

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 16, 2024

Daniel Simpson

Tasman Geosciences

6855 W. 119th Ave.

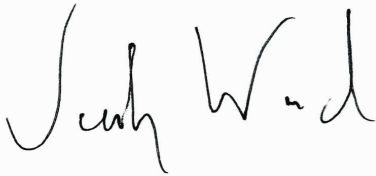
Broomfield, CO 80020

RE: Noble - Garcia USX AB35-10D

Work Order #2411287

Enclosed are the results of analyses for samples received by Summit Scientific on 11/15/24 18:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood 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:
 12/16/24 12:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-11@4'	2411287-01	Soil	11/15/24 11:56	11/15/24 18:20
FL01-14@4'	2411287-02	Soil	11/15/24 12:29	11/15/24 18:20
BKG01@0-1'	2411287-03	Soil	11/15/24 14:05	11/15/24 18:20
BKG01@2.5'	2411287-04	Soil	11/15/24 14:07	11/15/24 18:20
BKG01@4'	2411287-05	Soil	11/15/24 14:10	11/15/24 18:20
BKG01@6'	2411287-06	Soil	11/15/24 14:13	11/15/24 18:20
BKG02@0-1'	2411287-07	Soil	11/15/24 13:50	11/15/24 18:20
BKG02@2.5'	2411287-08	Soil	11/15/24 13:53	11/15/24 18:20
BKG02@4'	2411287-09	Soil	11/15/24 13:56	11/15/24 18:20
BKG02@6'	2411287-10	Soil	11/15/24 13:58	11/15/24 18:20
BKG03@0-1'	2411287-11	Soil	11/15/24 13:32	11/15/24 18:20
BKG03@2.5'	2411287-12	Soil	11/15/24 13:36	11/15/24 18:20
BKG03@4'	2411287-13	Soil	11/15/24 13:39	11/15/24 18:20
BKG03@6'	2411287-14	Soil	11/15/24 13:41	11/15/24 18:20
BKG04@2.5'	2411287-15	Soil	11/15/24 13:19	11/15/24 18:20
BKG04@4'	2411287-16	Soil	11/15/24 13:22	11/15/24 18:20
BKG04@6'	2411287-17	Soil	11/15/24 13:25	11/15/24 18:20
BKG04@8'	2411287-18	Soil	11/15/24 13:27	11/15/24 18:20
BKG05@2.5'	2411287-19	Soil	11/15/24 13:10	11/15/24 18:20
BKG05@4'	2411287-20	Soil	11/15/24 13:12	11/15/24 18:20
BKG05@6'	2411287-21	Soil	11/15/24 13:15	11/15/24 18:20
BKG05@8'	2411287-22	Soil	11/15/24 13:18	11/15/24 18:20

Summit Scientific

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

Lab ID
2411287.1
Page 1 of 2

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 VSK AB35-100	
City/State/Zip: Broomfield / CO / 80020	rbueuf27@chevron.com, jason.davidson@chevron.com	AFE#: UWRWE-A2773-ABN	
Phone: 303-487-1228	Project Name: Garcia VSK AB35-100	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	FL01-1104'	11/15/24	1156	2			X			X			X	X	X	X	X	X		SAR, EC, pH by saturated paste
2	FL01-1404'		1229												+	+	+			
3	BK0100-1'		1405																	
4	BK0102.5'		1407																	
5	BK0104'		1410																	
6	BK0106'		1413																	
7	BK0101-1'		1350																	
8	BK0202.5'		1353																	
9	BK0204'		1356																	
10	BK0206'		1358																	
11	BK0300-1'		1332																	
12	BK0302.5'		1336																	
13	BK0304'		1339																	
14	BK0306'		1341																	
15	BK0402.5'		1319																	

Relinquished by: <i>Melvin Stoff</i>	Date/Time: 11/15/2024 1630	Received by: Tasman Lockbox	Date/Time: 11/15/2024 1630	TAT Business Days	Field DO	Notes:
Relinquished by: Tasman Lockbox	Date/Time: 11/15/24 1815	Received by: <i>[Signature]</i>	Date/Time: 11/15/24 1820	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: 3.8	Corrected Temperature	IR gun #: 2	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	



4653 Table Mountain Drive
Golden, CO 80403
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Lab ID
2411287.2
Page **2** of **2**

		Send Data To:	Send Invoice To:
Client: Tasman , Inc.		Project Manager: Daniel Simpson	Company: <i>Noble Energy, Inc.</i>
Address: 6855 W. 119th Ave.		E-Mail: Tas-chevron-5@tasman-geo.com	Project Name/Location: <i>ARCIA USX AB35-10D</i>
City/State/Zip: Broomfield / CO/ 80020		<i>kbueuf27@chevron.com ; jason.davidson@chevron.com</i>	AFE#: <i>USRW5-A2773-ABN</i>
Phone: 303-487-1228		Project Name: <i>ARCIA USX AB35-10D</i>	PO/Billing Codes:
Sampler Name: <i>McKenzie Reynolds</i>		Project Number:	Contact: <i>Mike Montoya</i>

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	<i>BK60404'</i>	<i>11/15/24</i>	<i>1322</i>	<i>2</i>			<i>X</i>			<i>X</i>			<i>X</i>	<i>✓</i>			<i>X</i>	<i>X</i>			SAR, EC, pH by saturated paste		
2	<i>BK60406'</i>		<i>1325</i>																				
3	<i>BK60408'</i>		<i>1327</i>																				
4	<i>BK60502.5'</i>		<i>1310</i>																				
5	<i>BK60504'</i>		<i>1312</i>																				
6	<i>BK60506'</i>		<i>1315</i>	<i>*MP</i>			<i>*MP</i>			<i>*MP</i>													
7	<i>BK60508'</i>		<i>1318</i>																				
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							

Relinquished by: <i>McKenzie Reynolds</i>	Date/Time: <i>11/15/2024 1630</i>	Received by: Tasman Lockbox	Date/Time: <i>11/15/2024 1630</i>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: Tasman Lockbox	Date/Time: <i>11/15/24 1815</i>	Received by: <i>[Signature]</i>	Date/Time: <i>11/25/24 1820</i>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	<i>X</i> Field Turb.	
Temperature Upon Receipt: <i>3.8</i>	Corrected Temperature	IR gun #: <i>2</i>	HNO3 lot #:			

S₂

2/2

S2 Work Order# 2411287

Sample Receipt Checklist

Client: Noble/Tasman Client Project ID: Garcia USX AB35-10D

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"/>	on ice
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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.

