

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 09, 2024

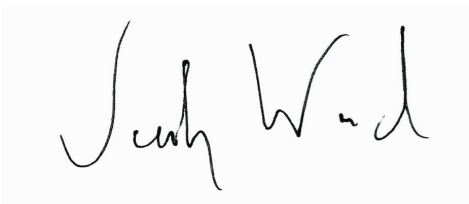
Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Noble - Rouse USX A05-19

Work Order #2404170

Enclosed are the results of analyses for samples received by Summit Scientific on 04/10/24 08:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black 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



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Rouse USX A05-19  
Project Number: UWRWE-A3655-ABN  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 15:50

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 3'	2404170-01	Soil	04/09/24 14:15	04/10/24 08:00
FL05 5'	2404170-02	Soil	04/09/24 14:10	04/10/24 08:00

### Case Narrative

Rerun analyses were performed by client request on 6/26/2024.  
The rerun results included in this report are denoted with "RE#."

This is a revision of the report originally sent on 6/26/2024 at 15:59 MT.

Summit Scientific

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

Lab ID	Page 1 of 1
2404170	

		<b>Send Data To:</b>	<b>Send Invoice To:</b>
Client: Fremont Environmental		Project Manager: Paul Henehan	Company: <i>Noble</i>
Address:		E-Mail: Fremont Distribution List	Project Name/Location:
City/State/Zip:			AFE#:
Phone: 303-261-6246		Project Name: <i>House USX A05-19</i>	PO/Billing Codes: <i>UWBWE - A3655-ABN</i>
Sampler Name: Stanley Gilbert		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	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		IDS, Chloride, Sulfate
1	FLO1 3'	4/9/24	14:15	2			X			X			X	X	X	X	X	X	
2	FLO5 5'	4/9/24	14:10	2			X			X			X	X	X	X	X	X	
3																			
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15																			

Relinquished by: <i>[Signature]</i>	Date/Time: 4/9/24 17:40	Received by: <i>Summit North</i>	Date/Time: 4/9/24 17:40	TAT Business Days	Field DO	Notes:
Relinquished by: <i>SL</i>	Date/Time: 4/9/24 0800	Received by: <i>[Signature]</i>	Date/Time: 4/9/24 0800	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 7.0	Corrected Temperature: 0	IR gun #: /	HNO3 lot #:	Standard	X Field Turb.	

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2404170

Client: Fremont Client Project ID: House UKX A0519

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? <sup>(1)</sup> <b>NOTE:</b> 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"/>	outside
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no sample times
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):

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

AB  
Custodian Printed Name

4/10/24  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 15:50

**FL01 3'**  
**2404170-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/09/24 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0397	04/12/24	04/13/24	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: **04/09/24 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0465	116 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0381	95.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0377	94.2 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/09/24 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0399	04/12/24	04/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/09/24 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.52	52.1 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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07/09/24 15:50

**FL01 3'**  
**2404170-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/09/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0393	04/12/24	04/13/24	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: **04/09/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0182	54.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0163	48.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/09/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0594	04/18/24	05/29/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/09/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 15:50

**FL01 3'**  
**2404170-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.95	0.200	mg/kg dry	1	BHD0888	04/24/24	05/15/24	EPA 6020B	
Barium	75.0	0.400	"	"	"	"	"	"	
Cadmium	0.327	0.200	"	"	"	"	"	"	
Copper	15.3	0.400	"	"	"	"	"	"	
Nickel	10.3	0.400	"	"	"	"	"	"	
Silver	0.0418	0.0200	"	"	"	"	"	"	
Zinc	24.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/09/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0671	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/09/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.8	0.0500	mg/L dry	1	BHD0960	04/25/24	05/21/24	EPA 6020B	
Magnesium	7.76	0.0500	"	"	"	"	"	"	
Sodium	9.40	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/09/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.411	0.00100	units	1	BHE0677	05/22/24	05/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/09/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.8		%	1	BHD0513	04/16/24	04/17/24	Calculation	

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Project Number: UWRWE-A3655-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 07/09/24 15:50

**FL01 3'**  
**2404170-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/09/24 14:15**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.159</b>	0.0100	mmhos/cm	1	BHD0961	04/25/24	04/30/24	EPA 120.1	

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

Date Sampled: **04/09/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>9.26</b>		pH Units	1	BHD0962	04/25/24	04/30/24	EPA 9045D	

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Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 07/09/24 15:50

**FL01 3'**  
**2404170-01RE1 (Soil)**


**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/09/24 14:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Lead	13.7	0.200	mg/kg dry	1	BHF0956	06/28/24	07/04/24	EPA 6020B	

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Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 15:50

**FL05 5'**  
**2404170-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/09/24 14:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0397	04/12/24	04/13/24	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: **04/09/24 14:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0423	106 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0374	93.5 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.2 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/09/24 14:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0399	04/12/24	04/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/09/24 14:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.97	55.8 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 15:50

