

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 31, 2023

Paul Henehan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Timko C 31-22

Work Order #2305483

Enclosed are the results of analyses for samples received by Summit Scientific on 05/19/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely".

Scott Sheely For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Timko C 31-22
Project Number: UWRWE-A3025-ABM
Project Manager: Paul Henchan

Reported:
05/31/23 15:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22FL01@3'	2305483-01	Soil	05/19/23 10:14	05/19/23 16:30
22FL07@5'	2305483-02	Soil	05/19/23 12:35	05/19/23 16:30

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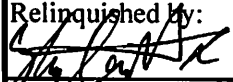
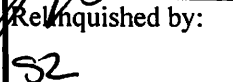

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2305413	

Client: Fremont Env		Send Data To:		Send Invoice To:	
Address:		Project Manager: Paul Henehan		Company: Noble	
City/State/Zip:		E-Mail: Paulh@fremontenv.com		Project Name/Location: Timko C31-22	
Phone:		jeff@fremontenv.com Ethenb@fremontenv.com		AFE#:	
Sampler Name: JG/SG		Project Name: Timko C 31-22		PO/Billing Codes: UWRWE-A2341-ABN	
		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	BTEX + N	TMBs (915)	GRO, PRO, DRD	PAHs (915)	EC, PH, SAR, Boron	
1	22FLO1 @ 3'	5/19/23	10:14	2			X			X			X	X	X	X	X	
2	22FLO7 @ 50'	5/19/23	12:35	2			X			X			X	X	X	X	X	
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: 	Date/Time: 5/19/23 13:50	Received by: Summit North	Date/Time: 5/19/23 13:50	TAT Business Days	Field DO	Notes: Bill to Noble
Relinquished by: 	Date/Time: 5/19/23 14:30	Received by: 	Date/Time: 5/19/23 16:30	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard <input checked="" type="checkbox"/>	Field Turb.	
Temperature Upon Receipt: 9.0	Corrected Temperature: 6	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2305483Client: Fremont Client Project ID: Timko C31-22Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☐ Other ☐Temp (°C) 9.6 Thermometer # 1

	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"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NOTE
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

 Custodian Printed Name

5/19/23
 Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Timko C 31-22
Project Number: UWRWE-A3025-ABM
Project Manager: Paul Henchan

Reported:
05/31/23 15:00

22FL01@3'
2305483-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/19/23 10:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGE0794	05/23/23	05/24/23	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: **05/19/23 10:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0422	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0409	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0415	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/19/23 10:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0797	05/23/23	05/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/19/23 10:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.2	113 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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22FL01@3'
2305483-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **05/19/23 10:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGE0786	05/23/23	05/24/23	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	0.0112	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/19/23 10:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0202	60.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0155	46.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/19/23 10:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0619	0.0100	mg/L	1	BGE0867	05/24/23	05/26/23	EPA 6020B	

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

Date Sampled: **05/19/23 10:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Timko C 31-22
Project Number: UWRWE-A3025-ABM
Project Manager: Paul Henchan

Reported:
05/31/23 15:00

22FL01@3'
2305483-01 (Soil)

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

Calcium	42.6	0.0574	mg/L dry	1	BGE0908	05/25/23	05/29/23	EPA 6020B
Magnesium	16.9	0.0574	"	"	"	"	"	"
Sodium	20.1	0.0574	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **05/19/23 10:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.659	0.00100	units	1	BGE1030	05/30/23	05/30/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/19/23 10:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.1		%	1	BGE1010	05/30/23	05/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/19/23 10:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.468	0.0100	mmhos/cm	1	BGE0966	05/26/23	05/26/23	EPA 120.1	

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

Date Sampled: **05/19/23 10:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.72		pH Units	1	BGE0965	05/26/23	05/26/23	EPA 9045D	

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Project: Noble - Timko C 31-22
Project Number: UWRWE-A3025-ABM
Project Manager: Paul Henchan

Reported:
05/31/23 15:00

22FL07@5'
2305483-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/19/23 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0794	05/23/23	05/24/23	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: **05/19/23 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/19/23 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0797	05/23/23	05/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/19/23 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	15.1	121 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Timko C 31-22
Project Number: UWRWE-A3025-ABM
Project Manager: Paul Henchan

Reported:
05/31/23 15:00

22FL07@5'
2305483-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **05/19/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGE0786	05/23/23	05/24/23	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	0.0181	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/19/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0216	64.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0144	43.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/19/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0808	0.0100	mg/L	1	BGE0867	05/24/23	05/26/23	EPA 6020B	

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

Date Sampled: **05/19/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Timko C 31-22
Project Number: UWRWE-A3025-ABM
Project Manager: Paul Henchan