Control Form #: SRC-001

AS
Custodian Printed Name

11/15/24
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:
12/16/24 12:43

FL01-11@4'
2411287-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/24 11:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHK0987	11/19/24	11/20/24	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: **11/15/24 11:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0424	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	96.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/24 11:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0988	11/19/24	11/20/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/24 11:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	11.4	91.4 %	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:
12/16/24 12:43

FL01-11@4'
2411287-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/15/24 11:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1016	11/20/24	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: **11/15/24 11:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0158	47.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0155	46.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 11:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 11:56**

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:
12/16/24 12:43

FL01-11@4'
2411287-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	5.15	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B
Barium	73.5	0.400	"	"	"	"	"	"
Cadmium	0.254	0.200	"	"	"	"	"	"
Copper	5.52	0.400	"	"	"	"	"	"
Lead	8.02	0.200	"	"	"	"	"	"
Nickel	5.45	0.400	"	"	"	"	"	"
Silver	0.0357	0.0200	"	"	"	"	"	"
Zinc	21.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/15/24 11:56

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: 11/15/24 11:56

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	94.7	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	51.7	0.0500	"	"	"	"	"	"	
Sodium	90.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/15/24 11:56

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.85	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/15/24 11:56

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:
12/16/24 12:43

FL01-11@4'
2411287-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.3	%	1	BHK1317	11/26/24	11/26/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 11:56**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.26	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 11:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

FL01-14@4'
2411287-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/24 12:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0987	11/19/24	11/20/24	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: **11/15/24 12:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0410	102 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.7 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0381	95.3 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/24 12:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK0988	11/19/24	11/20/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/15/24 12:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.1	88.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

FL01-14@4'
2411287-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/15/24 12:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1016	11/20/24	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: **11/15/24 12:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0135	40.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0138	41.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 12:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 12:29**

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:
12/16/24 12:43

FL01-14@4'
2411287-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.41	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B
Barium	81.2	0.400	"	"	"	"	"	"
Cadmium	0.208	0.200	"	"	"	"	"	"
Copper	4.11	0.400	"	"	"	"	"	"
Lead	6.03	0.200	"	"	"	"	"	"
Nickel	5.06	0.400	"	"	"	"	"	"
Silver	0.0302	0.0200	"	"	"	"	"	"
Zinc	21.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/15/24 12:29

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: 11/15/24 12:29

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	480	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	199	0.0500	"	"	"	"	"	"	
Sodium	346	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/15/24 12:29

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.35	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/15/24 12:29

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:
12/16/24 12:43

FL01-14@4'
2411287-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	87.9	%	1	BHK1317	11/26/24	11/26/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 12:29**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.72	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 12:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.86		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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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:
12/16/24 12:43

BKG01@0-1'
2411287-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.87	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	80.8	0.400	"	"	"	"	"	"	
Cadmium	0.275	0.200	"	"	"	"	"	"	
Copper	5.44	0.400	"	"	"	"	"	"	
Lead	7.62	0.200	"	"	"	"	"	"	
Nickel	5.45	0.400	"	"	"	"	"	"	
Silver	0.0412	0.0200	"	"	"	"	"	"	
Zinc	21.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	78.3	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	6.38	0.0500	"	"	"	"	"	"	
Sodium	4.08	0.0500	"	"	"	"	"	"	

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6855 W. 119th Ave.
Broomfield CO, 80020

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

Reported:
12/16/24 12:43

BKG01@0-1'
2411287-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.119	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.549	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.81		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

BKG01@2.5'
2411287-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 14:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 14:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.60	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	21.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.05	0.400	"	"	"	"	"	"	
Lead	3.49	0.200	"	"	"	"	"	"	
Nickel	2.89	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 14:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 14:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	162	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	14.5	0.0500	"	"	"	"	"	"	
Sodium	9.56	0.0500	"	"	"	"	"	"	

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Broomfield CO, 80020

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

Reported:
12/16/24 12:43

BKG01@2.5'
2411287-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 14:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.193	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 14:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.0		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 14:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.977	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 14:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.68		pH Units	1	BHL0434	12/10/24	12/11/24	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:
12/16/24 12:43

BKG01@4'
2411287-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.97	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	29.5	0.400	"	"	"	"	"	"	
Cadmium	0.358	0.200	"	"	"	"	"	"	
Copper	4.88	0.400	"	"	"	"	"	"	
Lead	7.63	0.200	"	"	"	"	"	"	
Nickel	5.67	0.400	"	"	"	"	"	"	
Silver	0.0254	0.0200	"	"	"	"	"	"	
Zinc	34.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	69.2	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	134	0.0500	"	"	"	"	"	"	
Sodium	718	0.0500	"	"	"	"	"	"	

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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:
12/16/24 12:43

BKG01@4'
2411287-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.6	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.2		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.64	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.40		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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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:
12/16/24 12:43

BKG01@6'
2411287-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 14:13**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 14:13**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	9.58	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	240	0.400	"	"	"	"	"	"	
Cadmium	0.312	0.200	"	"	"	"	"	"	
Copper	6.03	0.400	"	"	"	"	"	"	
Lead	8.92	0.200	"	"	"	"	"	"	
Nickel	6.14	0.400	"	"	"	"	"	"	
Silver	0.0321	0.0200	"	"	"	"	"	"	
Zinc	34.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 14:13**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 14:13**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	167	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	220	0.0500	"	"	"	"	"	"	
Sodium	816	0.0500	"	"	"	"	"	"	

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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:
12/16/24 12:43

BKG01@6'
2411287-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 14:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.76	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 14:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.6		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 14:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.61	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 14:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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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:
12/16/24 12:43

