

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 11, 2024

Daniel Simpson
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020

RE: Noble - Garcia USX AB35-10D

Work Order #2411270

Enclosed are the results of analyses for samples received by Summit Scientific on 11/14/24 17:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Natalie Tessier For Paul Shrewsbury
President



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01R-W@4'	2411270-01	Soil	11/14/24 13:18	11/14/24 17:40
FL01-02@4'	2411270-02	Soil	11/14/24 13:33	11/14/24 17:40
FL01-06@4'	2411270-03	Soil	11/14/24 14:46	11/14/24 17:40

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4653 Table Mountain Drive
 Golden, CO 80403
 303-277-9310

Lab ID	Page 1 of 1
2411270	

Send Data To:		Send Invoice To:
Client: Tasman, Inc.	Project Manager: Daniel Simpson	Company: Noble Energy, Inc.
Address: 6855 W. 119th Ave.	E-Mail: Tas-chevron-5@tasman-geo.com	Project Name/Location: Garcia USX AB35-10P
City/State/Zip: Broomfield / CO / 80020		AFE#: VWPWE-A2773-ABN
Phone: 303-487-1228	Project Name: Garcia USX AB35-10P	PO/Billing Codes:
Sampler Name: McKenzie Reynolds	Project Number:	Contact: Mike Montoya

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested							Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS		HOLD
1	FLOOR-WAT'	11/14/24	1318	3			X			X			X	X	X	X	X	X		SAR, EC, pH by saturated paste
2	FL01-0264'	I	1333	I			I			I			I	I	I	I	I	I		
3	FL01-0604'	I	1446	I			I			I			I	I	I	I	I	I		
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <i>[Signature]</i>	Date/Time: 11/14/2024 1700	Received by: Tasman Lockbox	Date/Time: 11/14/2024 1700	TAT Business Days	Field DO	Notes:
Relinquished by: <i>[Signature]</i>	Date/Time: 11/14/24 1740	Received by: <i>[Signature]</i>	Date/Time: 11/14/24 1740	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 7.1	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:	Standard	X Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2411270

Client: Tasman Client Project ID: Garcia USX AB 35-10D

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

-

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>and</u>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<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"/>	
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"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

AS
Custodian Printed Name

11/14/24
Date/Time



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

FL01R-W@4'
2411270-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/14/24 13:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0937	11/18/24	11/19/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/14/24 13:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0417	104 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	96.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/14/24 13:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK0938	11/18/24	11/20/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/14/24 13:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.06	72.5 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2411270-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **11/14/24 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0958	11/19/24	11/20/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/14/24 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0158	47.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0155	46.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/14/24 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK1025	11/20/24	11/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/14/24 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

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12/11/24 10:21

FL01R-W@4'
2411270-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	5.11	0.200	mg/kg dry	1	BHK1307	11/26/24	12/03/24	EPA 6020B
Barium	145	0.400	"	"	"	"	"	"
Cadmium	0.378	0.200	"	"	"	"	"	"
Copper	6.49	0.400	"	"	"	"	"	"
Lead	11.1	0.200	"	"	"	"	"	"
Nickel	6.42	0.400	"	"	"	"	"	"
Silver	0.0598	0.0200	"	"	"	"	"	"
Zinc	25.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/14/24 13:18

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0087	12/03/24	12/03/24	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 11/14/24 13:18

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.1	0.0500	mg/L dry	1	BHL0319	12/06/24	12/10/24	EPA 6020B	
Magnesium	35.1	0.0500	"	"	"	"	"	"	
Sodium	112	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/14/24 13:18

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.07	0.00100	units	1	BHL0469	12/11/24	12/11/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/14/24 13:18

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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12/11/24 10:21

FL01R-W@4'
2411270-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.5	%	1	BHK1303	11/26/24	11/26/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/14/24 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.990	0.0100	mmhos/cm	1	BHL0320	12/06/24	12/10/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **11/14/24 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.66		pH Units	1	BHL0321	12/06/24	12/10/24	EPA 9045D	

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Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN
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Reported:
12/11/24 10:21

