



January 16, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Wells Ranch
#AA35-62-1AHNC**

Project Number - [none]

Attached are your analytical results for Noble - Wells Ranch #AA35-62-1AHNC received by Origins Laboratory, Inc. January 04, 2024. This project is associated with Origins project number Y401078-01.

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 - Wells Ranch #AA35-62-1AHNC

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@3'	Y401078-01	Soil	January 3, 2024 12:46	01/04/2024 15:17
WH-SS-02@3'	Y401078-02	Soil	January 3, 2024 12:48	01/04/2024 15:17
WH-SS-03@3'	Y401078-03	Soil	January 3, 2024 12:50	01/04/2024 15:17
WH-SS-04@3'	Y401078-04	Soil	January 3, 2024 12:52	01/04/2024 15:17
WH-FS-01@4'	Y401078-05	Soil	January 3, 2024 12:54	01/04/2024 15:17
Background-01@3'	Y401078-06	Soil	January 3, 2024 13:15	01/04/2024 15:17

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4401078

Client: Eagle

Client Project ID: Wells Ranch AA35-62-1A4

Checklist Completed by: SLK

Shipped Via: HD

Date/time completed: 1/4/24

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

Airbill #: N/A

Matrix(s) Received: (Check all that apply): 0 Soil/Solid Water Other:

Cooler Number/Temperature: 1118 °C °C °C (Describe) °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			X	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			X	
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ½ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
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: JB (Project Manager)

1-5-24
Date/Time Reviewed

Origins Laboratory, Inc.

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 - Wells Ranch #AA35-62-1AHNC

WH-SS-01@3'
1/3/2024 12:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.105	0.100	mg/L	1	B4A0508	01/05/2024	01/08/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A0517	01/05/2024	01/08/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.6 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A0430	01/04/2024	01/06/2024	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

Origins Laboratory, Inc.



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Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

WH-SS-01@3'
1/3/2024 12:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	B4A04 30	01/04/2024	01/06/2024
Surrogate: Toluene-d8	96.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	88.7 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.28	0.499	meq/L	10	[CALC]	01/06/2024	01/08/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.983	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A0506	01/05/2024	01/05/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U

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Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

WH-SS-01@3'
1/3/2024 12:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4A0506	01/05/2024	01/05/2024	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	103 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.3 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.49	pH Units	1	B4A0608	01/06/2024	01/08/2024
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SAR by 20B Saturated Paste

SAR	1.04	0.0100	SAR	1	B4A0604	01/06/2024	01/08/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.273	0.00500	mmhos/cm	1	B4A0608	01/06/2024	01/08/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

WH-SS-01@3'

1/3/2024 12:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.92	0.0917	mg/kg	10	B4A0437	01/05/2024	01/08/2024
Barium	102	9.17	"	"	"	"	"
Cadmium	0.116	0.0917	"	"	"	"	"
Copper	ND	9.17	"	"	"	"	"
Lead	5.32	0.917	"	"	"	"	"
Nickel	6.75	0.917	"	"	"	"	"
Selenium	ND	0.0917	"	"	"	"	"
Silver	ND	0.0917	"	"	"	"	"
Zinc	25.2	9.17	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L727055	01/03/2024	01/11/2024
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

WH-SS-02@3'
1/3/2024 12:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.110	0.101	mg/L	1	B4A0508	01/05/2024	01/08/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A0517	01/05/2024	01/08/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.0 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A0430	01/04/2024	01/06/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

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Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

WH-SS-02@3'
1/3/2024 12:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130	B4A04 30	01/04/2024	01/06/2024
Surrogate: Toluene-d8	96.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	89.5 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.13	0.499	meq/L	10	[CALC]	01/06/2024	01/08/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.760	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A0506	01/05/2024	01/05/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U

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Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

WH-SS-02@3'
1/3/2024 12:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-02 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4A0506	01/05/2024	01/05/2024	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.9 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	103 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.2 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.39	pH Units	1	B4A0608	01/06/2024	01/08/2024
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SAR by 20B Saturated Paste

SAR	0.632	0.0100	SAR	1	B4A0604	01/06/2024	01/08/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.353	0.00500	mmhos/cm	1	B4A0608	01/06/2024	01/08/2024
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Table 915 metals by EPA 6020B