BKG02@0-1'
2411287-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.44	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	60.4	0.400	"	"	"	"	"	"	
Cadmium	0.271	0.200	"	"	"	"	"	"	
Copper	5.50	0.400	"	"	"	"	"	"	
Lead	7.83	0.200	"	"	"	"	"	"	
Nickel	5.08	0.400	"	"	"	"	"	"	
Silver	0.0329	0.0200	"	"	"	"	"	"	
Zinc	21.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	52.8	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	20.6	0.0500	"	"	"	"	"	"	
Sodium	8.60	0.0500	"	"	"	"	"	"	

Summit Scientific

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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:
12/16/24 12:43

BKG02@0-1'
2411287-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.254	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.498	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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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:
12/16/24 12:43

BKG02@2.5'
2411287-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.33	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	77.5	0.400	"	"	"	"	"	"	
Cadmium	0.271	0.200	"	"	"	"	"	"	
Copper	5.86	0.400	"	"	"	"	"	"	
Lead	8.65	0.200	"	"	"	"	"	"	
Nickel	5.61	0.400	"	"	"	"	"	"	
Silver	0.0573	0.0200	"	"	"	"	"	"	
Zinc	24.8	0.400	"	"	"	"	"	"	
Selenium	0.277	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	212	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	190	0.0500	"	"	"	"	"	"	
Sodium	260	0.0500	"	"	"	"	"	"	

Calculated Analysis

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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:
12/16/24 12:43

BKG02@2.5'
2411287-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.12	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.6		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.26	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.96		pH Units	1	BHL0434	12/10/24	12/11/24	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:
12/16/24 12:43

BKG02@4'
2411287-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.64	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	77.0	0.400	"	"	"	"	"	"	
Cadmium	0.241	0.200	"	"	"	"	"	"	
Copper	5.15	0.400	"	"	"	"	"	"	
Lead	7.73	0.200	"	"	"	"	"	"	
Nickel	4.99	0.400	"	"	"	"	"	"	
Silver	0.0506	0.0200	"	"	"	"	"	"	
Zinc	22.4	0.400	"	"	"	"	"	"	
Selenium	0.296	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	148	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	132	0.0500	"	"	"	"	"	"	
Sodium	289	0.0500	"	"	"	"	"	"	

Calculated Analysis

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6855 W. 119th Ave.
Broomfield CO, 80020

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

Reported:
12/16/24 12:43

BKG02@4'
2411287-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.16	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.5		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.54	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BHL0434	12/10/24	12/11/24	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:
12/16/24 12:43

BKG02@6'
2411287-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.76	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	104	0.400	"	"	"	"	"	"	
Cadmium	0.269	0.200	"	"	"	"	"	"	
Copper	4.99	0.400	"	"	"	"	"	"	
Lead	7.02	0.200	"	"	"	"	"	"	
Nickel	4.75	0.400	"	"	"	"	"	"	
Silver	0.0348	0.0200	"	"	"	"	"	"	
Zinc	20.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	100	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	112	0.0500	"	"	"	"	"	"	
Sodium	324	0.0500	"	"	"	"	"	"	

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Broomfield CO, 80020

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

Reported:
12/16/24 12:43

BKG02@6'
2411287-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.29	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.17	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.37		pH Units	1	BHL0434	12/10/24	12/11/24	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:
12/16/24 12:43

BKG03@0-1'
2411287-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.72	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	74.5	0.400	"	"	"	"	"	"	
Cadmium	0.327	0.200	"	"	"	"	"	"	
Copper	6.15	0.400	"	"	"	"	"	"	
Lead	9.41	0.200	"	"	"	"	"	"	
Nickel	6.09	0.400	"	"	"	"	"	"	
Silver	0.0489	0.0200	"	"	"	"	"	"	
Zinc	25.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	24.0	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	6.06	0.0500	"	"	"	"	"	"	
Sodium	3.04	0.0500	"	"	"	"	"	"	

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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:
12/16/24 12:43

BKG03@0-1'
2411287-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.144	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.1		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.260	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.90		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

BKG03@2.5'
2411287-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.95	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	58.9	0.400	"	"	"	"	"	"	
Cadmium	0.300	0.200	"	"	"	"	"	"	
Copper	4.73	0.400	"	"	"	"	"	"	
Lead	9.70	0.200	"	"	"	"	"	"	
Nickel	5.39	0.400	"	"	"	"	"	"	
Silver	0.0587	0.0200	"	"	"	"	"	"	
Zinc	23.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	16.4	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	7.82	0.0500	"	"	"	"	"	"	
Sodium	25.8	0.0500	"	"	"	"	"	"	

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6855 W. 119th Ave.
Broomfield CO, 80020

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

Reported:
12/16/24 12:43

BKG03@2.5'
2411287-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.31	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.376	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.20		pH Units	1	BHL0434	12/10/24	12/11/24	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:
12/16/24 12:43

BKG03@4'
2411287-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1261	11/25/24	11/27/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.85	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	33.2	0.400	"	"	"	"	"	"	
Cadmium	0.297	0.200	"	"	"	"	"	"	
Copper	6.65	0.400	"	"	"	"	"	"	
Lead	13.4	0.200	"	"	"	"	"	"	
Nickel	6.00	0.400	"	"	"	"	"	"	
Silver	0.0350	0.0200	"	"	"	"	"	"	
Zinc	27.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	89.0	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	97.8	0.0500	"	"	"	"	"	"	
Sodium	464	0.0500	"	"	"	"	"	"	

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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

BKG03@4'
2411287-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.08	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.75	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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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:
12/16/24 12:43

BKG03@6'
2411287-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:41**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:41**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.19	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	38.0	0.400	"	"	"	"	"	"	
Cadmium	0.287	0.200	"	"	"	"	"	"	
Copper	5.01	0.400	"	"	"	"	"	"	
Lead	7.75	0.200	"	"	"	"	"	"	
Nickel	4.58	0.400	"	"	"	"	"	"	
Silver	0.0442	0.0200	"	"	"	"	"	"	
Zinc	23.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:41**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:41**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	78.7	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	47.8	0.0500	"	"	"	"	"	"	
Sodium	229	0.0500	"	"	"	"	"	"	