Reported:
05/31/23 15:00

22FL07@5'
2305483-02 (Soil)

Summit Scientific

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

Calcium	56.8	0.0584	mg/L dry	1	BGE0908	05/25/23	05/29/23	EPA 6020B
Magnesium	10.4	0.0584	"	"	"	"	"	"
Sodium	4.67	0.0584	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **05/19/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.150	0.00100	units	1	BGE1030	05/30/23	05/30/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/19/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.7		%	1	BGE1010	05/30/23	05/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/19/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.248	0.0100	mmhos/cm	1	BGE0966	05/26/23	05/26/23	EPA 120.1	

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

Date Sampled: **05/19/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BGE0965	05/26/23	05/26/23	EPA 9045D	

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Project: Noble - Timko C 31-22
Project Number: UWRWE-A3025-ABM
Project Manager: Paul Henchan

Reported:
05/31/23 15:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGE0794 - EPA 5030 Soil MS

Blank (BGE0794-BLK1)

Prepared & Analyzed: 05/23/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0435		"	0.0400		109	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

LCS (BGE0794-BS1)

Prepared: 05/23/23 Analyzed: 05/24/23

Benzene	0.145	0.0020	mg/kg	0.150		96.8	70-130			
Toluene	0.158	0.0050	"	0.150		106	70-130			
Ethylbenzene	0.152	0.0050	"	0.150		101	70-130			
m,p-Xylene	0.305	0.010	"	0.300		102	70-130			
o-Xylene	0.149	0.0050	"	0.150		99.5	70-130			
1,2,4-Trimethylbenzene	0.142	0.0050	"	0.150		94.4	70-130			
1,3,5-Trimethylbenzene	0.143	0.0050	"	0.150		95.6	70-130			
Naphthalene	0.133	0.0038	"	0.150		88.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0402		"	0.0400		100	50-150			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

Matrix Spike (BGE0794-MS1)

Source: 2305459-01

Prepared: 05/23/23 Analyzed: 05/24/23

Benzene	0.131	0.0020	mg/kg	0.150	ND	87.5	70-130			
Toluene	0.142	0.0050	"	0.150	ND	94.7	70-130			
Ethylbenzene	0.139	0.0050	"	0.150	ND	92.7	70-130			
m,p-Xylene	0.274	0.010	"	0.300	ND	91.4	70-130			
o-Xylene	0.133	0.0050	"	0.150	ND	89.0	70-130			
1,2,4-Trimethylbenzene	0.127	0.0050	"	0.150	ND	84.7	70-130			
1,3,5-Trimethylbenzene	0.129	0.0050	"	0.150	ND	86.1	70-130			
Naphthalene	0.118	0.0038	"	0.150	ND	78.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0386		"	0.0400		96.4	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.5	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Timko C 31-22
Project Number: UWRWE-A3025-ABM
Project Manager: Paul Henchan

Reported:
05/31/23 15:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BGE0794 - EPA 5030 Soil MS

Matrix Spike Dup (BGE0794-MSD1)	Source: 2305459-01			Prepared: 05/23/23 Analyzed: 05/24/23						
Benzene	0.136	0.0020	mg/kg	0.150	ND	90.7	70-130	3.62	30	
Toluene	0.149	0.0050	"	0.150	ND	99.2	70-130	4.58	30	
Ethylbenzene	0.143	0.0050	"	0.150	ND	95.6	70-130	3.08	30	
m,p-Xylene	0.287	0.010	"	0.300	ND	95.7	70-130	4.62	30	
o-Xylene	0.138	0.0050	"	0.150	ND	92.0	70-130	3.34	30	
1,2,4-Trimethylbenzene	0.131	0.0050	"	0.150	ND	87.3	70-130	3.00	30	
1,3,5-Trimethylbenzene	0.134	0.0050	"	0.150	ND	89.2	70-130	3.49	30	
Naphthalene	0.119	0.0038	"	0.150	ND	79.3	70-130	0.912	30	
Surrogate: 1,2-Dichloroethane-d4	0.0384		"	0.0400		96.1	50-150			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.5	50-150			

Summit Scientific

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Project Manager: Paul Henchan

Reported:
05/31/23 15:00

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGE0797 - EPA 3550A

Blank (BGE0797-BLK1)

Prepared & Analyzed: 05/23/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	15.0		"	12.5		120	30-150			

LCS (BGE0797-BS1)

Prepared & Analyzed: 05/23/23

C10-C28 (DRO)	459	50	mg/kg	500		91.9	70-130			
Surrogate: o-Terphenyl	15.3		"	12.5		122	30-150			

Matrix Spike (BGE0797-MS1)