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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

WH-SS-02@3'

1/3/2024 12:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.78	0.0912	mg/kg	10	B4A0437	01/05/2024	01/08/2024
Barium	95.6	9.12	"	"	"	"	"
Cadmium	0.287	0.0912	"	"	"	"	"
Copper	ND	9.12	"	"	"	"	"
Lead	6.85	0.912	"	"	"	"	"
Nickel	11.0	0.912	"	"	"	"	"
Selenium	ND	0.0912	"	"	"	"	"
Silver	ND	0.0912	"	"	"	"	"
Zinc	39.7	9.12	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L727055	01/03/2024	01/11/2024
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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

WH-SS-03@3'
1/3/2024 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4A0508	01/05/2024	01/08/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A0517	01/05/2024	01/08/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.0 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A0430	01/04/2024	01/06/2024	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

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 - Wells Ranch #AA35-62-1AHNC

WH-SS-03@3'
1/3/2024 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	B4A04 30	01/04/2024	01/06/2024
Surrogate: Toluene-d8	96.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	89.0 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	01/06/2024	01/08/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A0506	01/05/2024	01/05/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U

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8000 W 44th Ave
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Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

WH-SS-03@3'
1/3/2024 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-03 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4A0506	01/05/2024	01/05/2024	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.2 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.4 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	100 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.53	pH Units	1	B4A0608	01/06/2024	01/08/2024
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SAR by 20B Saturated Paste

SAR	0.494	0.0100	SAR	1	B4A0604	01/06/2024	01/08/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.412	0.00500	mmhos/cm	1	B4A0608	01/06/2024	01/08/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

WH-SS-03@3'

1/3/2024 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.23	0.0882	mg/kg	10	B4A0437	01/05/2024	01/08/2024
Barium	87.7	8.82	"	"	"	"	"
Cadmium	0.200	0.0882	"	"	"	"	"
Copper	ND	8.82	"	"	"	"	"
Lead	5.88	0.882	"	"	"	"	"
Nickel	6.84	0.882	"	"	"	"	"
Selenium	ND	0.0882	"	"	"	"	"
Silver	ND	0.0882	"	"	"	"	"
Zinc	33.7	8.82	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L727059	01/03/2024	01/11/2024
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Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

WH-SS-04@3'
1/3/2024 12:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0990	mg/L	1	B4A0508	01/05/2024	01/08/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A0517	01/05/2024	01/08/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.3 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A0430	01/04/2024	01/06/2024	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

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 - Wells Ranch #AA35-62-1AHNC

WH-SS-04@3'
1/3/2024 12:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	B4A04 30	01/04/2024	01/06/2024
Surrogate: Toluene-d8	96.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.2 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.21	0.499	meq/L	10	[CALC]	01/06/2024	01/08/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.003	0.002	mg/kg	1	B4A0506	01/05/2024	01/05/2024
2-Methylnaphthalene	0.005	0.002	"	"	"	"	"
Acenaphthene	ND	0.020	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	U

Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

WH-SS-04@3'
1/3/2024 12:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-04 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4A0506	01/05/2024	01/05/2024	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	95.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	102 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.41	pH Units	1	B4A0608	01/06/2024	01/08/2024
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SAR by 20B Saturated Paste

SAR	0.295	0.0100	SAR	1	B4A0604	01/06/2024	01/08/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.234	0.00500	mmhos/cm	1	B4A0608	01/06/2024	01/08/2024
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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 - Wells Ranch #AA35-62-1AHNC

WH-SS-04@3'

1/3/2024 12:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.48	0.0920	mg/kg	10	B4A0437	01/05/2024	01/08/2024
Barium	133	9.20	"	"	"	"	"
Cadmium	0.125	0.0920	"	"	"	"	"
Copper	ND	9.20	"	"	"	"	"
Lead	5.08	0.920	"	"	"	"	"
Nickel	4.88	0.920	"	"	"	"	"
Selenium	ND	0.0920	"	"	"	"	"
Silver	ND	0.0920	"	"	"	"	"
Zinc	29.5	9.20	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L727059	01/03/2024	01/11/2024
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Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