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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:
12/16/24 12:43

BKG03@6'
2411287-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.02	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.4		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.58	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

BKG04@2.5'
2411287-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.52	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	66.5	0.400	"	"	"	"	"	"	
Cadmium	0.243	0.200	"	"	"	"	"	"	
Copper	3.89	0.400	"	"	"	"	"	"	
Lead	6.01	0.200	"	"	"	"	"	"	
Nickel	4.50	0.400	"	"	"	"	"	"	
Silver	0.0341	0.0200	"	"	"	"	"	"	
Zinc	16.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	85.5	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	139	0.0500	"	"	"	"	"	"	
Sodium	627	0.0500	"	"	"	"	"	"	

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Broomfield CO, 80020

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

Reported:
12/16/24 12:43

BKG04@2.5'
2411287-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.73	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.6		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.44	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.56		pH Units	1	BHL0434	12/10/24	12/11/24	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:
12/16/24 12:43

BKG04@4'
2411287-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.98	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	288	0.400	"	"	"	"	"	"	
Cadmium	0.376	0.200	"	"	"	"	"	"	
Copper	6.23	0.400	"	"	"	"	"	"	
Lead	8.95	0.200	"	"	"	"	"	"	
Nickel	6.66	0.400	"	"	"	"	"	"	
Silver	0.0519	0.0200	"	"	"	"	"	"	
Zinc	22.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	44.0	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	40.2	0.0500	"	"	"	"	"	"	
Sodium	187	0.0500	"	"	"	"	"	"	

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Broomfield CO, 80020

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

Reported:
12/16/24 12:43

BKG04@4'
2411287-16 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.90	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.7		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.35	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BHL0434	12/10/24	12/11/24	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:
12/16/24 12:43

BKG04@6'
2411287-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.64	0.200	mg/kg dry	1	BHL0094	12/03/24	12/06/24	EPA 6020B	
Barium	78.8	0.400	"	"	"	"	"	"	
Cadmium	0.228	0.200	"	"	"	"	"	"	
Copper	5.15	0.400	"	"	"	"	"	"	
Lead	6.82	0.200	"	"	"	"	"	"	
Nickel	5.87	0.400	"	"	"	"	"	"	
Silver	0.0346	0.0200	"	"	"	"	"	"	
Zinc	20.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	171	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	155	0.0500	"	"	"	"	"	"	
Sodium	451	0.0500	"	"	"	"	"	"	

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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:
12/16/24 12:43

BKG04@6'
2411287-17 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.01	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.5		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.58	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26		pH Units	1	BHL0434	12/10/24	12/11/24	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:
12/16/24 12:43

BKG04@8'
2411287-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.14	0.200		mg/kg dry	1	BHL0257	12/05/24	12/11/24	EPA 6020B	
Barium	115	0.400		"	"	"	"	"	"	
Cadmium	0.263	0.200		"	"	"	"	"	"	
Copper	4.98	0.400		"	"	"	"	"	"	
Lead	7.75	0.200		"	"	"	"	"	"	
Nickel	5.93	0.400		"	"	"	"	"	"	
Silver	0.0430	0.0200		"	"	"	"	"	"	
Zinc	19.9	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	76.7	0.0500		mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	72.9	0.0500		"	"	"	"	"	"	
Sodium	311	0.0500		"	"	"	"	"	"	

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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

BKG04@8'
2411287-18 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.10	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.8		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.25	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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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:
12/16/24 12:43

BKG05@2.5'
2411287-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.58	0.200	mg/kg dry	1	BHL0257	12/05/24	12/11/24	EPA 6020B	
Barium	101	0.400	"	"	"	"	"	"	
Cadmium	0.283	0.200	"	"	"	"	"	"	
Copper	5.24	0.400	"	"	"	"	"	"	
Lead	7.48	0.200	"	"	"	"	"	"	
Nickel	4.42	0.400	"	"	"	"	"	"	
Silver	0.0369	0.0200	"	"	"	"	"	"	
Zinc	21.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	311	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	209	0.0500	"	"	"	"	"	"	
Sodium	705	0.0500	"	"	"	"	"	"	

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6855 W. 119th Ave.
Broomfield CO, 80020

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

Reported:
12/16/24 12:43

BKG05@2.5'
2411287-19 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.58	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.6		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.57	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

BKG05@4'
2411287-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:12**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:12**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.28	0.200	mg/kg dry	1	BHL0257	12/05/24	12/11/24	EPA 6020B	
Barium	150	0.400	"	"	"	"	"	"	
Cadmium	0.316	0.200	"	"	"	"	"	"	
Copper	5.06	0.400	"	"	"	"	"	"	
Lead	9.61	0.200	"	"	"	"	"	"	
Nickel	4.52	0.400	"	"	"	"	"	"	
Silver	0.0554	0.0200	"	"	"	"	"	"	
Zinc	29.5	0.400	"	"	"	"	"	"	
Selenium	0.586	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:12**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0193	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:12**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	268	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	218	0.0500	"	"	"	"	"	"	
Sodium	1150	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

BKG05@4'
2411287-20 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.6	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.3		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.34	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.19		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

BKG05@6'
2411287-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.54	0.200	mg/kg dry	1	BHL0257	12/05/24	12/11/24	EPA 6020B	
Barium	122	0.400	"	"	"	"	"	"	
Cadmium	0.248	0.200	"	"	"	"	"	"	
Copper	3.92	0.400	"	"	"	"	"	"	
Lead	7.60	0.200	"	"	"	"	"	"	
Nickel	4.72	0.400	"	"	"	"	"	"	
Silver	0.0347	0.0200	"	"	"	"	"	"	
Zinc	20.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	64.3	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	56.5	0.0500	"	"	"	"	"	"	
Sodium	543	0.0500	"	"	"	"	"	"	

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

Reported:
12/16/24 12:43

BKG05@6'
2411287-21 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.9	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.8		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.90	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.34		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

