"	"	"	"	"
Copper	ND	8.64	"	"	"	"	"
Lead	3.10	0.864	"	"	"	"	"
Nickel	2.51	0.864	"	"	"	"	"
Selenium	ND	0.225	"	"	"	"	"
Silver	ND	0.0864	"	"	"	"	"
Zinc	ND	32.0	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	0.147	0.128	0.321	mg/kg dry	1	2624460	06/12/2024	06/12/2024	J
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

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 B4E1401 - EPA 3550B

Blank (B4E1401-BLK1)

Prepared: 05/14/2024 Analyzed: 05/17/2024

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	24		"	24.9		97.0	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC
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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

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 B4E1401 - EPA 3550B

LCS (B4E1401-BS1)

Prepared: 05/14/2024 Analyzed: 05/17/2024

Diesel (C10-C28)	901	50.0	mg/kg	1000		90.1	70-130			
Residual Range Organics (C28-C40)	948	200	"	1000		94.8	70-130			
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC
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Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

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 B4E1401 - EPA 3550B

Matrix Spike (B4E1401-MS1)

Source: Y405341-01

Prepared: 05/14/2024 Analyzed: 05/17/2024

Diesel (C10-C28)	871	50.0	mg/kg	1000	ND	87.1	70-130
Residual Range Organics (C28-C40)	921	200	"	1000	ND	92.1	70-130
Surrogate: o-Terphenyl	52		"	49.8		104	50-150

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Andrew Newberry
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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E1401 - EPA 3550B

Matrix Spike Dup (B4E1401-MSD1)

Source: Y405341-01

Prepared: 05/14/2024 Analyzed: 05/17/2024

Diesel (C10-C28)	901	50.0	mg/kg	1000	ND	90.1	70-130	3.40	35	
Residual Range Organics (C28-C40)	958	200	"	1000	ND	95.8	70-130	3.98	35	
Surrogate: o-Terphenyl	52		"	49.8		105	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 - Pioneer USX #Y07-08D

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 B4E1433 - EPA 5030 (soil)

Blank (B4E1433-BLK1)

Prepared: 05/14/2024 Analyzed: 05/15/2024

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	0.12		"	0.125		98.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

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 B4E1433 - EPA 5030 (soil)

LCS (B4E1433-BS1)

Prepared: 05/14/2024 Analyzed: 05/15/2024

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.110	0.00380	"	0.100		110	70-130			
Toluene	0.0990	0.00200	"	0.100		99.0	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.206	0.00400	"	0.200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

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 B4E1433 - EPA 5030 (soil)

Matrix Spike (B4E1433-MS1)

Source: Y405379-01

Prepared: 05/14/2024 Analyzed: 05/15/2024

1,2,4-Trimethylbenzene	0.0996	0.00200	mg/kg	0.100	ND	99.6	70-130
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130
Benzene	0.0895	0.00200	"	0.100	ND	89.5	70-130
Ethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130
Naphthalene	0.0822	0.00380	"	0.100	ND	82.2	70-130
Toluene	0.0913	0.00200	"	0.100	ND	91.3	70-130
o-Xylene	0.0989	0.00200	"	0.100	ND	98.9	70-130
m,p-Xylene	0.196	0.00400	"	0.200	ND	98.1	70-130
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.1	70-130
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

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 B4E1433 - EPA 5030 (soil)

Matrix Spike Dup (B4E1433-MSD1)

Source: Y405379-01

Prepared: 05/14/2024 Analyzed: 05/15/2024

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100	ND	110	70-130	9.87	20	
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130	8.73	20	
Benzene	0.104	0.00200	"	0.100	ND	104	70-130	15.0	20	
Ethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130	9.03	20	
Naphthalene	0.107	0.00380	"	0.100	ND	107	70-130	26.6	20	QR-02
Toluene	0.103	0.00200	"	0.100	ND	103	70-130	12.4	20	
o-Xylene	0.110	0.00200	"	0.100	ND	110	70-130	10.6	20	
m,p-Xylene	0.214	0.00400	"	0.200	ND	107	70-130	8.86	20	
Surrogate: 1,2-Dichloroethane-d4	0.12	"	"	0.125		95.9	70-130			
Surrogate: Toluene-d8	0.13	"	"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13	"	"	0.125		102	70-130			