WH-FS-01@4'
1/3/2024 12:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.243	0.102	mg/L	1	B4A0508	01/05/2024	01/08/2024
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	65.6	25.0	mg/kg	1	B4A0517	01/05/2024	01/08/2024
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	" U

Surrogate: o-Terphenyl	84.4 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.137	0.00200	mg/kg	1	B4A0430	01/04/2024	01/06/2024
1,3,5-Trimethylbenzene	0.0345	0.00200	"	"	"	"	"
Benzene	0.0121	0.00200	"	"	"	"	"
Ethylbenzene	0.0522	0.00200	"	"	"	"	"
Naphthalene	0.0218	0.00380	"	"	"	"	"
Toluene	0.158	0.00200	"	"	"	"	"
Xylenes, total	0.371	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	8.19	0.200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130	"	"	"
Surrogate: Toluene-d8	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 - Wells Ranch #AA35-62-1AHNC

WH-FS-01@4'
1/3/2024 12:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	87.4 %	70-130	B4A04 30	01/04/2024	01/06/2024
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Metals by Saturated Paste by EPA 6010

Calcium	3.02	0.499	meq/L	10	[CALC]	01/06/2024	01/08/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.845	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.096	0.002	mg/kg	1	B4A0506	01/05/2024	01/05/2024	
2-Methylnaphthalene	0.136	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	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 - Wells Ranch #AA35-62-1AHNC

WH-FS-01@4'

1/3/2024 12:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-05 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4A0506	01/05/2024	01/05/2024	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.8 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.55	pH Units	1	B4A0608	01/06/2024	01/08/2024
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SAR by 20B Saturated Paste

SAR	0.617	0.0100	SAR	1	B4A0604	01/06/2024	01/08/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.629	0.00500	mmhos/cm	1	B4A0608	01/06/2024	01/08/2024
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Table 915 metals by EPA 6020B

Arsenic	2.61	0.0893	mg/kg	10	B4A0437	01/05/2024	01/08/2024
Barium	7350	8.93	"	"	"	"	"

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 - Wells Ranch #AA35-62-1AHNC

WH-FS-01@4'

1/3/2024 12:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-05 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.328		0.0893	mg/kg	10	B4A0437	01/05/2024	01/08/2024	
Copper	13.9		8.93	"	"	"	"	"	"
Lead	3.91		0.893	"	"	"	"	"	"
Nickel	6.46		0.893	"	"	"	"	"	"
Selenium	ND		0.0893	"	"	"	"	"	"
Silver	ND		0.0893	"	"	"	"	"	"
Zinc	97.2		8.93	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L727059	01/03/2024	01/11/2024	
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Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Background-01@3'
1/3/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.165	0.0991	mg/L	1	B4A0508	01/05/2024	01/08/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.99	0.499	meq/L	10	[CALC]	01/06/2024	01/08/2024
Magnesium	0.846	0.823	"	"	"	"	"
Sodium	0.634	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.46		pH Units	1	B4A0608	01/06/2024	01/08/2024
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SAR by 20B Saturated Paste

SAR	0.532	0.0100	SAR	1	B4A0604	01/06/2024	01/08/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.324	0.00500	mmhos/cm	1	B4A0608	01/06/2024	01/08/2024
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Table 915 metals by EPA 6020B

Arsenic	2.68	0.0842	mg/kg	10	B4A0437	01/05/2024	01/08/2024
Barium	123	8.42	"	"	"	"	"
Cadmium	0.195	0.0842	"	"	"	"	"
Copper	ND	8.42	"	"	"	"	"

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 - Wells Ranch #AA35-62-1AHNC

Background-01@3'
1/3/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401078-06 (Soil)

Table 915 metals by EPA 6020B

Lead	6.24	0.842	mg/kg	10	B4A0437	01/05/2024	01/08/2024
Nickel	7.88	0.842	"	"	"	"	"
Selenium	ND	0.0842	"	"	"	"	"
Silver	ND	0.0842	"	"	"	"	"
Zinc	28.4	8.42	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L727059	01/03/2024	01/11/2024
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Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

