

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 07, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

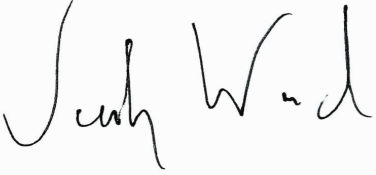
Wellington, CO 80549

RE: Noble - Prospect CO 26-09I4

Work Order #2410005

Enclosed are the results of analyses for samples received by Summit Scientific on 10/01/24 16:06. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Prospect CO 26-09I4

Project Number: UWRWE-A3179-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/07/24 12:37

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 6.0FT	2410005-01	Soil	10/01/24 00:00	10/01/24 16:06
SB-2 6.0FT	2410005-02	Soil	10/01/24 00:00	10/01/24 16:06
SB-3 6.0FT	2410005-03	Soil	10/01/24 00:00	10/01/24 16:06
SB-4 6.0FT	2410005-04	Soil	10/01/24 00:00	10/01/24 16:06
SB-5 6.0FT	2410005-05	Soil	10/01/24 00:00	10/01/24 16:06

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.*

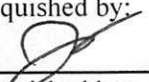
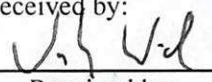
# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2410005	

Client: Fremont Env		Send Data To:		Send Invoice To:	
Address:		Project Manager: Paul Henahan		Company: Noble	
City/State/Zip:		E-Mail: PaulH@fremontenv.com		Project Name/Location:	
Phone:		jeff@fremontenv.com EthenB@fremontenv.com		AFE#:	
Sampler Name: JG		Project Name: Prospect CO 26-014		PO/Billing Codes: UWRWE-A3174-ABN	
		Project Number:		Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested										Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEX+N	TMBs (915)	DRD,ORO,GRO	PAHs (915)	HOLD!!!						
1	SB-1 6.0Ft	10/01/24		2			X			X			X	X	X	X							
2	SB-2 6.0Ft												X	X	X	X							
3	SB-3 6.0Ft												X	X	X	X							
4	SB-4 6.0Ft												X	X	X	X							
5	SB-5 6.0Ft												X	X	X	X							
6	SB-1 7.0Ft																X						
7	SB-2 7.0Ft																X						
8	SB-3 7.0Ft																X						
9	SB-4 7.0Ft																X						
10	SB-5 7.0Ft	✓		✓			✓			✓							X						
11																							
12																							
13																							
14																							
15																							

Relinquished by: 	Date/Time: 10/01/24 1606	Received by: 	Date/Time: 10/1/24 16:06	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 5.6	Corrected Temperature	IR gun #: 2	HNO3 lot #:			

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2410005Client: Noble-Fremont Client Project ID: Project CO 26-0914Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 5.6 Thermometer # 2

	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"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<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 <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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No Sample time
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 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)? <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.				

Control Form #: SRC-001

  
 Custodian Printed Name

10/1/24 16:06  
 Date/Time





Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Prospect CO 26-09I4  
Project Number: UWRWE-A3179-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/07/24 12:37

**SB-1 6.0FT**  
**2410005-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0111	10/02/24	10/04/24	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: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0382	95.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0409	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0384	96.1 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0112	10/02/24	10/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.0	87.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Prospect CO 26-09I4  
Project Number: UWRWE-A3179-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/07/24 12:37

**SB-1 6.0FT**  
**2410005-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0059	10/02/24	10/03/24	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: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0146	43.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0155	46.4 %	40-150		"	"	"	"	

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Project: Noble - Prospect CO 26-09I4  
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Project Manager: Paul Henchan

**Reported:**  
10/07/24 12:37

**SB-2 6.0FT**  
**2410005-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0111	10/02/24	10/04/24	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: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0353	88.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.4 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0112	10/02/24	10/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.6	93.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Prospect CO 26-0914  
Project Number: UWRWE-A3179-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/07/24 12:37

**SB-2 6.0FT**  
**2410005-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0059	10/02/24	10/03/24	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: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0142	42.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0151	45.3 %	40-150		"	"	"	"	