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

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 B4F0331 - EPA 3050B

Blank (B4F0331-BLK1)

Prepared: 06/03/2024 Analyzed: 06/04/2024

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 (B4F0331-BS1)

Prepared: 06/03/2024 Analyzed: 06/04/2024

Arsenic	5.56	0.290	mg/kg	5.00	111	80-120
Barium	540	10.0	"	500	108	80-120
Cadmium	5.49	0.100	"	5.00	110	80-120
Copper	55.0	10.0	"	50.0	110	80-120
Lead	5.26	1.00	"	5.00	105	80-120
Nickel	5.17	1.00	"	5.00	103	80-120
Selenium	10.2	0.260	"	9.50	107	80-120
Silver	5.25	0.100	"	5.00	105	80-120
Zinc	50.9	37.0	"	50.0	102	80-120

Matrix Spike (B4F0331-MS1)

Source: Y406017-02

Prepared: 06/03/2024 Analyzed: 06/04/2024

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 - Pioneer USX #Y07-08D

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 B4F0331 - EPA 3050B

Matrix Spike (B4F0331-MS1)

Source: Y406017-02

Prepared: 06/03/2024 Analyzed: 06/04/2024

Arsenic	8.89	0.250	mg/kg	4.31	4.29	107	75-125			
Barium	588	8.62	"	431	130	106	75-125			
Cadmium	4.58	0.0862	"	4.31	0.120	103	75-125			
Copper	50.7	8.62	"	43.1	7.84	99.5	75-125			
Lead	13.5	0.862	"	4.31	8.40	119	75-125			
Nickel	11.5	0.862	"	4.31	8.42	72.6	75-125			QM-07
Selenium	8.60	0.224	"	8.19	0.450	99.5	75-125			
Silver	4.32	0.0862	"	4.31	0.0247	99.7	75-125			
Zinc	66.4	31.9	"	43.1	26.7	92.3	75-125			

Matrix Spike Dup (B4F0331-MSD1)

Source: Y406017-02

Prepared: 06/03/2024 Analyzed: 06/04/2024

Arsenic	9.35	0.263	mg/kg	4.53	4.29	112	75-125	5.05	20	
Barium	642	9.06	"	453	130	113	75-125	8.87	20	
Cadmium	5.23	0.0906	"	4.53	0.120	113	75-125	13.3	20	
Copper	56.2	9.06	"	45.3	7.84	107	75-125	10.3	20	
Lead	14.7	0.906	"	4.53	8.40	140	75-125	8.72	20	QM-07
Nickel	12.9	0.906	"	4.53	8.42	98.9	75-125	11.1	20	
Selenium	9.94	0.236	"	8.61	0.450	110	75-125	14.5	20	
Silver	4.82	0.0906	"	4.53	0.0247	106	75-125	11.0	20	
Zinc	73.5	33.5	"	45.3	26.7	103	75-125	10.1	20	

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 - Pioneer USX #Y07-08D

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 B4E1425 - EPA 3580

Blank (B4E1425-BLK1)

Prepared: 05/14/2024 Analyzed: 05/16/2024

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		101	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	170		"	200		87.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.5	60-130			

LCS (B4E1425-BS1)

Prepared: 05/14/2024 Analyzed: 05/16/2024

1-Methylnaphthalene	0.180	0.002	mg/kg	0.200		90.1	70-130
2-Methylnaphthalene	0.181	0.002	"	0.200		90.7	70-130
Acenaphthene	0.178	0.020	"	0.200		88.9	70-130
Anthracene	0.180	0.020	"	0.200		90.0	70-130

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



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

Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

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 B4E1425 - EPA 3580

LCS (B4E1425-BS1)