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 B4A0430 - EPA 5030 (soil)										
Blank (B4A0430-BLK1)					Prepared: 01/04/2024 Analyzed: 01/05/2024					
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	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.0		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	88.6		70-130			

Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

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 B4A0430 - EPA 5030 (soil)

LCS (B4A0430-BS1)

Prepared: 01/04/2024 Analyzed: 01/05/2024

1,2,4-Trimethylbenzene	0.0961	0.00200	mg/kg	0.100		96.1	70-130			
1,3,5-Trimethylbenzene	0.0964	0.00200	"	0.100		96.4	70-130			
Benzene	0.0978	0.00200	"	0.100		97.8	70-130			
Ethylbenzene	0.0979	0.00200	"	0.100		97.9	70-130			
Naphthalene	0.0885	0.00380	"	0.100		88.5	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.0920	0.00200	"	0.100		92.0	70-130			
m,p-Xylene	0.193	0.00400	"	0.200		96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.8	70-130			

Origins Laboratory, Inc.



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

Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

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 B4A0430 - EPA 5030 (soil)										
Matrix Spike (B4A0430-MS1)		Source: Y401053-01			Prepared: 01/04/2024 Analyzed: 01/05/2024					
1,2,4-Trimethylbenzene	0.0852	0.00200	mg/kg	0.100	ND	85.2	70-130			
1,3,5-Trimethylbenzene	0.0852	0.00200	"	0.100	ND	85.2	70-130			
Benzene	0.0926	0.00200	"	0.100	ND	92.6	70-130			
Ethylbenzene	0.0854	0.00200	"	0.100	ND	85.4	70-130			
Naphthalene	0.0928	0.00380	"	0.100	ND	92.8	70-130			
Toluene	0.0937	0.00200	"	0.100	ND	93.7	70-130			
o-Xylene	0.0839	0.00200	"	0.100	ND	83.9	70-130			
m,p-Xylene	0.172	0.00400	"	0.200	ND	85.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.5	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 - Wells Ranch #AA35-62-1AHNC

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 B4A0430 - EPA 5030 (soil)										
Matrix Spike Dup (B4A0430-MSD1)			Source: Y401053-01		Prepared: 01/04/2024 Analyzed: 01/05/2024					
1,2,4-Trimethylbenzene	0.0881	0.00200	mg/kg	0.100	ND	88.1	70-130	3.42	20	
1,3,5-Trimethylbenzene	0.0861	0.00200	"	0.100	ND	86.1	70-130	1.10	20	
Benzene	0.0947	0.00200	"	0.100	ND	94.7	70-130	2.28	20	
Ethylbenzene	0.0860	0.00200	"	0.100	ND	86.0	70-130	0.770	20	
Naphthalene	0.0969	0.00380	"	0.100	ND	96.9	70-130	4.32	20	
Toluene	0.0956	0.00200	"	0.100	ND	95.6	70-130	2.09	20	
o-Xylene	0.0851	0.00200	"	0.100	ND	85.1	70-130	1.37	20	
m,p-Xylene	0.173	0.00400	"	0.200	ND	86.5	70-130	0.708	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.9	70-130			

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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

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 B4A0517 - EPA 3550B										
Blank (B4A0517-BLK1)					Prepared: 01/05/2024 Analyzed: 01/08/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		87.6	50-150			

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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

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 B4A0517 - EPA 3550B

LCS (B4A0517-BS1)

Prepared: 01/05/2024 Analyzed: 01/08/2024

Diesel (C10-C28)	858	50.0	mg/kg	1000		85.8	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	55		"	49.8		111	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 - Wells Ranch #AA35-62-1AHNC

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 B4A0517 - EPA 3550B

Matrix Spike (B4A0517-MS1)		Source: Y401074-01			Prepared: 01/05/2024 Analyzed: 01/08/2024					
Diesel (C10-C28)	865	50.0	mg/kg	1000	ND	86.5	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	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 - Wells Ranch #AA35-62-1AHNC