FL01-02@4'
2411270-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/14/24 13:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0937	11/18/24	11/19/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/14/24 13:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0422	105 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.0 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/14/24 13:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK0938	11/18/24	11/20/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/14/24 13:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.64	61.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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12/11/24 10:21

FL01-02@4'
2411270-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/14/24 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0958	11/19/24	11/20/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/14/24 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0168	50.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0191	57.2 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/14/24 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK1025	11/20/24	11/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/14/24 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Garcia USX AB35-10D

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FL01-02@4'
2411270-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	6.76	0.200	mg/kg dry	1	BHK1307	11/26/24	12/03/24	EPA 6020B
Barium	137	0.400	"	"	"	"	"	"
Cadmium	0.330	0.200	"	"	"	"	"	"
Copper	3.82	0.400	"	"	"	"	"	"
Lead	7.04	0.200	"	"	"	"	"	"
Nickel	3.98	0.400	"	"	"	"	"	"
Silver	0.0234	0.0200	"	"	"	"	"	"
Zinc	19.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/14/24 13:33

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0087	12/03/24	12/03/24	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 11/14/24 13:33

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	129	0.0500	mg/L dry	1	BHL0319	12/06/24	12/10/24	EPA 6020B	
Magnesium	28.9	0.0500	"	"	"	"	"	"	
Sodium	92.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/14/24 13:33

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.92	0.00100	units	1	BHL0469	12/11/24	12/11/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/14/24 13:33

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

FL01-02@4'
2411270-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.2	%	1	BHK1303	11/26/24	11/26/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/14/24 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.12	0.0100	mmhos/cm	1	BHL0320	12/06/24	12/10/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **11/14/24 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BHL0321	12/06/24	12/10/24	EPA 9045D	

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Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

FL01-06@4'
2411270-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/14/24 14:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0937	11/18/24	11/19/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/14/24 14:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0434	108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.5 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/14/24 14:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK0938	11/18/24	11/20/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/14/24 14:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.82	62.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

FL01-06@4'
2411270-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/14/24 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0958	11/19/24	11/20/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/14/24 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0196	58.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0184	55.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/14/24 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK1025	11/20/24	11/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/14/24 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

FL01-06@4'
2411270-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	6.67	0.200	mg/kg dry	1	BHK1307	11/26/24	12/03/24	EPA 6020B
Barium	317	0.400	"	"	"	"	"	"
Cadmium	0.355	0.200	"	"	"	"	"	"
Copper	5.85	0.400	"	"	"	"	"	"
Lead	11.9	0.200	"	"	"	"	"	"
Nickel	7.92	0.400	"	"	"	"	"	"
Silver	0.0553	0.0200	"	"	"	"	"	"
Zinc	24.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/14/24 14:46

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0087	12/03/24	12/03/24	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 11/14/24 14:46

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.8	0.0500	mg/L dry	1	BHL0319	12/06/24	12/10/24	EPA 6020B	
Magnesium	19.0	0.0500	"	"	"	"	"	"	
Sodium	27.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/14/24 14:46

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.921	0.00100	units	1	BHL0469	12/11/24	12/11/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/14/24 14:46

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

FL01-06@4'
2411270-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.9	%	1	BHK1303	11/26/24	11/26/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/14/24 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.486	0.0100	mmhos/cm	1	BHL0320	12/06/24	12/10/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **11/14/24 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.34		pH Units	1	BHL0321	12/06/24	12/10/24	EPA 9045D	

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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BHK0937 - EPA 5030 Soil MS

Blank (BHK0937-BLK1)

Prepared: 11/18/24 Analyzed: 11/19/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.7	50-150			

LCS (BHK0937-BS1)

Prepared: 11/18/24 Analyzed: 11/19/24

Benzene	0.151	0.0020	mg/kg	0.150		101	70-130			
Toluene	0.150	0.0050	"	0.150		100	70-130			
Ethylbenzene	0.149	0.0050	"	0.150		99.3	70-130			
m,p-Xylene	0.294	0.010	"	0.300		97.9	70-130			
o-Xylene	0.147	0.0050	"	0.150		97.7	70-130			
1,2,4-Trimethylbenzene	0.147	0.0050	"	0.150		97.9	70-130			
1,3,5-Trimethylbenzene	0.147	0.0050	"	0.150		98.1	70-130			
Naphthalene	0.149	0.0038	"	0.150		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0424		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	50-150			