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Project: Noble - Prospect CO 26-09I4  
Project Number: UWRWE-A3179-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/07/24 12:37

**SB-3 6.0FT**  
**2410005-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0111	10/02/24	10/04/24	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: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0354	88.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0383	95.8 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0112	10/02/24	10/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.4	90.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Prospect CO 26-09I4  
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Project Manager: Paul Henchan

**Reported:**  
10/07/24 12:37

**SB-3 6.0FT**  
**2410005-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0059	10/02/24	10/03/24	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: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0138	41.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0142	42.7 %	40-150		"	"	"	"	

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Project: Noble - Prospect CO 26-09I4  
Project Number: UWRWE-A3179-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/07/24 12:37

**SB-4 6.0FT**  
**2410005-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0111	10/02/24	10/04/24	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: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0367	91.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.4 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0112	10/02/24	10/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.5	91.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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**Reported:**  
10/07/24 12:37

**SB-4 6.0FT**  
**2410005-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0059	10/02/24	10/03/24	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: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0183	54.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0195	58.6 %	40-150		"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Prospect CO 26-09I4  
Project Number: UWRWE-A3179-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/07/24 12:37

**SB-5 6.0FT**  
**2410005-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0111	10/02/24	10/04/24	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: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0351	87.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0383	95.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0381	95.3 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0112	10/02/24	10/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.0	88.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Prospect CO 26-09I4  
Project Number: UWRWE-A3179-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/07/24 12:37

**SB-5 6.0FT**  
**2410005-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0059	10/02/24	10/03/24	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: **10/01/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0178	53.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0207	62.0 %	40-150		"	"	"	"	

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Wellington CO, 80549

Project: Noble - Prospect CO 26-0914  
Project Number: UWRWE-A3179-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/07/24 12:37

## 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 BHJ0111 - EPA 5030 Soil MS

##### Blank (BHJ0111-BLK1)

Prepared: 10/02/24 Analyzed: 10/03/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0386		"	0.0400		96.6	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.3	50-150			

##### LCS (BHJ0111-BS1)

Prepared: 10/02/24 Analyzed: 10/03/24

Benzene	0.0963	0.0020	mg/kg	0.100		96.3	70-130			
Toluene	0.0971	0.0050	"	0.100		97.1	70-130			
Ethylbenzene	0.0966	0.0050	"	0.100		96.6	70-130			
m,p-Xylene	0.195	0.010	"	0.200		97.7	70-130			
o-Xylene	0.0976	0.0050	"	0.100		97.6	70-130			
1,2,4-Trimethylbenzene	0.0931	0.0050	"	0.100		93.1	70-130			
1,3,5-Trimethylbenzene	0.0948	0.0050	"	0.100		94.8	70-130			
Naphthalene	0.0865	0.0038	"	0.100		86.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0403		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.5	50-150			

##### Matrix Spike (BHJ0111-MS1)

Source: 2409364-03

Prepared: 10/02/24 Analyzed: 10/03/24

Benzene	0.0904	0.0020	mg/kg	0.100	ND	90.4	70-130			
Toluene	0.0867	0.0050	"	0.100	ND	86.7	70-130			
Ethylbenzene	0.0823	0.0050	"	0.100	ND	82.3	70-130			
m,p-Xylene	0.160	0.010	"	0.200	ND	80.0	70-130			
o-Xylene	0.0861	0.0050	"	0.100	ND	86.1	70-130			
1,2,4-Trimethylbenzene	0.0658	0.0050	"	0.100	ND	65.8	70-130			QM-05
1,3,5-Trimethylbenzene	0.105	0.0050	"	0.100	0.0209	84.0	70-130			
Naphthalene	0.0768	0.0038	"	0.100	ND	76.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0381		"	0.0400		95.2	50-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0473		"	0.0400		118	50-150			

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Wellington CO, 80549

Project: Noble - Prospect CO 26-0914  
Project Number: UWRWE-A3179-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/07/24 12:37