BKG05@8'
2411287-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 13:18**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 13:18**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.92	0.200	mg/kg dry	1	BHL0257	12/05/24	12/11/24	EPA 6020B	
Barium	106	0.400	"	"	"	"	"	"	
Cadmium	0.263	0.200	"	"	"	"	"	"	
Copper	5.37	0.400	"	"	"	"	"	"	
Lead	7.87	0.200	"	"	"	"	"	"	
Nickel	6.01	0.400	"	"	"	"	"	"	
Silver	0.0550	0.0200	"	"	"	"	"	"	
Zinc	21.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 13:18**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 13:18**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	193	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	88.9	0.0500	"	"	"	"	"	"	
Sodium	241	0.0500	"	"	"	"	"	"	

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Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

BKG05@8'
2411287-22 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.60	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.5		%	1	BHK1317	11/26/24	11/26/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.45	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **11/15/24 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.95		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

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 BHK0987 - EPA 5030 Soil MS

Blank (BHK0987-BLK1)

Prepared & 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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0405</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>99.9</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0390</i>		<i>"</i>	<i>0.0400</i>		<i>97.4</i>	<i>50-150</i>			

LCS (BHK0987-BS1)

Prepared & Analyzed: 11/19/24

Benzene	0.120	0.0020	mg/kg	0.100		120	70-130			
Toluene	0.119	0.0050	"	0.100		119	70-130			
Ethylbenzene	0.127	0.0050	"	0.100		127	70-130			
m,p-Xylene	0.250	0.010	"	0.200		125	70-130			
o-Xylene	0.119	0.0050	"	0.100		119	70-130			
1,2,4-Trimethylbenzene	0.122	0.0050	"	0.100		122	70-130			
1,3,5-Trimethylbenzene	0.123	0.0050	"	0.100		123	70-130			
Naphthalene	0.105	0.0038	"	0.100		105	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.3</i>	<i>50-150</i>			

Matrix Spike (BHK0987-MS1)

Source: 2411286-01

Prepared & Analyzed: 11/19/24

Benzene	0.110	0.0020	mg/kg	0.100	ND	110	70-130			
Toluene	0.109	0.0050	"	0.100	ND	109	70-130			
Ethylbenzene	0.114	0.0050	"	0.100	ND	114	70-130			
m,p-Xylene	0.224	0.010	"	0.200	ND	112	70-130			
o-Xylene	0.107	0.0050	"	0.100	ND	107	70-130			
1,2,4-Trimethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130			
1,3,5-Trimethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130			
Naphthalene	0.0975	0.0038	"	0.100	ND	97.5	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0427</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0407</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>96.9</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:
12/16/24 12:43

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 BHK0987 - EPA 5030 Soil MS

Matrix Spike Dup (BHK0987-MSD1)	Source: 2411286-01			Prepared & Analyzed: 11/19/24						
Benzene	0.107	0.0020	mg/kg	0.100	ND	107	70-130	2.72	30	
Toluene	0.106	0.0050	"	0.100	ND	106	70-130	3.16	30	
Ethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130	3.22	30	
m,p-Xylene	0.218	0.010	"	0.200	ND	109	70-130	2.86	30	
o-Xylene	0.105	0.0050	"	0.100	ND	105	70-130	2.49	30	
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130	4.06	30	
1,3,5-Trimethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	3.90	30	
Naphthalene	0.0944	0.0038	"	0.100	ND	94.4	70-130	3.25	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0422</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.0</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:
12/16/24 12:43

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 BHK0988 - EPA 3550A

Blank (BHK0988-BLK1)

Prepared & Analyzed: 11/19/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	10.3		"	12.5		82.4		30-150			

LCS (BHK0988-BS1)

Prepared & Analyzed: 11/19/24

C10-C28 (DRO)	392	50	mg/kg	500		78.4		70-130			
Surrogate: <i>o</i> -Terphenyl	13.0		"	12.5		104		30-150			

Matrix Spike (BHK0988-MS1)

Source: 2411286-01

Prepared & Analyzed: 11/19/24

C10-C28 (DRO)	410	50	mg/kg	500	17.4	78.5		70-130			
Surrogate: <i>o</i> -Terphenyl	14.2		"	12.5		114		30-150			

Matrix Spike Dup (BHK0988-MSD1)

Source: 2411286-01

Prepared & Analyzed: 11/19/24

C10-C28 (DRO)	397	50	mg/kg	500	17.4	75.9		70-130	3.26	20	
Surrogate: <i>o</i> -Terphenyl	13.0		"	12.5		104		30-150			

Summit Scientific

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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:
12/16/24 12:43

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 BHK1016 - EPA 5030 Soil MS

Blank (BHK1016-BLK1)

Prepared & Analyzed: 11/20/24

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0174</i>		"	<i>0.0333</i>		<i>52.2</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0209</i>		"	<i>0.0333</i>		<i>62.7</i>	<i>40-140</i>			

LCS (BHK1016-BS1)

Prepared & Analyzed: 11/20/24

Acenaphthene	0.0222	0.00500	mg/kg	0.0333		66.7	40-140			
Anthracene	0.0222	0.00500	"	0.0333		66.6	40-140			
Benzo (a) anthracene	0.0233	0.00500	"	0.0333		69.8	40-140			
Benzo (a) pyrene	0.0210	0.00500	"	0.0333		63.0	40-140			
Benzo (b) fluoranthene	0.0208	0.00500	"	0.0333		62.5	40-140			
Benzo (k) fluoranthene	0.0218	0.00500	"	0.0333		65.3	40-140			
Chrysene	0.0234	0.00500	"	0.0333		70.1	40-140			
Dibenz (a,h) anthracene	0.0219	0.00500	"	0.0333		65.7	40-140			
Fluoranthene	0.0230	0.00500	"	0.0333		69.1	40-140			
Fluorene	0.0228	0.00500	"	0.0333		68.4	40-140			
Indeno (1,2,3-cd) pyrene	0.0221	0.00500	"	0.0333		66.3	40-140			
Pyrene	0.0247	0.00500	"	0.0333		74.2	40-140			
1-Methylnaphthalene	0.0222	0.00500	"	0.0333		66.7	40-140			
2-Methylnaphthalene	0.0238	0.00500	"	0.0333		71.3	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0242</i>		"	<i>0.0333</i>		<i>72.5</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0242</i>		"	<i>0.0333</i>		<i>72.6</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:
12/16/24 12:43