Source: 2305459-01

Prepared & Analyzed: 05/23/23

C10-C28 (DRO)	523	50	mg/kg	500	ND	105	70-130			
Surrogate: o-Terphenyl	14.9		"	12.5		119	30-150			

Matrix Spike Dup (BGE0797-MSD1)

Source: 2305459-01

Prepared & Analyzed: 05/23/23

C10-C28 (DRO)	514	50	mg/kg	500	ND	103	70-130	1.78	20	
Surrogate: o-Terphenyl	14.4		"	12.5		115	30-150			

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Reported:
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PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGE0786 - EPA 5030 Soil MS

Blank (BGE0786-BLK1)

Prepared & Analyzed: 05/23/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0373		"	0.0333		112	40-150			
Surrogate: Fluoranthene-d10	0.0221		"	0.0333		66.4	40-150			

LCS (BGE0786-BS1)

Prepared & Analyzed: 05/23/23

Acenaphthene	0.0226	0.00500	mg/kg	0.0333		67.7	31-137			
Anthracene	0.0315	0.00500	"	0.0333		94.6	30-120			
Benzo (a) anthracene	0.0250	0.00500	"	0.0333		75.1	30-120			
Benzo (a) pyrene	0.0268	0.00500	"	0.0333		80.3	30-120			
Benzo (b) fluoranthene	0.0244	0.00500	"	0.0333		73.2	30-120			
Benzo (k) fluoranthene	0.0304	0.00500	"	0.0333		91.3	30-120			
Chrysene	0.0304	0.00500	"	0.0333		91.3	30-120			
Dibenz (a,h) anthracene	0.0373	0.00500	"	0.0333		112	30-120			
Fluoranthene	0.0224	0.00500	"	0.0333		67.1	30-120			
Fluorene	0.0267	0.00500	"	0.0333		80.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0396	0.00500	"	0.0333		119	30-120			
Pyrene	0.0352	0.00500	"	0.0333		106	35-142			
1-Methylnaphthalene	0.0298	0.00500	"	0.0333		89.3	35-142			
2-Methylnaphthalene	0.0325	0.00500	"	0.0333		97.4	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0308		"	0.0333		92.5	40-150			
Surrogate: Fluoranthene-d10	0.0206		"	0.0333		61.9	40-150			

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Project Manager: Paul Henchan

Reported:
05/31/23 15:00

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGE0786 - EPA 5030 Soil MS

Matrix Spike (BGE0786-MS1)			Source: 2305480-01		Prepared & Analyzed: 05/23/23					
Acenaphthene	0.0138	0.00500	mg/kg	0.0333	0.0101	11.1	31-137			QM-01
Anthracene	0.0175	0.00500	"	0.0333	0.0127	14.5	30-120			QM-01
Benzo (a) anthracene	0.0149	0.00500	"	0.0333	0.0123	7.84	30-120			QM-01
Benzo (a) pyrene	0.0170	0.00500	"	0.0333	0.0139	9.16	30-120			QM-01
Benzo (b) fluoranthene	0.0162	0.00500	"	0.0333	0.0114	14.2	30-120			QM-01
Benzo (k) fluoranthene	0.0190	0.00500	"	0.0333	0.0114	22.9	30-120			QM-01
Chrysene	0.0179	0.00500	"	0.0333	0.0150	8.75	30-120			QM-01
Dibenz (a,h) anthracene	0.0299	0.00500	"	0.0333	0.0218	24.3	30-120			QM-01
Fluoranthene	0.0173	0.00500	"	0.0333	0.00871	25.8	30-120			QM-01
Fluorene	0.0166	0.00500	"	0.0333	0.0104	18.6	30-120			QM-01
Indeno (1,2,3-cd) pyrene	0.0331	0.00500	"	0.0333	0.0198	39.9	30-120			QM-01
Pyrene	0.0347	0.00500	"	0.0333	0.0286	18.2	35-142			QM-01
1-Methylnaphthalene	0.0181	0.00500	"	0.0333	0.0129	15.5	15-130			QM-01
2-Methylnaphthalene	0.0199	0.00500	"	0.0333	0.0135	19.2	15-130			QM-01
Surrogate: 2-Methylnaphthalene-d10	0.0167		"	0.0333		50.0	40-150			QM-01
Surrogate: Fluoranthene-d10	0.0144		"	0.0333		43.1	40-150			QM-01