**FL05 5'**  
**2404170-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/09/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0110	0.00500	mg/kg	1	BHD0393	04/12/24	04/13/24	EPA 8270D SIM	
Anthracene	0.0194	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0110	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0209	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0105	0.00500	"	"	"	"	"	"	
Chrysene	0.0240	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0681	0.00500	"	"	"	"	"	"	
Fluorene	0.0102	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0191	0.00500	"	"	"	"	"	"	
Pyrene	0.0707	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/09/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0252	75.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0230	69.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/09/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0594	04/18/24	05/29/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/09/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.18	0.200	mg/kg dry	1	BHD0873	04/24/24	05/09/24	EPA 6020B	
Barium	85.6	0.400	"	"	"	"	"	"	

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Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 15:50

**FL05 5'**  
**2404170-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cadmium	0.378	0.200	mg/kg dry	1	BHD0873	04/24/24	05/09/24	EPA 6020B	
Copper	6.72	0.400	"	"	"	"	"	"	
Lead	7.47	0.200	"	"	"	"	"	"	
Nickel	6.78	0.400	"	"	"	"	"	"	
Silver	0.0304	0.0200	"	"	"	"	"	"	
Zinc	27.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/09/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0671	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/09/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.9	0.0500	mg/L dry	1	BHD0960	04/25/24	05/21/24	EPA 6020B	
Magnesium	12.3	0.0500	"	"	"	"	"	"	
Sodium	56.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/09/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.34	0.00100	units	1	BHE0677	05/22/24	05/22/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/09/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.7		%	1	BHD0513	04/16/24	04/17/24	Calculation	

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 Project Manager: Paul Henchan

**Reported:**  
 07/09/24 15:50

**FL05 5'**  
**2404170-02 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/09/24 14:10**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.560</b>	0.0100		mmhos/cm	1	BHD0961	04/25/24	04/30/24	EPA 120.1	

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

Date Sampled: **04/09/24 14:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>8.90</b>			pH Units	1	BHD0962	04/25/24	04/30/24	EPA 9045D	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Rouse USX A05-19  
 Project Number: UWRWE-A3655-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 07/09/24 15:50

**FL05 5'**  
**2404170-02RE1 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

**I-04, O-05**


Date Sampled: **04/09/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzo (a) anthracene</b>	<b>0.0246</b>	0.00500	mg/kg	1	BHF0938	06/28/24	06/28/24	EPA 8270D SIM	

Date Sampled: **04/09/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0135	40.4 %	40-150		"	"	"	"	
<i>Surrogate: Fluoranthene-d10</i>	0.0151	45.3 %	40-150		"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 15:50

### 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 BHD0397 - EPA 5030 Soil MS

##### Blank (BHD0397-BLK1)

Prepared: 04/12/24 Analyzed: 04/13/24

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>	0.0427		"	0.0400		107	50-150			
<i>Surrogate: Toluene-d8</i>	0.0399		"	0.0400		99.8	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0398		"	0.0400		99.5	50-150			

##### LCS (BHD0397-BS1)

Prepared: 04/12/24 Analyzed: 04/13/24

Benzene	0.0782	0.0020	mg/kg	0.100		78.2	70-130			
Toluene	0.0988	0.0050	"	0.100		98.8	70-130			
Ethylbenzene	0.101	0.0050	"	0.100		101	70-130			
m,p-Xylene	0.193	0.010	"	0.200		96.7	70-130			
o-Xylene	0.0970	0.0050	"	0.100		97.0	70-130			
1,2,4-Trimethylbenzene	0.0956	0.0050	"	0.100		95.6	70-130			
1,3,5-Trimethylbenzene	0.0970	0.0050	"	0.100		97.0	70-130			
Naphthalene	0.0869	0.0038	"	0.100		86.9	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0375		"	0.0400		93.7	50-150			
<i>Surrogate: Toluene-d8</i>	0.0422		"	0.0400		106	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0385		"	0.0400		96.2	50-150			

##### Matrix Spike (BHD0397-MS1)

Source: 2404168-01

Prepared: 04/12/24 Analyzed: 04/13/24

Benzene	0.0667	0.0020	mg/kg	0.100	ND	66.7	70-130			QM-07
Toluene	0.0703	0.0050	"	0.100	ND	70.3	70-130			
Ethylbenzene	0.0801	0.0050	"	0.100	ND	80.1	70-130			
m,p-Xylene	0.147	0.010	"	0.200	ND	73.7	70-130			
o-Xylene	0.0752	0.0050	"	0.100	ND	75.2	70-130			
1,2,4-Trimethylbenzene	0.0641	0.0050	"	0.100	ND	64.1	70-130			QM-07
1,3,5-Trimethylbenzene	0.0712	0.0050	"	0.100	ND	71.2	70-130			
Naphthalene	0.0540	0.0038	"	0.100	ND	54.0	70-130			QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0341		"	0.0400		85.2	50-150			
<i>Surrogate: Toluene-d8</i>	0.0392		"	0.0400		98.0	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0392		"	0.0400		97.9	50-150			