Matrix Spike (BHK0937-MS1)

Source: 2411222-01

Prepared: 11/18/24 Analyzed: 11/19/24

Benzene	0.134	0.0020	mg/kg	0.150	ND	89.0	70-130			
Toluene	0.134	0.0050	"	0.150	ND	89.1	70-130			
Ethylbenzene	0.134	0.0050	"	0.150	ND	89.2	70-130			
m,p-Xylene	0.264	0.010	"	0.300	ND	88.1	70-130			
o-Xylene	0.132	0.0050	"	0.150	ND	88.2	70-130			
1,2,4-Trimethylbenzene	0.134	0.0050	"	0.150	ND	89.5	70-130			
1,3,5-Trimethylbenzene	0.134	0.0050	"	0.150	ND	89.1	70-130			
Naphthalene	0.142	0.0038	"	0.150	ND	94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0429		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

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Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

Batch BHK0937 - EPA 5030 Soil MS

Matrix Spike Dup (BHK0937-MSD1)	Source: 2411222-01			Prepared: 11/18/24 Analyzed: 11/19/24						
Benzene	0.136	0.0020	mg/kg	0.150	ND	90.8	70-130	2.02	30	
Toluene	0.135	0.0050	"	0.150	ND	89.9	70-130	0.894	30	
Ethylbenzene	0.132	0.0050	"	0.150	ND	88.2	70-130	1.10	30	
m,p-Xylene	0.262	0.010	"	0.300	ND	87.4	70-130	0.752	30	
o-Xylene	0.131	0.0050	"	0.150	ND	87.4	70-130	0.911	30	
1,2,4-Trimethylbenzene	0.135	0.0050	"	0.150	ND	89.8	70-130	0.335	30	
1,3,5-Trimethylbenzene	0.135	0.0050	"	0.150	ND	89.9	70-130	0.872	30	
Naphthalene	0.143	0.0038	"	0.150	ND	95.1	70-130	0.506	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0429</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0402</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0395</i>		<i>"</i>	<i>0.0400</i>		<i>98.8</i>	<i>50-150</i>			

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Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BHK0938 - EPA 3550A

Blank (BHK0938-BLK1)

Prepared: 11/18/24 Analyzed: 11/20/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5		97.6	30-150				

LCS (BHK0938-BS1)

Prepared: 11/18/24 Analyzed: 11/20/24

C10-C28 (DRO)	526	50	mg/kg	500		105	70-130				
Surrogate: <i>o</i> -Terphenyl	12.3		"	12.5		98.6	30-150				

Matrix Spike (BHK0938-MS1)

Source: 2411263-21

Prepared: 11/18/24 Analyzed: 11/20/24

C10-C28 (DRO)	482	50	mg/kg	500	53.3	85.8	70-130				
Surrogate: <i>o</i> -Terphenyl	9.32		"	12.5		74.6	30-150				

Matrix Spike Dup (BHK0938-MSD1)

Source: 2411263-21

Prepared: 11/18/24 Analyzed: 11/20/24

C10-C28 (DRO)	496	50	mg/kg	500	53.3	88.6	70-130	2.85	20		
Surrogate: <i>o</i> -Terphenyl	10.4		"	12.5		83.6	30-150				

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Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BHK0958 - EPA 5030 Soil MS

Blank (BHK0958-BLK1)

Prepared & Analyzed: 11/19/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0186		"	0.0333		55.7	40-140			
Surrogate: Fluoranthene-d10	0.0255		"	0.0333		76.4	40-140			

LCS (BHK0958-BS1)