Matrix Spike Dup (BGE0786-MSD1)			Source: 2305480-01		Prepared & Analyzed: 05/23/23					
Acenaphthene	ND	0.00500	mg/kg	0.0333	0.0101	NR	31-137	200	30	QM-01
Anthracene	ND	0.00500	"	0.0333	0.0127	NR	30-120	200	30	QM-01
Benzo (a) anthracene	ND	0.00500	"	0.0333	0.0123	NR	30-120	200	30	QM-01
Benzo (a) pyrene	ND	0.00500	"	0.0333	0.0139	NR	30-120	200	30	QM-01
Benzo (b) fluoranthene	ND	0.00500	"	0.0333	0.0114	NR	30-120	200	30	QM-01
Benzo (k) fluoranthene	ND	0.00500	"	0.0333	0.0114	NR	30-120	200	30	QM-01
Chrysene	ND	0.00500	"	0.0333	0.0150	NR	30-120	200	30	QM-01
Dibenz (a,h) anthracene	ND	0.00500	"	0.0333	0.0218	NR	30-120	200	30	QM-01
Fluoranthene	ND	0.00500	"	0.0333	0.00871	NR	30-120	200	30	QM-01
Fluorene	ND	0.00500	"	0.0333	0.0104	NR	30-120	200	30	QM-01
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	0.0333	0.0198	NR	30-120	200	30	QM-01
Pyrene	0.00438	0.00500	"	0.0333	0.0286	NR	35-142	155	30	QM-01
1-Methylnaphthalene	ND	0.00500	"	0.0333	0.0129	NR	15-130	200	50	QM-01
2-Methylnaphthalene	ND	0.00500	"	0.0333	0.0135	NR	15-130	200	50	QM-01
Surrogate: 2-Methylnaphthalene-d10	0.0159		"	0.0333		47.7	40-150			QM-01
Surrogate: Fluoranthene-d10	0.00558		"	0.0333		16.7	40-150			QM-01

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Project: Noble - Timko C 31-22
Project Number: UWRWE-A3025-ABM
Project Manager: Paul Henchan

Reported:
05/31/23 15:00

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

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

Batch BGE0867 - EPA 3050B

Blank (BGE0867-BLK1)

Prepared: 05/24/23 Analyzed: 05/26/23

Boron ND 0.0100 mg/L

LCS (BGE0867-BS1)

Prepared: 05/24/23 Analyzed: 05/26/23

Boron 4.33 0.0100 mg/L 5.00 86.6 80-120

Duplicate (BGE0867-DUP1)

Source: 2305479-01

Prepared: 05/24/23 Analyzed: 05/26/23

Boron 0.120 0.0100 mg/L 0.129 7.39 20

Matrix Spike (BGE0867-MS1)

Source: 2305479-01

Prepared: 05/24/23 Analyzed: 05/26/23

Boron 4.09 0.0100 mg/L 5.00 0.129 79.3 75-125

Matrix Spike Dup (BGE0867-MSD1)

Source: 2305479-01

Prepared: 05/24/23 Analyzed: 05/26/23

Boron 4.21 0.0100 mg/L 5.00 0.129 81.5 75-125 2.73 25

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Project: Noble - Timko C 31-22
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Project Manager: Paul Henchan

Reported:
05/31/23 15:00

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

Summit Scientific

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

Batch BGE0908 - General Preparation

Blank (BGE0908-BLK1)

Prepared: 05/25/23 Analyzed: 05/29/23

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

LCS (BGE0908-BS1)

Prepared: 05/25/23 Analyzed: 05/29/23

Calcium	4.93	0.0500	mg/L wet	5.00	98.6	70-130
Magnesium	5.63	0.0500	"	5.00	113	70-130
Sodium	5.64	0.0500	"	5.00	113	70-130

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Project Manager: Paul Henchan

Reported:
05/31/23 15:00

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

Summit Scientific

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

Batch BGE1010 - General Preparation

Duplicate (BGE1010-DUP1)

Source: 2305480-01

Prepared & Analyzed: 05/30/23

% Solids	85.2	%	85.8	0.760	20
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Reported:
05/31/23 15:00

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

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

Batch BGE0966 - General Preparation

Blank (BGE0966-BLK1)

Prepared & Analyzed: 05/26/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGE0966-BS1)

Prepared & Analyzed: 05/26/23

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

Duplicate (BGE0966-DUP1)

Source: 2305479-01

Prepared & Analyzed: 05/26/23

Specific Conductance (EC) 0.890 0.0100 mmhos/cm 0.899 1.01 20

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Project Manager: Paul Henchan

Reported:
05/31/23 15:00

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

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

Batch BGE0965 - General Preparation

LCS (BGE0965-BS1)

Prepared & Analyzed: 05/26/23

pH	9.05	pH Units	9.18	98.6	95-105
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Duplicate (BGE0965-DUP1)

Source: 2305479-01

Prepared & Analyzed: 05/26/23

pH	9.16	pH Units	9.11	0.547	20
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05/31/23 15:00

Notes and Definitions

QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

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