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 07/09/24 15:50

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BHD0397 - EPA 5030 Soil MS**

Matrix Spike Dup (BHD0397-MSD1)	Source: 2404168-01			Prepared: 04/12/24 Analyzed: 04/13/24						
Benzene	0.0698	0.0020	mg/kg	0.100	ND	69.8	70-130	4.61	30	QM-07
Toluene	0.0742	0.0050	"	0.100	ND	74.2	70-130	5.48	30	
Ethylbenzene	0.0824	0.0050	"	0.100	ND	82.4	70-130	2.81	30	
m,p-Xylene	0.153	0.010	"	0.200	ND	76.4	70-130	3.66	30	
o-Xylene	0.0778	0.0050	"	0.100	ND	77.8	70-130	3.41	30	
1,2,4-Trimethylbenzene	0.0667	0.0050	"	0.100	ND	66.7	70-130	3.99	30	QM-07
1,3,5-Trimethylbenzene	0.0730	0.0050	"	0.100	ND	73.0	70-130	2.54	30	
Naphthalene	0.0522	0.0038	"	0.100	ND	52.2	70-130	3.39	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0386		"	0.0400		96.4	50-150			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.7	50-150			

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Wellington CO, 80549

Project: Noble - Rouse USX A05-19  
Project Number: UWRWE-A3655-ABN  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 15:50

**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 BHD0399 - EPA 3550A**

**Blank (BHD0399-BLK1)**

Prepared & Analyzed: 04/12/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.2		"	12.5		106		30-150			

**LCS (BHD0399-BS1)**

Prepared & Analyzed: 04/12/24

C10-C28 (DRO)	420	50	mg/kg	500		84.1		70-130			
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5		97.9		30-150			

**Matrix Spike (BHD0399-MS1)**

Source: 2404168-01

Prepared: 04/12/24 Analyzed: 04/15/24

C10-C28 (DRO)	350	50	mg/kg	500	23.9	65.3		70-130			QM-07
Surrogate: <i>o</i> -Terphenyl	7.69		"	12.5		61.5		30-150			

**Matrix Spike Dup (BHD0399-MSD1)**

Source: 2404168-01

Prepared: 04/12/24 Analyzed: 04/15/24

C10-C28 (DRO)	233	50	mg/kg	500	23.9	41.8		70-130	40.3	20	QM-07
Surrogate: <i>o</i> -Terphenyl	5.38		"	12.5		43.1		30-150			

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Rouse USX A05-19  
Project Number: UWRWE-A3655-ABN  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 15:50

**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 BHD0393 - EPA 5030 Soil MS**

**Blank (BHD0393-BLK1)**

Prepared: 04/12/24 Analyzed: 04/13/24

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>0.0388</i>		"	<i>0.0333</i>		<i>116</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0343</i>		"	<i>0.0333</i>		<i>103</i>		<i>40-150</i>		

**LCS (BHD0393-BS1)**

Prepared: 04/12/24 Analyzed: 04/13/24

Acenaphthene	0.0342	0.00500	mg/kg	0.0333	103	31-137
Anthracene	0.0340	0.00500	"	0.0333	102	30-120
Benzo (a) anthracene	0.0246	0.00500	"	0.0333	73.7	30-120
Benzo (a) pyrene	0.0285	0.00500	"	0.0333	85.6	30-120
Benzo (b) fluoranthene	0.0291	0.00500	"	0.0333	87.3	30-120
Benzo (k) fluoranthene	0.0346	0.00500	"	0.0333	104	30-120
Chrysene	0.0349	0.00500	"	0.0333	105	30-120
Dibenz (a,h) anthracene	0.0291	0.00500	"	0.0333	87.3	30-120
Fluoranthene	0.0306	0.00500	"	0.0333	91.8	30-120
Fluorene	0.0222	0.00500	"	0.0333	66.6	30-120
Indeno (1,2,3-cd) pyrene	0.0316	0.00500	"	0.0333	94.9	30-120
Pyrene	0.0444	0.00500	"	0.0333	133	35-142
1-Methylnaphthalene	0.0349	0.00500	"	0.0333	105	35-142
2-Methylnaphthalene	0.0262	0.00500	"	0.0333	78.6	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0368</i>		"	<i>0.0333</i>	<i>110</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0296</i>		"	<i>0.0333</i>	<i>88.7</i>	<i>40-150</i>