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 B4A0517 - EPA 3550B										
Matrix Spike Dup (B4A0517-MSD1)		Source: Y401074-01			Prepared: 01/05/2024 Analyzed: 01/08/2024					
Diesel (C10-C28)	859	50.0	mg/kg	1000	ND	85.9	70-130	0.724	35	
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130	1.04	35	
Surrogate: o-Terphenyl	43		"	49.8		86.1	50-150			

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Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

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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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 B4A0437 - EPA 3050B

Blank (B4A0437-BLK1)

Prepared: 01/05/2024 Analyzed: 01/08/2024

Arsenic	ND	0.100	mg/kg
Barium	ND	1.00	"
Cadmium	ND	0.0100	"
Copper	ND	1.00	"
Lead	ND	0.100	"
Nickel	ND	0.100	"
Selenium	ND	0.0100	"
Silver	ND	0.0100	"
Zinc	ND	1.00	"

LCS (B4A0437-BS1)

Prepared: 01/05/2024 Analyzed: 01/08/2024

Arsenic	5.15	0.0100	mg/kg	5.00	103	80-120
Barium	501	1.00	"	500	100	80-120
Cadmium	5.10	0.0100	"	5.00	102	80-120
Copper	51.2	1.00	"	50.0	102	80-120
Lead	4.98	0.100	"	5.00	99.5	80-120
Nickel	5.46	0.100	"	5.00	109	80-120
Selenium	4.72	0.0100	"	5.00	94.3	80-120
Silver	5.20	0.0100	"	5.00	104	80-120
Zinc	51.4	1.00	"	50.0	103	80-120

Matrix Spike (B4A0437-MS1)

Source: Y401068-12

Prepared: 01/05/2024 Analyzed: 01/08/2024

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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

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 B4A0437 - EPA 3050B

Matrix Spike (B4A0437-MS1)		Source: Y401068-12			Prepared: 01/05/2024 Analyzed: 01/08/2024					
Arsenic	7.68	0.0858	mg/kg	4.29	3.13	106	75-125			QM-07
Barium	693	8.58	"	429	136	130	75-125			
Cadmium	4.45	0.0858	"	4.29	0.150	100	75-125			
Copper	45.6	8.58	"	42.9	7.64	88.6	75-125			
Lead	10.8	0.858	"	4.29	6.76	93.4	75-125			
Nickel	12.2	0.858	"	4.29	8.37	89.3	75-125			
Selenium	4.58	0.0858	"	4.29	0.0832	105	75-125			
Silver	4.34	0.0858	"	4.29	0.0182	101	75-125			
Zinc	74.1	8.58	"	42.9	34.0	93.6	75-125			
Matrix Spike Dup (B4A0437-MSD1)		Source: Y401068-12			Prepared: 01/05/2024 Analyzed: 01/08/2024					
Arsenic	8.57	0.0950	mg/kg	4.75	3.13	114	75-125	10.9	20	
Barium	637	9.50	"	475	136	105	75-125	8.45	20	
Cadmium	5.20	0.0950	"	4.75	0.150	106	75-125	15.6	20	
Copper	54.3	9.50	"	47.5	7.64	98.3	75-125	17.4	20	
Lead	12.1	0.950	"	4.75	6.76	112	75-125	11.5	20	
Nickel	13.8	0.950	"	4.75	8.37	115	75-125	12.4	20	
Selenium	4.82	0.0950	"	4.75	0.0832	99.6	75-125	5.05	20	
Silver	5.22	0.0950	"	4.75	0.0182	109	75-125	18.4	20	
Zinc	87.0	9.50	"	47.5	34.0	112	75-125	16.0	20	

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Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

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 B4A0506 - EPA 3580

Blank (B4A0506-BLK1)

Prepared: 01/05/2024 Analyzed: 01/05/2024

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	200		ug/kg	200		97.5	60-130			
Surrogate: Anthracene-d10	190		"	200		97.4	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

LCS (B4A0506-BS1)

Prepared: 01/05/2024 Analyzed: 01/05/2024

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200		101	70-130			
2-Methylnaphthalene	0.197	0.002	"	0.200		98.5	70-130			
Acenaphthene	0.182	0.020	"	0.200		91.0	70-130			
Anthracene	0.172	0.020	"	0.200		86.0	70-130			

Origins Laboratory, Inc.