Prepared: 05/14/2024 Analyzed: 05/16/2024

Benzo (a) anthracene	0.180	0.005	mg/kg	0.200		90.1	70-130
Benzo (a) pyrene	0.180	0.020	"	0.200		90.0	70-130
Benzo (b) fluoranthene	0.186	0.020	"	0.200		92.9	70-130
Benzo (g,h,i) perylene	0.174	0.020	"	0.200		87.0	70-130
Benzo (k) fluoranthene	0.184	0.020	"	0.200		91.9	70-130
Chrysene	0.191	0.020	"	0.200		95.6	70-130
Dibenz (a,h) anthracene	0.194	0.020	"	0.200		96.9	70-130
Fluoranthene	0.187	0.020	"	0.200		93.7	70-130
Fluorene	0.180	0.020	"	0.200		90.2	70-130
Indeno (1,2,3-cd) pyrene	0.174	0.020	"	0.200		87.1	70-130
Naphthalene	0.179	0.002	"	0.200		89.6	70-130
Phenanthrene	0.180	0.020	"	0.200		90.0	70-130
Pyrene	0.161	0.020	"	0.200		80.4	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130
Surrogate: Anthracene-d10	200		"	200		101	60-130
Surrogate: Pyrene-d10	180		"	200		90.3	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.2	60-130

Matrix Spike (B4E1425-MS1)

Source: Y405336-01

Prepared: 05/14/2024 Analyzed: 05/17/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	ND	96.6	70-130
2-Methylnaphthalene	0.193	0.002	"	0.200	ND	96.5	70-130
Acenaphthene	0.194	0.020	"	0.200	ND	96.9	70-130
Anthracene	0.193	0.020	"	0.200	ND	96.6	70-130
Benzo (a) anthracene	0.201	0.005	"	0.200	ND	100	70-130
Benzo (a) pyrene	0.188	0.020	"	0.200	ND	94.1	70-130
Benzo (b) fluoranthene	0.199	0.020	"	0.200	0.0003	99.4	70-130
Benzo (g,h,i) perylene	0.190	0.020	"	0.200	ND	95.2	70-130

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

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 B4E1425 - EPA 3580

Matrix Spike (B4E1425-MS1)

Source: Y405336-01

Prepared: 05/14/2024 Analyzed: 05/17/2024

Benzo (k) fluoranthene	0.183	0.020	mg/kg	0.200	0.0005	91.2	70-130			
Chrysene	0.204	0.020	"	0.200	ND	102	70-130			
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	ND	108	70-130			
Fluoranthene	0.203	0.020	"	0.200	ND	101	70-130			
Fluorene	0.200	0.020	"	0.200	ND	100	70-130			
Indeno (1,2,3-cd) pyrene	0.187	0.020	"	0.200	ND	93.5	70-130			
Naphthalene	0.191	0.002	"	0.200	ND	95.7	70-130			
Phenanthrene	0.192	0.020	"	0.200	ND	96.0	70-130			
Pyrene	0.172	0.020	"	0.200	ND	85.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		99.5	60-130			
Surrogate: Pyrene-d10	180		"	200		87.6	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.8	60-130			

Matrix Spike Dup (B4E1425-MSD1)

Source: Y405336-01

Prepared: 05/14/2024 Analyzed: 05/16/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	ND	96.5	70-130	0.136	20	
2-Methylnaphthalene	0.192	0.002	"	0.200	ND	96.2	70-130	0.355	20	
Acenaphthene	0.193	0.020	"	0.200	ND	96.6	70-130	0.317	20	
Anthracene	0.194	0.020	"	0.200	ND	96.9	70-130	0.389	20	
Benzo (a) anthracene	0.192	0.005	"	0.200	ND	95.8	70-130	4.70	20	
Benzo (a) pyrene	0.190	0.020	"	0.200	ND	95.1	70-130	1.07	20	
Benzo (b) fluoranthene	0.200	0.020	"	0.200	0.0003	100	70-130	0.708	20	
Benzo (g,h,i) perylene	0.189	0.020	"	0.200	ND	94.6	70-130	0.693	20	
Benzo (k) fluoranthene	0.186	0.020	"	0.200	0.0005	92.8	70-130	1.74	20	
Chrysene	0.202	0.020	"	0.200	ND	101	70-130	0.831	20	
Dibenz (a,h) anthracene	0.215	0.020	"	0.200	ND	108	70-130	0.269	20	
Fluoranthene	0.206	0.020	"	0.200	ND	103	70-130	1.39	20	