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Wellington CO, 80549

Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 15:50

**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 BHD0393 - EPA 5030 Soil MS**

**Matrix Spike (BHD0393-MS1)**

Source: 2404169-01

Prepared: 04/12/24 Analyzed: 04/13/24

Acenaphthene	0.0267	0.00500	mg/kg	0.0333	ND	80.2	31-137			
Anthracene	0.0266	0.00500	"	0.0333	ND	79.8	30-120			
Benzo (a) anthracene	0.0216	0.00500	"	0.0333	ND	64.7	30-120			
Benzo (a) pyrene	0.0192	0.00500	"	0.0333	ND	57.5	30-120			
Benzo (b) fluoranthene	0.0180	0.00500	"	0.0333	ND	54.0	30-120			
Benzo (k) fluoranthene	0.0238	0.00500	"	0.0333	ND	71.3	30-120			
Chrysene	0.0286	0.00500	"	0.0333	ND	85.9	30-120			
Dibenz (a,h) anthracene	0.0222	0.00500	"	0.0333	ND	66.6	30-120			
Fluoranthene	0.0264	0.00500	"	0.0333	ND	79.1	30-120			
Fluorene	0.0194	0.00500	"	0.0333	ND	58.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0262	0.00500	"	0.0333	ND	78.6	30-120			
Pyrene	0.0337	0.00500	"	0.0333	ND	101	35-142			
1-Methylnaphthalene	0.0269	0.00500	"	0.0333	ND	80.8	15-130			
2-Methylnaphthalene	0.0238	0.00500	"	0.0333	ND	71.3	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0282		"	0.0333		84.6	40-150			
Surrogate: Fluoranthene-d10	0.0257		"	0.0333		77.2	40-150			

**Matrix Spike Dup (BHD0393-MSD1)**

Source: 2404169-01

Prepared: 04/12/24 Analyzed: 04/13/24

Acenaphthene	0.0253	0.00500	mg/kg	0.0333	ND	75.9	31-137	5.46	30	
Anthracene	0.0248	0.00500	"	0.0333	ND	74.5	30-120	6.83	30	
Benzo (a) anthracene	0.0204	0.00500	"	0.0333	ND	61.2	30-120	5.59	30	
Benzo (a) pyrene	0.0183	0.00500	"	0.0333	ND	54.8	30-120	4.76	30	
Benzo (b) fluoranthene	0.0175	0.00500	"	0.0333	ND	52.4	30-120	2.99	30	
Benzo (k) fluoranthene	0.0227	0.00500	"	0.0333	ND	68.0	30-120	4.72	30	
Chrysene	0.0264	0.00500	"	0.0333	ND	79.1	30-120	8.18	30	
Dibenz (a,h) anthracene	0.0172	0.00500	"	0.0333	ND	51.7	30-120	25.2	30	
Fluoranthene	0.0239	0.00500	"	0.0333	ND	71.6	30-120	10.0	30	
Fluorene	0.0178	0.00500	"	0.0333	ND	53.3	30-120	8.84	30	
Indeno (1,2,3-cd) pyrene	0.0249	0.00500	"	0.0333	ND	74.6	30-120	5.19	30	
Pyrene	0.0300	0.00500	"	0.0333	ND	89.9	35-142	11.6	30	
1-Methylnaphthalene	0.0255	0.00500	"	0.0333	ND	76.6	15-130	5.22	50	
2-Methylnaphthalene	0.0198	0.00500	"	0.0333	ND	59.4	15-130	18.3	50	
Surrogate: 2-Methylnaphthalene-d10	0.0275		"	0.0333		82.4	40-150			
Surrogate: Fluoranthene-d10	0.0239		"	0.0333		71.7	40-150			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 15:50

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BHF0938 - EPA 5030 Soil MS**

**Blank (BHF0938-BLK1)**

Prepared & Analyzed: 06/28/24

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>0.0135</i>		"	<i>0.0333</i>		<i>40.4</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0144</i>		"	<i>0.0333</i>		<i>43.2</i>	<i>40-150</i>			

**LCS (BHF0938-BS1)**

Prepared & Analyzed: 06/28/24

Acenaphthene	0.0276	0.00500	mg/kg	0.0333		82.7	31-137			
Anthracene	0.0243	0.00500	"	0.0333		73.0	30-120			
Benzo (a) anthracene	0.0218	0.00500	"	0.0333		65.5	30-120			
Benzo (a) pyrene	0.0141	0.00500	"	0.0333		42.2	30-120			
Benzo (b) fluoranthene	0.0137	0.00500	"	0.0333		41.0	30-120			
Benzo (k) fluoranthene	0.0139	0.00500	"	0.0333		41.8	30-120			
Chrysene	0.0197	0.00500	"	0.0333		59.2	30-120			
Dibenz (a,h) anthracene	0.0175	0.00500	"	0.0333		52.5	30-120			
Fluoranthene	0.0262	0.00500	"	0.0333		78.5	30-120			
Fluorene	0.0209	0.00500	"	0.0333		62.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0191	0.00500	"	0.0333		57.4	30-120			
Pyrene	0.0179	0.00500	"	0.0333		53.8	35-142			
1-Methylnaphthalene	0.0186	0.00500	"	0.0333		55.8	35-142			
2-Methylnaphthalene	0.0190	0.00500	"	0.0333		57.1	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0183</i>		"	<i>0.0333</i>		<i>54.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0276</i>		"	<i>0.0333</i>		<i>82.8</i>	<i>40-150</i>			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 15:50