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 BHK1016 - EPA 5030 Soil MS

Matrix Spike (BHK1016-MS1)	Source: 2411287-01			Prepared & Analyzed: 11/20/24						
Acenaphthene	0.0197	0.00500	mg/kg	0.0333	ND	59.0	40-140			
Anthracene	0.0191	0.00500	"	0.0333	ND	57.4	40-140			
Benzo (a) anthracene	0.0199	0.00500	"	0.0333	ND	59.8	40-140			
Benzo (a) pyrene	0.0176	0.00500	"	0.0333	ND	52.9	40-140			
Benzo (b) fluoranthene	0.0174	0.00500	"	0.0333	ND	52.1	40-140			
Benzo (k) fluoranthene	0.0173	0.00500	"	0.0333	ND	51.8	40-140			
Chrysene	0.0200	0.00500	"	0.0333	ND	59.9	40-140			
Dibenz (a,h) anthracene	0.0190	0.00500	"	0.0333	ND	57.1	40-140			
Fluoranthene	0.0212	0.00500	"	0.0333	ND	63.6	40-140			
Fluorene	0.0199	0.00500	"	0.0333	ND	59.7	40-140			
Indeno (1,2,3-cd) pyrene	0.0189	0.00500	"	0.0333	ND	56.8	40-140			
Pyrene	0.0219	0.00500	"	0.0333	ND	65.8	40-140			
1-Methylnaphthalene	0.0190	0.00500	"	0.0333	ND	57.1	40-140			
2-Methylnaphthalene	0.0211	0.00500	"	0.0333	ND	63.4	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0209</i>		<i>"</i>	<i>0.0333</i>		<i>62.8</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0197</i>		<i>"</i>	<i>0.0333</i>		<i>59.0</i>	<i>40-140</i>			

Matrix Spike Dup (BHK1016-MSD1)	Source: 2411287-01			Prepared & Analyzed: 11/20/24						
Acenaphthene	0.0201	0.00500	mg/kg	0.0333	ND	60.2	40-140	2.01	30	
Anthracene	0.0195	0.00500	"	0.0333	ND	58.4	40-140	1.88	30	
Benzo (a) anthracene	0.0211	0.00500	"	0.0333	ND	63.4	40-140	5.77	30	
Benzo (a) pyrene	0.0180	0.00500	"	0.0333	ND	53.9	40-140	1.97	30	
Benzo (b) fluoranthene	0.0180	0.00500	"	0.0333	ND	53.9	40-140	3.43	30	
Benzo (k) fluoranthene	0.0171	0.00500	"	0.0333	ND	51.3	40-140	1.03	30	
Chrysene	0.0204	0.00500	"	0.0333	ND	61.2	40-140	2.11	30	
Dibenz (a,h) anthracene	0.0191	0.00500	"	0.0333	ND	57.2	40-140	0.179	30	
Fluoranthene	0.0231	0.00500	"	0.0333	ND	69.3	40-140	8.47	30	
Fluorene	0.0198	0.00500	"	0.0333	ND	59.5	40-140	0.265	30	
Indeno (1,2,3-cd) pyrene	0.0194	0.00500	"	0.0333	ND	58.1	40-140	2.37	30	
Pyrene	0.0239	0.00500	"	0.0333	ND	71.8	40-140	8.73	30	
1-Methylnaphthalene	0.0182	0.00500	"	0.0333	ND	54.6	40-140	4.43	30	
2-Methylnaphthalene	0.0197	0.00500	"	0.0333	ND	59.2	40-140	6.85	30	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0207</i>		<i>"</i>	<i>0.0333</i>		<i>62.1</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0192</i>		<i>"</i>	<i>0.0333</i>		<i>57.7</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:
12/16/24 12:43

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	Limit		

Batch BHK1261 - EPA 3050B

Blank (BHK1261-BLK1)				Prepared: 11/25/24 Analyzed: 11/26/24							
Boron	ND	2.00	mg/L								
LCS (BHK1261-BS1)				Prepared: 11/25/24 Analyzed: 11/26/24							
Boron	4.71	2.00	mg/L	5.00		94.2	80-120				
Duplicate (BHK1261-DUP1)				Source: 2411277-22		Prepared: 11/25/24 Analyzed: 11/26/24					
Boron	0.652	2.00	mg/L		0.688				5.41	20	
Matrix Spike (BHK1261-MS1)				Source: 2411277-22		Prepared: 11/25/24 Analyzed: 11/26/24					
Boron	5.04	2.00	mg/L	5.00	0.688	87.1	75-125				
Matrix Spike Dup (BHK1261-MSD1)				Source: 2411277-22		Prepared: 11/25/24 Analyzed: 11/26/24					
Boron	5.10	2.00	mg/L	5.00	0.688	88.2	75-125		1.05	25	

Batch BHK1264 - EPA 3050B

Blank (BHK1264-BLK1)				Prepared: 11/25/24 Analyzed: 11/28/24							
Boron	ND	2.00	mg/L								
LCS (BHK1264-BS1)				Prepared: 11/25/24 Analyzed: 11/28/24							
Boron	5.08	2.00	mg/L	5.00		102	80-120				
Duplicate (BHK1264-DUP1)				Source: 2411287-14		Prepared: 11/25/24 Analyzed: 11/28/24					
Boron	0.697	2.00	mg/L		0.710				1.84	20	
Matrix Spike (BHK1264-MS1)				Source: 2411287-14		Prepared: 11/25/24 Analyzed: 11/28/24					
Boron	5.62	2.00	mg/L	5.00	0.710	98.2	75-125				

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Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
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Analyte	Result	Reporting		Spike	Source		%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BHK1264 - EPA 3050B