Prepared & Analyzed: 11/19/24

Acenaphthene	0.0203	0.00500	mg/kg	0.0333		60.8	40-140			
Anthracene	0.0219	0.00500	"	0.0333		65.7	40-140			
Benzo (a) anthracene	0.0246	0.00500	"	0.0333		73.8	40-140			
Benzo (a) pyrene	0.0194	0.00500	"	0.0333		58.2	40-140			
Benzo (b) fluoranthene	0.0213	0.00500	"	0.0333		63.9	40-140			
Benzo (k) fluoranthene	0.0235	0.00500	"	0.0333		70.5	40-140			
Chrysene	0.0240	0.00500	"	0.0333		71.9	40-140			
Dibenz (a,h) anthracene	0.0173	0.00500	"	0.0333		51.9	40-140			
Fluoranthene	0.0222	0.00500	"	0.0333		66.6	40-140			
Fluorene	0.0216	0.00500	"	0.0333		64.8	40-140			
Indeno (1,2,3-cd) pyrene	0.0170	0.00500	"	0.0333		50.9	40-140			
Pyrene	0.0247	0.00500	"	0.0333		74.0	40-140			
1-Methylnaphthalene	0.0202	0.00500	"	0.0333		60.5	40-140			
2-Methylnaphthalene	0.0204	0.00500	"	0.0333		61.1	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0203		"	0.0333		60.9	40-140			
Surrogate: Fluoranthene-d10	0.0234		"	0.0333		70.3	40-140			

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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BHK0958 - EPA 5030 Soil MS

Matrix Spike (BHK0958-MS1)	Source: 2411268-01			Prepared & Analyzed: 11/19/24							
Acenaphthene	0.0182	0.00500	mg/kg	0.0333	ND	54.8	40-140				
Anthracene	0.0183	0.00500	"	0.0333	ND	54.8	40-140				
Benzo (a) anthracene	0.0221	0.00500	"	0.0333	ND	66.2	40-140				
Benzo (a) pyrene	0.0139	0.00500	"	0.0333	ND	41.8	40-140				
Benzo (b) fluoranthene	0.0138	0.00500	"	0.0333	ND	41.4	40-140				
Benzo (k) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.4	40-140				
Chrysene	0.0175	0.00500	"	0.0333	ND	52.6	40-140				
Dibenz (a,h) anthracene	0.0155	0.00500	"	0.0333	ND	46.5	40-140				
Fluoranthene	0.0180	0.00500	"	0.0333	ND	54.0	40-140				
Fluorene	0.0225	0.00500	"	0.0333	ND	67.5	40-140				
Indeno (1,2,3-cd) pyrene	0.0155	0.00500	"	0.0333	ND	46.5	40-140				
Pyrene	0.0214	0.00500	"	0.0333	ND	64.1	40-140				
1-Methylnaphthalene	0.0273	0.00500	"	0.0333	ND	82.0	40-140				
2-Methylnaphthalene	0.0447	0.00500	"	0.0333	0.0117	99.1	40-140				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0160</i>		<i>"</i>	<i>0.0333</i>		<i>47.9</i>	<i>40-140</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0193</i>		<i>"</i>	<i>0.0333</i>		<i>57.8</i>	<i>40-140</i>				

Matrix Spike Dup (BHK0958-MSD1)	Source: 2411268-01			Prepared & Analyzed: 11/19/24							
Acenaphthene	0.0175	0.00500	mg/kg	0.0333	ND	52.4	40-140	4.43	30		
Anthracene	0.0179	0.00500	"	0.0333	ND	53.8	40-140	1.92	30		
Benzo (a) anthracene	0.0213	0.00500	"	0.0333	ND	64.0	40-140	3.29	30		
Benzo (a) pyrene	0.0137	0.00500	"	0.0333	ND	41.2	40-140	1.49	30		
Benzo (b) fluoranthene	0.0135	0.00500	"	0.0333	ND	40.6	40-140	1.99	30		
Benzo (k) fluoranthene	0.0154	0.00500	"	0.0333	ND	46.2	40-140	4.51	30		
Chrysene	0.0168	0.00500	"	0.0333	ND	50.5	40-140	4.08	30		
Dibenz (a,h) anthracene	0.0166	0.00500	"	0.0333	ND	49.9	40-140	7.05	30		
Fluoranthene	0.0180	0.00500	"	0.0333	ND	54.0	40-140	0.0759	30		
Fluorene	0.0210	0.00500	"	0.0333	ND	63.0	40-140	6.89	30		
Indeno (1,2,3-cd) pyrene	0.0145	0.00500	"	0.0333	ND	43.4	40-140	6.95	30		
Pyrene	0.0204	0.00500	"	0.0333	ND	61.3	40-140	4.41	30		
1-Methylnaphthalene	0.0262	0.00500	"	0.0333	ND	78.5	40-140	4.33	30		
2-Methylnaphthalene	0.0426	0.00500	"	0.0333	0.0117	92.9	40-140	4.72	30		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0156</i>		<i>"</i>	<i>0.0333</i>		<i>46.7</i>	<i>40-140</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0192</i>		<i>"</i>	<i>0.0333</i>		<i>57.5</i>	<i>40-140</i>				