**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 BHF0938 - EPA 5030 Soil MS**

<b>Matrix Spike (BHF0938-MS1)</b>	<b>Source: 2406444-02</b>			<b>Prepared &amp; Analyzed: 06/28/24</b>							
Acenaphthene	0.0145	0.00500	mg/kg	0.0333	ND	43.4	31-137				
Anthracene	0.0182	0.00500	"	0.0333	ND	54.6	30-120				
Benzo (a) anthracene	0.0166	0.00500	"	0.0333	ND	49.9	30-120				
Benzo (a) pyrene	0.0157	0.00500	"	0.0333	ND	47.2	30-120				
Benzo (b) fluoranthene	0.0137	0.00500	"	0.0333	ND	41.1	30-120				
Benzo (k) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.4	30-120				
Chrysene	0.0146	0.00500	"	0.0333	ND	43.9	30-120				
Dibenz (a,h) anthracene	0.0142	0.00500	"	0.0333	ND	42.5	30-120				
Fluoranthene	0.0151	0.00500	"	0.0333	ND	45.2	30-120				
Fluorene	0.0161	0.00500	"	0.0333	ND	48.2	30-120				
Indeno (1,2,3-cd) pyrene	0.0182	0.00500	"	0.0333	ND	54.7	30-120				
Pyrene	0.0178	0.00500	"	0.0333	ND	53.4	35-142				
1-Methylnaphthalene	0.0138	0.00500	"	0.0333	ND	41.4	15-130				
2-Methylnaphthalene	0.0137	0.00500	"	0.0333	ND	41.1	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0138</i>		<i>"</i>	<i>0.0333</i>		<i>41.5</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0165</i>		<i>"</i>	<i>0.0333</i>		<i>49.4</i>	<i>40-150</i>				

<b>Matrix Spike Dup (BHF0938-MSD1)</b>	<b>Source: 2406444-02</b>			<b>Prepared &amp; Analyzed: 06/28/24</b>							
Acenaphthene	0.0141	0.00500	mg/kg	0.0333	ND	42.2	31-137	2.84	30		
Anthracene	0.0193	0.00500	"	0.0333	ND	57.9	30-120	5.85	30		
Benzo (a) anthracene	0.0212	0.00500	"	0.0333	ND	63.6	30-120	24.1	30		
Benzo (a) pyrene	0.0135	0.00500	"	0.0333	ND	40.4	30-120	15.5	30		
Benzo (b) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.6	30-120	12.7	30		
Benzo (k) fluoranthene	0.0146	0.00500	"	0.0333	ND	43.7	30-120	5.86	30		
Chrysene	0.0161	0.00500	"	0.0333	ND	48.3	30-120	9.47	30		
Dibenz (a,h) anthracene	0.0185	0.00500	"	0.0333	ND	55.6	30-120	26.7	30		
Fluoranthene	0.0196	0.00500	"	0.0333	ND	58.9	30-120	26.2	30		
Fluorene	0.0145	0.00500	"	0.0333	ND	43.4	30-120	10.4	30		
Indeno (1,2,3-cd) pyrene	0.0200	0.00500	"	0.0333	ND	59.9	30-120	9.17	30		
Pyrene	0.0154	0.00500	"	0.0333	ND	46.1	35-142	14.7	30		
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.4	15-130	19.6	50		
2-Methylnaphthalene	0.0166	0.00500	"	0.0333	ND	49.9	15-130	19.5	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0167</i>		<i>"</i>	<i>0.0333</i>		<i>50.2</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0205</i>		<i>"</i>	<i>0.0333</i>		<i>61.5</i>	<i>40-150</i>				

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 07/09/24 15:50

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

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

**Batch BHD0594 - EPA 3050B**

**Blank (BHD0594-BLK1)**

Prepared: 04/18/24 Analyzed: 05/29/24

Boron ND 2.00 mg/L

**LCS (BHD0594-BS1)**

Prepared: 04/18/24 Analyzed: 05/29/24

Boron 5.59 2.00 mg/L 5.00 112 80-120

**Duplicate (BHD0594-DUP1)**

**Source: 2404166-01**

Prepared: 04/18/24 Analyzed: 05/29/24

Boron 0.441 2.00 mg/L 0.433 1.73 20

**Matrix Spike (BHD0594-MS1)**

**Source: 2404166-01**

Prepared: 04/18/24 Analyzed: 05/29/24

Boron 5.44 2.00 mg/L 5.00 0.433 100 75-125

**Matrix Spike Dup (BHD0594-MSD1)**

**Source: 2404166-01**

Prepared: 04/18/24 Analyzed: 05/29/24

Boron 5.99 2.00 mg/L 5.00 0.433 111 75-125 9.69 25

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Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 07/09/24 15:50