**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 BHJ0111 - EPA 5030 Soil MS**

**Matrix Spike Dup (BHJ0111-MSD1)**

**Source: 2409364-03**

Prepared: 10/02/24 Analyzed: 10/03/24

Benzene	0.0921	0.0020	mg/kg	0.100	ND	92.1	70-130	1.84	30	
Toluene	0.0873	0.0050	"	0.100	ND	87.3	70-130	0.655	30	
Ethylbenzene	0.0780	0.0050	"	0.100	ND	78.0	70-130	5.32	30	
m,p-Xylene	0.151	0.010	"	0.200	ND	75.5	70-130	5.83	30	
o-Xylene	0.0830	0.0050	"	0.100	ND	83.0	70-130	3.62	30	
1,2,4-Trimethylbenzene	0.0606	0.0050	"	0.100	ND	60.6	70-130	8.25	30	QM-05
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100	0.0209	81.6	70-130	2.37	30	
Naphthalene	0.0615	0.0038	"	0.100	ND	61.5	70-130	22.1	30	QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0399		"	0.0400		99.8	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0468		"	0.0400		117	50-150			

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Project: Noble - Prospect CO 26-0914  
Project Number: UWRWE-A3179-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/07/24 12:37

**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 BHJ0112 - EPA 3550A**

**Blank (BHJ0112-BLK1)**

Prepared: 10/02/24 Analyzed: 10/05/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	13.5		"	12.5	108		30-150			

**LCS (BHJ0112-BS1)**

Prepared: 10/02/24 Analyzed: 10/05/24

C10-C28 (DRO)	590	50	mg/kg	500	118		70-130			
Surrogate: o-Terphenyl	13.9		"	12.5	111		30-150			

**Matrix Spike (BHJ0112-MS1)**

Source: 2409364-03

Prepared: 10/02/24 Analyzed: 10/05/24

C10-C28 (DRO)	923	50	mg/kg	500	153	154	70-130			QM-01
Surrogate: o-Terphenyl	11.3		"	12.5	90.7		30-150			

**Matrix Spike Dup (BHJ0112-MSD1)**

Source: 2409364-03

Prepared: 10/02/24 Analyzed: 10/05/24

C10-C28 (DRO)	866	50	mg/kg	500	153	143	70-130	6.35	20	QM-01
Surrogate: o-Terphenyl	12.0		"	12.5	95.8		30-150			

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Project: Noble - Prospect CO 26-0914  
Project Number: UWRWE-A3179-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/07/24 12:37

## 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 BHJ0059 - EPA 5030 Soil MS

##### Blank (BHJ0059-BLK1)

Prepared: 10/02/24 Analyzed: 10/03/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0186		"	0.0333		55.9	40-150			
Surrogate: Fluoranthene-d10	0.0217		"	0.0333		65.0	40-150			

##### LCS (BHJ0059-BS1)

Prepared: 10/02/24 Analyzed: 10/03/24

Acenaphthene	0.0253	0.00500	mg/kg	0.0333		76.0	31-137			
Anthracene	0.0253	0.00500	"	0.0333		76.0	30-120			
Benzo (a) anthracene	0.0266	0.00500	"	0.0333		79.8	30-120			
Benzo (a) pyrene	0.0240	0.00500	"	0.0333		72.1	30-120			
Benzo (b) fluoranthene	0.0245	0.00500	"	0.0333		73.6	30-120			
Benzo (k) fluoranthene	0.0244	0.00500	"	0.0333		73.2	30-120			
Chrysene	0.0261	0.00500	"	0.0333		78.4	30-120			
Dibenz (a,h) anthracene	0.0227	0.00500	"	0.0333		68.1	30-120			
Fluoranthene	0.0246	0.00500	"	0.0333		73.7	30-120			
Fluorene	0.0259	0.00500	"	0.0333		77.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0143	0.00500	"	0.0333		43.0	30-120			
Pyrene	0.0252	0.00500	"	0.0333		75.7	35-142			
1-Methylnaphthalene	0.0213	0.00500	"	0.0333		64.0	35-142			
2-Methylnaphthalene	0.0217	0.00500	"	0.0333		65.1	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0219		"	0.0333		65.7	40-150			
Surrogate: Fluoranthene-d10	0.0241		"	0.0333		72.3	40-150			