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

Batch BHK1025 - EPA 3050B

Blank (BHK1025-BLK1)

Prepared: 11/20/24 Analyzed: 11/26/24

Boron ND 2.00 mg/L

LCS (BHK1025-BS1)

Prepared: 11/20/24 Analyzed: 11/26/24

Boron 4.76 2.00 mg/L 5.00 95.2 80-120

Duplicate (BHK1025-DUP1)

Source: 2411245-01

Prepared: 11/20/24 Analyzed: 11/26/24

Boron 0.138 2.00 mg/L 0.175 24.0 20 QR-01

Matrix Spike (BHK1025-MS1)

Source: 2411245-01

Prepared: 11/20/24 Analyzed: 11/26/24

Boron 4.93 2.00 mg/L 5.00 0.175 95.0 75-125

Matrix Spike Dup (BHK1025-MSD1)

Source: 2411245-01

Prepared: 11/20/24 Analyzed: 11/26/24

Boron 4.93 2.00 mg/L 5.00 0.175 95.0 75-125 0.00812 25

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Tasman Geosciences
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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

Total Metals by EPA 6020B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BHK1307 - EPA 3050B

Blank (BHK1307-BLK1)

Prepared: 11/26/24 Analyzed: 12/03/24

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

LCS (BHK1307-BS1)

Prepared: 11/26/24 Analyzed: 12/03/24

Arsenic	42.6	0.200	mg/kg wet	38.5		111	80-120			
Barium	43.4	0.400	"	38.5		113	80-120			
Cadmium	2.25	0.200	"	1.92		117	80-120			
Copper	44.6	0.400	"	38.5		116	80-120			
Lead	21.5	0.200	"	19.2		112	80-120			
Nickel	44.3	0.400	"	38.5		115	80-120			
Silver	1.57	0.0200	"	1.92		81.7	80-120			
Zinc	45.7	0.400	"	38.5		119	80-120			
Selenium	3.94	0.260	"	3.85		103	80-120			

Duplicate (BHK1307-DUP1)

Source: 2411270-01

Prepared: 11/26/24 Analyzed: 12/03/24

Arsenic	5.90	0.200	mg/kg dry		5.11			14.3	20	
Barium	137	0.400	"		145			5.26	20	
Cadmium	0.390	0.200	"		0.378			3.10	20	
Copper	6.39	0.400	"		6.49			1.54	20	
Lead	12.5	0.200	"		11.1			12.5	20	
Nickel	6.78	0.400	"		6.42			5.40	20	
Silver	0.0637	0.0200	"		0.0598			6.28	20	
Zinc	26.6	0.400	"		25.8			2.77	20	
Selenium	ND	0.260	"		ND				20	

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Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

Total Metals by EPA 6020B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BHK1307 - EPA 3050B

Matrix Spike (BHK1307-MS1)

Source: 2411270-01

Prepared: 11/26/24 Analyzed: 12/03/24

Arsenic	56.4	0.200	mg/kg dry	48.7	5.11	105	75-125				
Barium	181	0.400	"	48.7	145	74.0	75-125				QM-05
Cadmium	3.32	0.200	"	2.44	0.378	121	75-125				
Copper	35.4	0.400	"	48.7	6.49	59.3	75-125				QM-05
Lead	39.4	0.200	"	24.4	11.1	116	75-125				
Nickel	36.0	0.400	"	48.7	6.42	60.8	75-125				QM-05
Silver	0.575	0.0200	"	2.44	0.0598	21.1	75-125				QM-05
Zinc	52.8	0.400	"	48.7	25.8	55.2	75-125				QM-05
Selenium	3.60	0.260	"	4.87	ND	73.9	75-125				QM-05