**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 BHD0873 - EPA 3050B**

**Blank (BHD0873-BLK1)**

Prepared: 04/24/24 Analyzed: 05/09/24

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 (BHD0873-BS1)**

Prepared: 04/24/24 Analyzed: 05/09/24

Arsenic	38.9	0.200	mg/kg wet	40.0	97.3	80-120
Barium	39.1	0.400	"	40.0	97.8	80-120
Cadmium	1.88	0.200	"	2.00	94.2	80-120
Copper	38.3	0.400	"	40.0	95.9	80-120
Lead	18.9	0.200	"	20.0	94.4	80-120
Nickel	38.1	0.400	"	40.0	95.2	80-120
Silver	1.87	0.0200	"	2.00	93.7	80-120
Zinc	38.1	0.400	"	40.0	95.3	80-120
Selenium	4.05	0.260	"	4.00	101	80-120

**Duplicate (BHD0873-DUP1)**

Source: 2404158-01

Prepared: 04/24/24 Analyzed: 05/09/24

Arsenic	6.33	0.200	mg/kg dry	6.25	1.37	20	
Barium	125	0.400	"	234	60.6	20	QR-04
Cadmium	0.288	0.200	"	0.283	1.72	20	
Copper	15.7	0.400	"	15.3	2.92	20	
Lead	12.7	0.200	"	12.8	0.854	20	
Nickel	17.6	0.400	"	17.4	1.18	20	
Silver	0.0724	0.0200	"	0.0678	6.56	20	
Zinc	59.5	0.400	"	59.5	0.139	20	
Selenium	ND	0.260	"	ND		20	

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Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 15:50

**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 BHD0873 - EPA 3050B**

<b>Matrix Spike (BHD0873-MS1)</b>	<b>Source: 2404158-01</b>			<b>Prepared: 04/24/24 Analyzed: 05/09/24</b>								
Arsenic	48.9	0.200	mg/kg dry	44.9	6.25	95.0	75-125					
Barium	154	0.400	"	44.9	234	NR	75-125					QM-07
Cadmium	2.43	0.200	"	2.24	0.283	95.7	75-125					
Copper	57.4	0.400	"	44.9	15.3	93.9	75-125					
Lead	32.4	0.200	"	22.4	12.8	87.4	75-125					
Nickel	60.4	0.400	"	44.9	17.4	95.8	75-125					
Silver	2.17	0.0200	"	2.24	0.0678	93.7	75-125					
Zinc	102	0.400	"	44.9	59.5	93.9	75-125					
Selenium	4.47	0.260	"	4.49	ND	99.6	75-125					

<b>Matrix Spike Dup (BHD0873-MSD1)</b>	<b>Source: 2404158-01</b>			<b>Prepared: 04/24/24 Analyzed: 05/09/24</b>								
Arsenic	48.3	0.200	mg/kg dry	44.9	6.25	93.6	75-125	1.28	25			
Barium	154	0.400	"	44.9	234	NR	75-125	0.0816	25			QM-07
Cadmium	2.47	0.200	"	2.24	0.283	97.4	75-125	1.61	25			
Copper	56.8	0.400	"	44.9	15.3	92.5	75-125	1.07	25			
Lead	32.4	0.200	"	22.4	12.8	87.4	75-125	0.0208	25			
Nickel	59.4	0.400	"	44.9	17.4	93.8	75-125	1.55	25			
Silver	2.17	0.0200	"	2.24	0.0678	93.7	75-125	0.0620	25			
Zinc	100	0.400	"	44.9	59.5	90.7	75-125	1.43	25			
Selenium	4.25	0.260	"	4.49	ND	94.6	75-125	5.21	25			

**Batch BHD0888 - EPA 3050B**

<b>Blank (BHD0888-BLK1)</b>	<b>Prepared: 04/24/24 Analyzed: 05/15/24</b>											
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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Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 15:50

**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 BHD0888 - EPA 3050B**

**LCS (BHD0888-BS1)**

Prepared: 04/24/24 Analyzed: 05/15/24

Arsenic	38.7	0.200	mg/kg wet	40.0		96.9	80-120			
Barium	38.4	0.400	"	40.0		96.0	80-120			
Cadmium	1.80	0.200	"	2.00		89.8	80-120			
Copper	38.7	0.400	"	40.0		96.7	80-120			
Lead	18.3	0.200	"	20.0		91.4	80-120			
Nickel	38.4	0.400	"	40.0		96.0	80-120			
Silver	1.82	0.0200	"	2.00		90.8	80-120			
Zinc	37.6	0.400	"	40.0		94.0	80-120			
Selenium	3.86	0.260	"	4.00		96.6	80-120			