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Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

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 B4A0506 - EPA 3580

LCS (B4A0506-BS1)

Prepared: 01/05/2024 Analyzed: 01/05/2024

Benzo (a) anthracene	0.194	0.005	mg/kg	0.200		97.0	70-130
Benzo (a) pyrene	0.231	0.020	"	0.200		116	70-130
Benzo (b) fluoranthene	0.201	0.020	"	0.200		101	70-130
Benzo (g,h,i) perylene	0.212	0.020	"	0.200		106	70-130
Benzo (k) fluoranthene	0.176	0.020	"	0.200		88.1	70-130
Chrysene	0.189	0.020	"	0.200		94.6	70-130
Dibenz (a,h) anthracene	0.203	0.020	"	0.200		101	70-130
Fluoranthene	0.184	0.020	"	0.200		91.8	70-130
Fluorene	0.182	0.020	"	0.200		90.8	70-130
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200		91.1	70-130
Naphthalene	0.196	0.002	"	0.200		97.8	70-130
Phenanthrene	0.184	0.020	"	0.200		92.2	70-130
Pyrene	0.193	0.020	"	0.200		96.6	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		97.5	60-130
Surrogate: Anthracene-d10	200		"	200		99.1	60-130
Surrogate: Pyrene-d10	200		"	200		99.2	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130

Matrix Spike (B4A0506-MS1)

Source: Y401051-01

Prepared: 01/05/2024 Analyzed: 01/05/2024

1-Methylnaphthalene	0.208	0.002	mg/kg	0.200	0.0006	104	70-130
2-Methylnaphthalene	0.206	0.002	"	0.200	0.001	103	70-130
Acenaphthene	0.188	0.020	"	0.200	ND	93.8	70-130
Anthracene	0.179	0.020	"	0.200	ND	89.6	70-130
Benzo (a) anthracene	0.199	0.005	"	0.200	0.001	98.8	70-130
Benzo (a) pyrene	0.234	0.020	"	0.200	ND	117	70-130
Benzo (b) fluoranthene	0.214	0.020	"	0.200	0.002	106	70-130
Benzo (g,h,i) perylene	0.214	0.020	"	0.200	ND	107	70-130

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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

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 B4A0506 - EPA 3580

Matrix Spike (B4A0506-MS1)		Source: Y401051-01			Prepared: 01/05/2024 Analyzed: 01/05/2024					
Benzo (k) fluoranthene	0.188	0.020	mg/kg	0.200	ND	94.0	70-130			
Chrysene	0.196	0.020	"	0.200	0.0009	97.7	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	ND	98.2	70-130			
Fluoranthene	0.190	0.020	"	0.200	0.0007	94.8	70-130			
Fluorene	0.188	0.020	"	0.200	ND	93.9	70-130			
Indeno (1,2,3-cd) pyrene	0.191	0.020	"	0.200	0.002	94.6	70-130			
Naphthalene	0.201	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.190	0.020	"	0.200	ND	95.0	70-130			
Pyrene	0.198	0.020	"	0.200	ND	99.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.1	60-130			
Surrogate: Anthracene-d10	200		"	200		99.0	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike Dup (B4A0506-MSD1)		Source: Y401051-01			Prepared: 01/05/2024 Analyzed: 01/05/2024					
1-Methylnaphthalene	0.214	0.002	mg/kg	0.200	0.0006	107	70-130	2.65	20	
2-Methylnaphthalene	0.211	0.002	"	0.200	0.001	105	70-130	2.10	20	
Acenaphthene	0.193	0.020	"	0.200	ND	96.6	70-130	2.92	20	
Anthracene	0.184	0.020	"	0.200	ND	91.8	70-130	2.40	20	
Benzo (a) anthracene	0.206	0.005	"	0.200	0.001	103	70-130	3.72	20	
Benzo (a) pyrene	0.222	0.020	"	0.200	ND	111	70-130	5.16	20	
Benzo (b) fluoranthene	0.209	0.020	"	0.200	0.002	103	70-130	2.36	20	
Benzo (g,h,i) perylene	0.217	0.020	"	0.200	ND	108	70-130	1.23	20	
Benzo (k) fluoranthene	0.209	0.020	"	0.200	ND	105	70-130	10.7	20	
Chrysene	0.201	0.020	"	0.200	0.0009	100	70-130	2.35	20	
Dibenz (a,h) anthracene	0.219	0.020	"	0.200	ND	109	70-130	10.9	20	
Fluoranthene	0.193	0.020	"	0.200	0.0007	96.2	70-130	1.39	20	