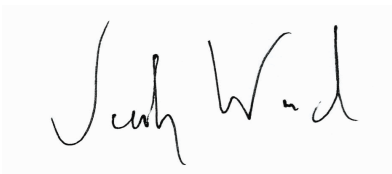
Matrix Spike Dup (BHK1264-MSD1)

Source: 2411287-14

Prepared: 11/25/24 Analyzed: 11/28/24

Boron	5.76	2.00	mg/L	5.00	0.710	101	75-125	2.46	25	
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Project Number: UWRWE-A2773-ABN
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Reported:
12/16/24 12:43

Total Metals by EPA 6020B - Quality Control
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Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

Batch BHL0094 - EPA 3050B

Blank (BHL0094-BLK1)

Prepared: 12/03/24 Analyzed: 12/06/24

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 (BHL0094-BS1)

Prepared: 12/03/24 Analyzed: 12/06/24

Arsenic	36.6	0.200	mg/kg wet	40.3	90.7	80-120
Barium	36.9	0.400	"	40.3	91.6	80-120
Cadmium	1.84	0.200	"	2.02	91.4	80-120
Copper	38.0	0.400	"	40.3	94.2	80-120
Lead	18.2	0.200	"	20.2	90.1	80-120
Nickel	37.8	0.400	"	40.3	93.7	80-120
Silver	2.11	0.0200	"	2.02	105	80-120
Zinc	38.2	0.400	"	40.3	94.7	80-120
Selenium	3.80	0.260	"	4.03	94.4	80-120

Duplicate (BHL0094-DUP1)

Source: 2411286-01

Prepared: 12/03/24 Analyzed: 12/06/24

Arsenic	3.33	0.200	mg/kg dry	3.28	1.58	20
Barium	66.6	0.400	"	72.4	8.42	20
Cadmium	0.203	0.200	"	0.206	1.35	20
Copper	4.64	0.400	"	4.57	1.50	20
Lead	7.16	0.200	"	6.75	5.94	20
Nickel	4.77	0.400	"	4.69	1.84	20
Silver	0.0406	0.0200	"	0.0396	2.30	20
Zinc	19.2	0.400	"	18.9	1.52	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:
12/16/24 12:43

Total Metals by EPA 6020B - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BHL0094 - EPA 3050B

Matrix Spike (BHL0094-MS1)

Source: 2411286-01

Prepared: 12/03/24 Analyzed: 12/06/24

Arsenic	44.8	0.200	mg/kg dry	45.7	3.28	90.8	75-125				
Barium	109	0.400	"	45.7	72.4	80.7	75-125				
Cadmium	2.33	0.200	"	2.29	0.206	92.7	75-125				
Copper	32.3	0.400	"	45.7	4.57	60.6	75-125				QM-05
Lead	27.5	0.200	"	22.9	6.75	90.7	75-125				
Nickel	32.3	0.400	"	45.7	4.69	60.4	75-125				QM-05
Silver	2.40	0.0200	"	2.29	0.0396	103	75-125				
Zinc	48.0	0.400	"	45.7	18.9	63.7	75-125				QM-05
Selenium	3.68	0.260	"	4.57	ND	80.5	75-125				

Matrix Spike Dup (BHL0094-MSD1)

Source: 2411286-01

Prepared: 12/03/24 Analyzed: 12/06/24

Arsenic	42.8	0.200	mg/kg dry	45.0	3.28	87.9	75-125	4.51	25		
Barium	108	0.400	"	45.0	72.4	78.0	75-125	1.68	25		
Cadmium	2.39	0.200	"	2.25	0.206	97.3	75-125	2.87	25		
Copper	33.1	0.400	"	45.0	4.57	63.4	75-125	2.47	25		QM-05
Lead	28.0	0.200	"	22.5	6.75	94.5	75-125	1.88	25		
Nickel	33.2	0.400	"	45.0	4.69	63.5	75-125	2.86	25		QM-05
Silver	2.47	0.0200	"	2.25	0.0396	108	75-125	2.74	25		
Zinc	48.6	0.400	"	45.0	18.9	66.1	75-125	1.21	25		QM-05
Selenium	3.60	0.260	"	4.50	ND	80.0	75-125	2.29	25		

Batch BHL0257 - EPA 3050B

Blank (BHL0257-BLK1)

Prepared: 12/05/24 Analyzed: 12/11/24

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	"								

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

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 BHL0257 - EPA 3050B

LCS (BHL0257-BS1)

Prepared: 12/05/24 Analyzed: 12/11/24

Arsenic	39.5	0.200	mg/kg wet	40.0		98.7	80-120			
Barium	38.7	0.400	"	40.0		96.8	80-120			
Cadmium	1.96	0.200	"	2.00		97.9	80-120			
Copper	42.6	0.400	"	40.0		106	80-120			
Lead	19.8	0.200	"	20.0		98.9	80-120			
Nickel	39.8	0.400	"	40.0		99.5	80-120			
Silver	1.95	0.0200	"	2.00		97.4	80-120			
Zinc	40.2	0.400	"	40.0		100	80-120			
Selenium	3.81	0.260	"	4.00		95.3	80-120			

Duplicate (BHL0257-DUP1)

Source: 2411243-13

Prepared: 12/05/24 Analyzed: 12/11/24

Arsenic	4.38	0.200	mg/kg dry		4.33			1.23	20	
Barium	121	0.400	"		125			3.71	20	
Cadmium	0.336	0.200	"		0.307			9.03	20	
Copper	6.58	0.400	"		6.45			1.99	20	
Lead	10.6	0.200	"		10.7			1.37	20	
Nickel	7.02	0.400	"		6.87			2.17	20	
Silver	0.0510	0.0200	"		0.0553			8.14	20	
Zinc	25.2	0.400	"		24.4			3.11	20	
Selenium	ND	0.260	"		ND				20	

Matrix Spike (BHL0257-MS1)