**Duplicate (BHD0888-DUP1)**

Source: 2404170-01

Prepared: 04/24/24 Analyzed: 05/15/24

Arsenic	7.75	0.200	mg/kg dry		5.95			26.4	20	QM-04
Barium	229	0.400	"		75.0			101	20	QM-04
Cadmium	0.289	0.200	"		0.327			12.4	20	
Copper	17.8	0.400	"		15.3			14.8	20	
Lead	19.3	0.200	"		21.0			8.51	20	
Nickel	12.7	0.400	"		10.3			20.8	20	QM-04
Silver	0.0453	0.0200	"		0.0418			7.94	20	
Zinc	26.7	0.400	"		24.8			7.40	20	
Selenium	0.213	0.260	"		0.190			11.4	20	

**Matrix Spike (BHD0888-MS1)**

Source: 2404170-01

Prepared: 04/24/24 Analyzed: 05/15/24

Arsenic	52.0	0.200	mg/kg dry	45.2	5.95	102	75-125			
Barium	288	0.400	"	45.2	75.0	471	75-125			QM-07
Cadmium	2.45	0.200	"	2.26	0.327	93.9	75-125			
Copper	60.0	0.400	"	45.2	15.3	98.7	75-125			
Lead	32.7	0.200	"	22.6	21.0	51.9	75-125			QM-07
Nickel	56.9	0.400	"	45.2	10.3	103	75-125			
Silver	2.21	0.0200	"	2.26	0.0418	96.1	75-125			
Zinc	45.1	0.400	"	45.2	24.8	44.8	75-125			QM-07
Selenium	3.65	0.260	"	4.52	0.190	76.7	75-125			

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Wellington CO, 80549

Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 15:50

**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 BHD0888 - EPA 3050B**

**Matrix Spike Dup (BHD0888-MSD1)**

Source: 2404170-01

Prepared: 04/24/24 Analyzed: 05/15/24

Arsenic	51.1	0.200	mg/kg dry	45.2	5.95	99.8	75-125	1.82	25	
Barium	289	0.400	"	45.2	75.0	473	75-125	0.293	25	QM-07
Cadmium	2.47	0.200	"	2.26	0.327	94.9	75-125	0.937	25	
Copper	59.1	0.400	"	45.2	15.3	96.7	75-125	1.55	25	
Lead	32.6	0.200	"	22.6	21.0	51.3	75-125	0.409	25	QM-07
Nickel	56.1	0.400	"	45.2	10.3	101	75-125	1.38	25	
Silver	2.22	0.0200	"	2.26	0.0418	96.6	75-125	0.448	25	
Zinc	45.0	0.400	"	45.2	24.8	44.6	75-125	0.193	25	QM-07
Selenium	3.62	0.260	"	4.52	0.190	75.8	75-125	1.07	25	

**Batch BHF0956 - EPA 3050B**

**Blank (BHF0956-BLK1)**

Prepared: 06/28/24 Analyzed: 07/04/24

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 (BHF0956-BS1)**

Prepared: 06/28/24 Analyzed: 07/04/24

Arsenic	41.7	0.200	mg/kg wet	40.0		104	80-120			
Barium	40.8	0.400	"	40.0		102	80-120			
Cadmium	1.97	0.200	"	2.00		98.3	80-120			
Copper	41.9	0.400	"	40.0		105	80-120			
Lead	19.6	0.200	"	20.0		98.0	80-120			
Nickel	41.4	0.400	"	40.0		103	80-120			
Silver	1.98	0.0200	"	2.00		98.8	80-120			
Zinc	40.9	0.400	"	40.0		102	80-120			
Selenium	4.51	0.260	"	4.00		113	80-120			

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Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 15:50

**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 BHF0956 - EPA 3050B**

<b>Duplicate (BHF0956-DUP1)</b>		<b>Source: 2404170-01RE1</b>			Prepared: 06/28/24		Analyzed: 07/04/24	
Arsenic	6.71	0.200	mg/kg dry	8.41		22.5	20	QR-04
Barium	80.0	0.400	"	59.5		29.4	20	QR-04
Cadmium	0.337	0.200	"	0.313		7.18	20	
Copper	14.4	0.400	"	17.0		16.1	20	
Lead	12.3	0.200	"	13.7		10.8	20	
Nickel	10.9	0.400	"	12.8		16.8	20	
Silver	0.0439	0.0200	"	0.0408		7.50	20	
Zinc	51.8	0.400	"	60.5		15.6	20	
Selenium	0.261	0.260	"	0.243		6.88	20	

<b>Matrix Spike (BHF0956-MS1)</b>		<b>Source: 2404170-01RE1</b>			Prepared: 06/28/24		Analyzed: 07/04/24	
Arsenic	52.5	0.200	mg/kg dry	45.9	8.41	96.0	75-125	
Barium	625	0.400	"	45.9	59.5	NR	75-125	QM-07
Cadmium	2.56	0.200	"	2.30	0.313	98.1	75-125	
Copper	59.3	0.400	"	45.9	17.0	92.2	75-125	
Lead	34.1	0.200	"	23.0	13.7	88.7	75-125	
Nickel	55.6	0.400	"	45.9	12.8	93.1	75-125	
Silver	2.26	0.0200	"	2.30	0.0408	96.7	75-125	
Zinc	99.1	0.400	"	45.9	60.5	83.9	75-125	
Selenium	4.92	0.260	"	4.59	0.243	102	75-125	