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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

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 B4A0506 - EPA 3580

Matrix Spike Dup (B4A0506-MSD1)		Source: Y401051-01			Prepared: 01/05/2024 Analyzed: 01/05/2024					
Fluorene	0.190	0.020	mg/kg	0.200	ND	94.8	70-130	1.01	20	
Indeno (1,2,3-cd) pyrene	0.188	0.020	"	0.200	0.002	93.0	70-130	1.72	20	
Naphthalene	0.207	0.002	"	0.200	ND	104	70-130	2.94	20	
Phenanthrene	0.199	0.020	"	0.200	ND	99.7	70-130	4.85	20	
Pyrene	0.203	0.020	"	0.200	ND	102	70-130	2.53	20	
Surrogate: Fluorene-d10	190		ug/kg	200		97.3	60-130			
Surrogate: Anthracene-d10	200		"	200		98.6	60-130			
Surrogate: Pyrene-d10	200		"	200		99.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

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 B4A0508 - DTPA Sorbitol Preparation										
Blank (B4A0508-BLK1)					Prepared: 01/05/2024 Analyzed: 01/08/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4A0508-DUP1)					Source: Y401072-01 Prepared: 01/05/2024 Analyzed: 01/08/2024					
Boron	0.537	0.0995	mg/L		0.615			13.5	50	
Batch B4A0604 - Saturated Paste Metals										
Blank (B4A0604-BLK1)					Prepared: 01/06/2024 Analyzed: 01/08/2024					
Calcium PPM	ND	1.00	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	1.00	mg/L							
Sodium PPM	ND	1.00	"							
Duplicate (B4A0604-DUP1)					Source: Y401078-01 Prepared: 01/06/2024 Analyzed: 01/08/2024					
Calcium PPM	26.6	10.0	mg/L		25.7			3.25	50	
SAR	ND	0.0100	SAR		1.04				200	
Magnesium PPM	6.35	10.0	mg/L		6.05			4.84	50	
Sodium PPM	23.2	10.0	"		22.6			2.75	50	

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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A0608 - Saturated Paste pH/EC										
Blank (B4A0608-BLK1)					Prepared: 01/06/2024 Analyzed: 01/08/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A0608-DUP1)					Source: Y401078-01 Prepared: 01/06/2024 Analyzed: 01/08/2024					
pH	8.16		pH Units		8.49			3.96	25	
Specific Conductance (EC)	0.305	0.00500	mmhos/cm		0.273			11.0	25	

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Total Metals by 7196A - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L727059 -										
DUP (L 92154-DUP)	Source: 92154				Prepared: Analyzed: 01/11/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 92154-MS)	Source: 92154				Prepared: Analyzed: 01/11/2024					
Chromium, Hexavalent	28.3	2.5	mg/Kg	39.6	<1.22	71	75-125			*
LCS (LCS)					Prepared: Analyzed: 01/11/2024					
Chromium, Hexavalent	6.15	0.5	mg/Kg	8		77	75-125			
LRB (LRB)					Prepared: Analyzed: 01/11/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Andrew Newberry
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Total Metals by 7196A - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L727055 -										
DUP (L 92068-DUP)		Source: 92068			Prepared: Analyzed: 01/11/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 92068-MS)		Source: 92068			Prepared: Analyzed: 01/11/2024					
Chromium, Hexavalent	35.5	2.5	mg/Kg	39.5	<1.22	90	75-125			
LCS (LCS)					Prepared: Analyzed: 01/11/2024					
Chromium, Hexavalent	6.24	0.5	mg/Kg	8		78	75-125			
LRB (LRB)					Prepared: Analyzed: 01/11/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Andrew Newberry
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Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

* QC Failure

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