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Project: Noble - Prospect CO 26-09I4  
Project Number: UWRWE-A3179-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/07/24 12:37

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

### Summit Scientific

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

#### Batch BHJ0059 - EPA 5030 Soil MS

##### Matrix Spike (BHJ0059-MS1)

Source: 2409475-01

Prepared: 10/02/24 Analyzed: 10/03/24

Acenaphthene	0.0201	0.00500	mg/kg	0.0333	ND	60.2	31-137		
Anthracene	0.0200	0.00500	"	0.0333	ND	59.9	30-120		
Benzo (a) anthracene	0.0201	0.00500	"	0.0333	ND	60.4	30-120		
Benzo (a) pyrene	0.0175	0.00500	"	0.0333	ND	52.6	30-120		
Benzo (b) fluoranthene	0.0170	0.00500	"	0.0333	ND	51.0	30-120		
Benzo (k) fluoranthene	0.0180	0.00500	"	0.0333	ND	53.9	30-120		
Chrysene	0.0194	0.00500	"	0.0333	ND	58.3	30-120		
Dibenz (a,h) anthracene	0.0165	0.00500	"	0.0333	ND	49.6	30-120		
Fluoranthene	0.0187	0.00500	"	0.0333	ND	56.2	30-120		
Fluorene	0.0209	0.00500	"	0.0333	ND	62.6	30-120		
Indeno (1,2,3-cd) pyrene	0.0162	0.00500	"	0.0333	ND	48.5	30-120		
Pyrene	0.0203	0.00500	"	0.0333	ND	60.8	35-142		
1-Methylnaphthalene	0.0182	0.00500	"	0.0333	ND	54.5	15-130		
2-Methylnaphthalene	0.0193	0.00500	"	0.0333	ND	58.0	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0190		"	0.0333		57.0	40-150		
Surrogate: Fluoranthene-d10	0.0185		"	0.0333		55.5	40-150		

##### Matrix Spike Dup (BHJ0059-MSD1)

Source: 2409475-01

Prepared: 10/02/24 Analyzed: 10/03/24

Acenaphthene	0.0200	0.00500	mg/kg	0.0333	ND	60.0	31-137	0.298	30
Anthracene	0.0190	0.00500	"	0.0333	ND	57.1	30-120	4.84	30
Benzo (a) anthracene	0.0202	0.00500	"	0.0333	ND	60.6	30-120	0.405	30
Benzo (a) pyrene	0.0178	0.00500	"	0.0333	ND	53.5	30-120	1.58	30
Benzo (b) fluoranthene	0.0177	0.00500	"	0.0333	ND	53.0	30-120	3.75	30
Benzo (k) fluoranthene	0.0177	0.00500	"	0.0333	ND	53.2	30-120	1.17	30
Chrysene	0.0196	0.00500	"	0.0333	ND	58.9	30-120	1.05	30
Dibenz (a,h) anthracene	0.0163	0.00500	"	0.0333	ND	48.8	30-120	1.60	30
Fluoranthene	0.0181	0.00500	"	0.0333	ND	54.4	30-120	3.29	30
Fluorene	0.0204	0.00500	"	0.0333	ND	61.1	30-120	2.38	30
Indeno (1,2,3-cd) pyrene	0.0217	0.00500	"	0.0333	ND	65.1	30-120	29.2	30
Pyrene	0.0208	0.00500	"	0.0333	ND	62.4	35-142	2.67	30
1-Methylnaphthalene	0.0167	0.00500	"	0.0333	ND	50.0	15-130	8.51	50
2-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.6	15-130	9.76	50
Surrogate: 2-Methylnaphthalene-d10	0.0173		"	0.0333		52.0	40-150		
Surrogate: Fluoranthene-d10	0.0180		"	0.0333		53.9	40-150		

Summit Scientific

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Wellington CO, 80549

Project: Noble - Prospect CO 26-09I4

Project Number: UWRWE-A3179-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/07/24 12:37

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