<b>Matrix Spike Dup (BHF0956-MSD1)</b>		<b>Source: 2404170-01RE1</b>			Prepared: 06/28/24		Analyzed: 07/04/24		
Arsenic	49.9	0.200	mg/kg dry	44.5	8.41	93.3	75-125	4.95	25
Barium	398	0.400	"	44.5	59.5	760	75-125	44.5	25
Cadmium	2.53	0.200	"	2.23	0.313	99.4	75-125	1.52	25
Copper	59.3	0.400	"	44.5	17.0	95.0	75-125	0.0680	25
Lead	33.7	0.200	"	22.3	13.7	89.7	75-125	1.16	25
Nickel	56.2	0.400	"	44.5	12.8	97.3	75-125	1.04	25
Silver	2.22	0.0200	"	2.23	0.0408	98.1	75-125	1.69	25
Zinc	102	0.400	"	44.5	60.5	92.2	75-125	2.51	25
Selenium	4.97	0.260	"	4.45	0.243	106	75-125	0.939	25

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Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 07/09/24 15:50

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BHD0671 - 3060A Mod**

**Blank (BHD0671-BLK1)**

Prepared & Analyzed: 04/19/24

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BHD0671-BS1)**

Prepared & Analyzed: 04/19/24

Chromium, Hexavalent      24.7      0.30    mg/kg wet      25.0      98.8      80-120

**Duplicate (BHD0671-DUP1)**

**Source: 2404158-01**

Prepared & Analyzed: 04/19/24

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      20

**Matrix Spike (BHD0671-MS1)**

**Source: 2404158-01**

Prepared & Analyzed: 04/19/24

Chromium, Hexavalent      28.8      0.30    mg/kg dry      29.2      ND      98.6      75-125

**Matrix Spike Dup (BHD0671-MSD1)**

**Source: 2404158-01**

Prepared & Analyzed: 04/19/24

Chromium, Hexavalent      28.8      0.30    mg/kg dry      29.2      ND      98.6      75-125      0.00      20

Summit Scientific

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Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 07/09/24 15:50

**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 BHD0960 - General Preparation**

**Blank (BHD0960-BLK1)**

Prepared: 04/25/24 Analyzed: 05/21/24

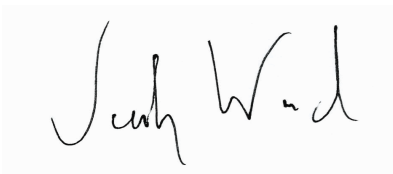
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

**LCS (BHD0960-BS1)**

Prepared: 04/25/24 Analyzed: 05/21/24

Calcium	5.21	0.0500	mg/L wet	5.00		104	70-130			
Magnesium	4.98	0.0500	"	5.00		99.6	70-130			
Sodium	4.91	0.0500	"	5.00		98.1	70-130			

Summit Scientific



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Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 07/09/24 15:50

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


**Summit Scientific**

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

**Batch BHD0513 - General Preparation**

Duplicate (BHD0513-DUP1)	Source: 2402304-04			Prepared: 04/16/24 Analyzed: 04/17/24	
% Solids	83.0	%		82.5	0.586 20

Summit Scientific



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



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 07/09/24 15:50

**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 BHD0961 - General Preparation**

**Blank (BHD0961-BLK1)**

Prepared: 04/25/24 Analyzed: 04/30/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHD0961-BS1)**

Prepared: 04/25/24 Analyzed: 04/30/24

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105


**Duplicate (BHD0961-DUP1)**

**Source: 2404167-01**

Prepared: 04/25/24 Analyzed: 04/30/24

Specific Conductance (EC) 0.202 0.0100 mmhos/cm 0.203 0.444 20

Summit Scientific



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Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
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**Reported:**  
 07/09/24 15:50

**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 BHD0962 - General Preparation**

**LCS (BHD0962-BS1)**

Prepared: 04/25/24 Analyzed: 04/30/24

pH	9.20	pH Units	9.18	100	95-105
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**Duplicate (BHD0962-DUP1)**

Source: 2404167-01

Prepared: 04/25/24 Analyzed: 04/30/24

pH	8.52	pH Units	8.46	0.707	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
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Project: Noble - Rouse USX A05-19

Project Number: UWRWE-A3655-ABN  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 15:50

### Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-04 Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.
- O-05 This sample was extracted outside of the EPA recommended holding time.
- I-04 Sample was analyzed out of recommended holding time per clients request.
- 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