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 - Pioneer USX #Y07-08D

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 B4E1425 - EPA 3580

Matrix Spike Dup (B4E1425-MSD1)

Source: Y405336-01

Prepared: 05/14/2024 Analyzed: 05/16/2024

Fluorene	0.195	0.020	mg/kg	0.200	ND	97.5	70-130	2.59	20	
Indeno (1,2,3-cd) pyrene	0.196	0.020	"	0.200	ND	97.8	70-130	4.46	20	
Naphthalene	0.191	0.002	"	0.200	ND	95.4	70-130	0.365	20	
Phenanthrene	0.195	0.020	"	0.200	ND	97.4	70-130	1.51	20	
Pyrene	0.171	0.020	"	0.200	ND	85.6	70-130	0.344	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	180		"	200		87.6	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		95.6	60-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

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 B4E1415 - Saturated Paste Metals

Blank (B4E1415-BLK1)

Prepared: 05/14/2024 Analyzed: 05/15/2024

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

Duplicate (B4E1415-DUP1)

Source: Y405360-01

Prepared: 05/14/2024 Analyzed: 05/15/2024

SAR	ND	0.0100	SAR	0.116	200
Calcium PPM	18.0	10.0	mg/L	16.3	50
Magnesium PPM	2.53	10.0	"	2.31	50
Sodium PPM	2.25	10.0	"	1.89	50

Batch B4E1513 - DTPA Sorbitol Preparation

Blank (B4E1513-BLK1)

Prepared: 05/15/2024 Analyzed: 05/16/2024

Boron	ND	0.100	mg/L
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Duplicate (B4E1513-DUP1)

Source: Y405399-01

Prepared: 05/15/2024 Analyzed: 05/16/2024

Boron	0.181	0.0988	mg/L	0.192	50
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Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



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

Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E1420 - Saturated Paste pH/EC

Blank (B4E1420-BLK1)

Prepared: 05/14/2024 Analyzed: 05/15/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4E1420-DUP1)

Source: Y405360-01

Prepared: 05/14/2024 Analyzed: 05/15/2024

Specific Conductance (EC) 0.149 0.00500 mmhos/cm
pH 7.93 pH Units

0.138 7.82 25
7.90 0.379 25

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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

Total Metals 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2624460 - SW846 3060A										
BLANK (1205757402-BLK)										
Hexavalent Chromium	ND	0.399	mg/kg				-			U
LCS (1205757403-BKS)										
Hexavalent Chromium	3.87	0.390	mg/kg	3.90		99.3	80-120			
DUP (1205757404 D)										
Hexavalent Chromium	ND	0.324	mg/kg dry		<0.130		0-50	N/A	50	U
MS (1205757405 S)										
Hexavalent Chromium	2.04	0.325	mg/kg dry	3.25	<0.130	61.7	75-125			
DUP (1205757406 D)										
Hexavalent Chromium	ND	0.284	mg/kg dry		<0.113		0-50	N/A	50	U
MS (1205757407 S)										
Hexavalent Chromium	2.54	0.284	mg/kg dry	2.84	<0.113	88.1	75-125			
ILCS (1205757408-ILCS)										
Hexavalent Chromium	7.72	0.374	mg/kg	7.59		102	80-120			

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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Pioneer USX #Y07-08D

Notes and Definitions

- Ua Sample is Non-Detect.
- U Result not detected above the detection limit
- 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.
- 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.

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