Source: 2411243-13

Prepared: 12/05/24 Analyzed: 12/11/24

Arsenic	47.3	0.200	mg/kg dry	44.6	4.33	96.3	75-125			
Barium	158	0.400	"	44.6	125	72.0	75-125			QM-05
Cadmium	2.50	0.200	"	2.23	0.307	98.5	75-125			
Copper	33.1	0.400	"	44.6	6.45	59.6	75-125			QM-05
Lead	31.6	0.200	"	22.3	10.7	93.3	75-125			
Nickel	31.6	0.400	"	44.6	6.87	55.4	75-125			QM-05
Silver	2.14	0.0200	"	2.23	0.0553	93.6	75-125			
Zinc	49.5	0.400	"	44.6	24.4	56.1	75-125			QM-05
Selenium	3.55	0.260	"	4.46	ND	79.5	75-125			

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

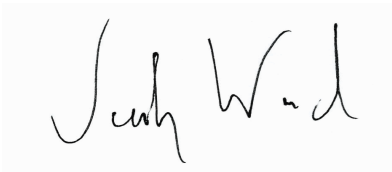
Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHL0257 - EPA 3050B

Matrix Spike Dup (BHL0257-MSD1)	Source: 2411243-13			Prepared: 12/05/24		Analyzed: 12/11/24					
Arsenic	49.1	0.200	mg/kg dry	46.1	4.33	97.2	75-125	3.84	25		
Barium	166	0.400	"	46.1	125	88.3	75-125	5.27	25		
Cadmium	2.57	0.200	"	2.30	0.307	98.5	75-125	2.77	25		
Copper	34.9	0.400	"	46.1	6.45	61.8	75-125	5.46	25		QM-05
Lead	32.1	0.200	"	23.0	10.7	92.6	75-125	1.60	25		
Nickel	33.2	0.400	"	46.1	6.87	57.3	75-125	5.15	25		QM-05
Silver	2.25	0.0200	"	2.30	0.0553	95.1	75-125	4.65	25		
Zinc	50.9	0.400	"	46.1	24.4	57.6	75-125	2.93	25		QM-05
Selenium	3.66	0.260	"	4.61	ND	79.4	75-125	3.06	25		

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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHL0193 - 3060A Mod

Blank (BHL0193-BLK1)		Prepared: 12/04/24 Analyzed: 12/06/24								
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BHL0193-BS1)		Prepared: 12/04/24 Analyzed: 12/06/24								
Chromium, Hexavalent	25.0	0.30	mg/kg wet	25.0		99.8	80-120			
Duplicate (BHL0193-DUP1)		Source: 2411287-01		Prepared: 12/04/24 Analyzed: 12/06/24						
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BHL0193-MS1)		Source: 2411287-01		Prepared: 12/04/24 Analyzed: 12/06/24						
Chromium, Hexavalent	28.3	0.30	mg/kg dry	28.0	ND	101	75-125			
Matrix Spike Dup (BHL0193-MSD1)		Source: 2411287-01		Prepared: 12/04/24 Analyzed: 12/06/24						
Chromium, Hexavalent	28.2	0.30	mg/kg dry	28.0	ND	101	75-125	0.198	20	

Batch BHL0194 - 3060A Mod

Blank (BHL0194-BLK1)		Prepared: 12/04/24 Analyzed: 12/06/24								
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BHL0194-BS1)		Prepared: 12/04/24 Analyzed: 12/06/24								
Chromium, Hexavalent	27.0	0.30	mg/kg wet	25.0		108	80-120			
Duplicate (BHL0194-DUP1)		Source: 2411287-21		Prepared: 12/04/24 Analyzed: 12/06/24						
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BHL0194-MS1)		Source: 2411287-21		Prepared: 12/04/24 Analyzed: 12/06/24						
Chromium, Hexavalent	28.4	0.30	mg/kg dry	29.5	ND	96.2	75-125			

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

Reported:
 12/16/24 12:43

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

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

Batch BHL0194 - 3060A Mod

Matrix Spike Dup (BHL0194-MSD1)

Source: 2411287-21

Prepared: 12/04/24 Analyzed: 12/06/24

Chromium, Hexavalent	31.0	0.30	mg/kg dry	29.5	ND	105	75-125	8.94	20	
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Summit Scientific

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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:
12/16/24 12:43

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

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

Batch BHL0432 - General Preparation

Blank (BHL0432-BLK1)

Prepared: 12/10/24 Analyzed: 12/11/24

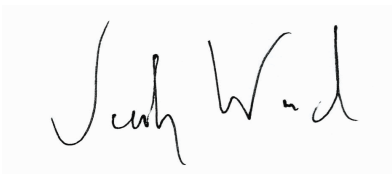
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BHL0432-BS1)

Prepared: 12/10/24 Analyzed: 12/11/24

Calcium	5.41	0.0500	mg/L wet	5.00		108	70-130			
Magnesium	4.72	0.0500	"	5.00		94.5	70-130			
Sodium	4.68	0.0500	"	5.00		93.6	70-130			

Summit Scientific



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Project: Noble - Garcia USX AB35-10D

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

Reported:
 12/16/24 12:43

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 BHK1317 - General Preparation


Duplicate (BHK1317-DUP1)

Source: 2411287-01

Prepared & Analyzed: 11/26/24

% Solids	89.2		%		89.3			0.121		20	
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Summit Scientific



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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:
12/16/24 12:43

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 BHL0435 - General Preparation

Blank (BHL0435-BLK1)

Prepared: 12/10/24 Analyzed: 12/11/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHL0435-BS1)

Prepared: 12/10/24 Analyzed: 12/11/24

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BHL0435-DUP1)

Source: 2411287-01

Prepared: 12/10/24 Analyzed: 12/11/24

Specific Conductance (EC) 1.26 0.0100 mmhos/cm 1.26 0.397 20

Summit Scientific

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Broomfield CO, 80020

Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

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 BHL0434 - General Preparation

LCS (BHL0434-BS1)

Prepared: 12/10/24 Analyzed: 12/11/24

pH	9.13	pH Units	9.18	99.5	95-105
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Duplicate (BHL0434-DUP1)

Source: 2411287-01

Prepared: 12/10/24 Analyzed: 12/11/24

pH	7.90	pH Units	7.91	0.126	20
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
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Project: Noble - Garcia USX AB35-10D

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

Reported:
12/16/24 12:43

Notes and Definitions

- 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