Matrix Spike Dup (BHK1307-MSD1)

Source: 2411270-01

Prepared: 11/26/24 Analyzed: 12/03/24

Arsenic	51.4	0.200	mg/kg dry	45.0	5.11	103	75-125	9.35	25		
Barium	188	0.400	"	45.0	145	96.3	75-125	3.93	25		
Cadmium	2.91	0.200	"	2.25	0.378	112	75-125	13.4	25		
Copper	32.0	0.400	"	45.0	6.49	56.8	75-125	9.93	25		QM-05
Lead	35.4	0.200	"	22.5	11.1	108	75-125	10.7	25		
Nickel	30.8	0.400	"	45.0	6.42	54.1	75-125	15.8	25		QM-05
Silver	0.537	0.0200	"	2.25	0.0598	21.2	75-125	6.82	25		QM-05
Zinc	49.7	0.400	"	45.0	25.8	53.1	75-125	5.91	25		QM-05
Selenium	3.26	0.260	"	4.50	ND	72.5	75-125	10.0	25		QM-05

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Project: Noble - Garcia USX AB35-10D
Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BHL0087 - 3060A Mod

Blank (BHL0087-BLK1)

Prepared & Analyzed: 12/03/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHL0087-BS1)

Prepared & Analyzed: 12/03/24

Chromium, Hexavalent 25.9 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BHL0087-DUP1)

Source: 2411268-01

Prepared & Analyzed: 12/03/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHL0087-MS1)

Source: 2411268-01

Prepared & Analyzed: 12/03/24

Chromium, Hexavalent 29.9 0.30 mg/kg dry 28.6 ND 105 75-125

Matrix Spike Dup (BHL0087-MSD1)

Source: 2411268-01

Prepared & Analyzed: 12/03/24

Chromium, Hexavalent 29.2 0.30 mg/kg dry 28.6 ND 102 75-125 2.32 20

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Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BHL0319 - General Preparation

Blank (BHL0319-BLK1)

Prepared: 12/06/24 Analyzed: 12/10/24

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BHL0319-BS1)

Prepared: 12/06/24 Analyzed: 12/10/24

Calcium	4.51	0.0500	mg/L wet	5.00	90.2	70-130
Magnesium	5.03	0.0500	"	5.00	101	70-130
Sodium	5.16	0.0500	"	5.00	103	70-130

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Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN
 Project Manager: Daniel Simpson

Reported:
 12/11/24 10:21

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike	Source	%REC			RPD	Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BHK1303 - General Preparation

Duplicate (BHK1303-DUP1)

Source: 2411270-01

Prepared & Analyzed: 11/26/24

% Solids	86.5		%		85.5			1.10	20	
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Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BHL0320 - General Preparation

Blank (BHL0320-BLK1)

Prepared: 12/06/24 Analyzed: 12/10/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHL0320-BS1)

Prepared: 12/06/24 Analyzed: 12/10/24

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BHL0320-DUP1)

Source: 2411260-01

Prepared: 12/06/24 Analyzed: 12/10/24

Specific Conductance (EC) 0.404 0.0100 mmhos/cm 0.406 0.346 20

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Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BHL0321 - General Preparation

LCS (BHL0321-BS1)

Prepared: 12/06/24 Analyzed: 12/10/24

pH	9.18	pH Units	9.18	100	95-105
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Duplicate (BHL0321-DUP1)

Source: 2411260-01

Prepared: 12/06/24 Analyzed: 12/10/24

pH	8.70	pH Units	8.76	0.687	20
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Project: Noble - Garcia USX AB35-10D

Project Number: UWRWE-A2773-ABN
Project Manager: Daniel Simpson

Reported:
12/11/24 10:21

Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference