

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 09, 2025

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Work Order #2502463

Enclosed are the results of analyses for samples received by Summit Scientific on 02/26/25 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 "Natalie Tessier". The signature is written in a cursive, flowing style.

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121

Project Manager: Paul Henchan

Reported:
04/09/25 11:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Wwall02 7Ft	2502463-01	Soil	02/26/25 08:30	02/26/25 16:30
Ewall02 7Ft	2502463-02	Soil	02/26/25 08:40	02/26/25 16:30
Wwall03 7Ft	2502463-03	Soil	02/26/25 08:50	02/26/25 16:30
Wwall03 12Ft	2502463-04	Soil	02/26/25 09:00	02/26/25 16:30
Ewall03 7Ft	2502463-05	Soil	02/26/25 09:10	02/26/25 16:30
Ewall03 12Ft	2502463-06	Soil	02/26/25 09:20	02/26/25 16:30
Swall01 7Ft	2502463-07	Soil	02/26/25 09:30	02/26/25 16:30
Swall01 12Ft	2502463-08	Soil	02/26/25 09:40	02/26/25 16:30
Swall02 7Ft	2502463-09	Soil	02/26/25 09:50	02/26/25 16:30
Swall02 12Ft	2502463-10	Soil	02/26/25 10:00	02/26/25 16:30
SBase01 13Ft	2502463-11	Soil	02/26/25 10:10	02/26/25 16:30
SBase02 13Ft	2502463-12	Soil	02/26/25 10:20	02/26/25 16:30
Backfill	2502463-13	Soil	02/26/25 13:30	02/26/25 16:30

Summit Scientific

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Client: Fremont Environmental	Send Data To: Project Manager: <u>Paul Henahan</u>	Send Invoice To: Company: <u>CHEVRON (Noble)</u>
Address: 8305 6th St.	E-Mail: <u>Chevron Dist. List, PDC Dist List, Civitas Dist List, Fremont Dist List: paulH, mikeG,</u>	Project Name/Location:
City/State/Zip: Wellington, CO	<u>nickL, ethanB, jeffG, chrisL, stanG, aaronO, joshB, jordanS, tammyA (@fremontenv.com)</u>	AFE#: <u>UWRWE-14021-ENV</u>
Phone: <u>864-423-2068</u>	Project Name: <u>Coleman Volkers Lang THM-R64W-522 LOI</u>	PO/Billing Codes:
Sampler Name: <u>Jordan Suttles</u>	Project Number: <u>CO24-121</u>	Contact: <u>Dan Peterson</u>

Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
				HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915-1 (Soil)	Full Table 915-1 (GW)				
Wwall02 7Ft	2/26/25	8:30	2			X				X							
Ewall02 7Ft		8:40															
Wwall03 7Ft		8:50															
Wwall03 12Ft		9:00															
Ewall03 7Ft		9:10															
Ewall03 12Ft		9:20															
Swall01 7Ft		9:30															
Swall01 12Ft		9:40															
Swall02 7Ft		9:50															
Swall02 12Ft		10:00															
SBase01 13Ft		10:10															
SBase02 13Ft		10:20															
Backfill		13:30															

Relinquished by: <u>Jordan Suttles</u>	Date/Time: <u>2/26/25 10:00</u>	Received by: <u>S2 North Office</u>	Date/Time: <u>2/26/25 16:00</u>	TAT Business Days	Field DO	Notes: Dist. Report to parties circled in the email line(s) only.
Relinquished by: <u>S2</u>	Date/Time: <u>2/26/25 10:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/26/25 16:30</u>	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: <u>"</u>	Date/Time: <u>"</u>	Received by: <u>"</u>	Date/Time: <u>"</u>	1 Day	Field ORP	
Relinquished by: <u>"</u>	Date/Time: <u>"</u>	Received by: <u>"</u>	Date/Time: <u>"</u>	2 Days	Field pH	
Relinquished by: <u>"</u>	Date/Time: <u>"</u>	Received by: <u>"</u>	Date/Time: <u>"</u>	3 Days	Field Temp.	
Temperature Upon Receipt: <u>2.1</u>	Corrected Temperature: <u>8</u>	IR gun #: <u>1</u>	HNO3 lot #: <u>"</u>	Standard	Field Turb.	



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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Wwall02 7Ft
2502463-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/25 08:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIB1560	02/26/25	02/26/25	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: **02/26/25 08:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0418	105 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0391	97.7 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/25 08:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIB1562	02/26/25	02/27/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **02/26/25 08:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.47	51.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Wwall02 7Ft
2502463-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **02/26/25 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0542	03/10/25	03/21/25	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: **02/26/25 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0213	64.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0265	79.6 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/25 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1568	02/27/25	02/28/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/26/25 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Wwall02 7Ft
2502463-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.13	0.200	mg/kg dry	1	BIB1604	02/27/25	02/28/25	EPA 6020B
Barium	64.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	5.59	0.400	"	"	"	"	"	"
Lead	5.52	0.200	"	"	"	"	"	"
Nickel	5.64	0.400	"	"	"	"	"	"
Silver	0.0257	0.0200	"	"	"	"	"	"
Zinc	23.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/25 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1577	02/27/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/26/25 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.8	0.0500	mg/L dry	1	BIB1555	02/26/25	02/27/25	EPA 6020B	
Magnesium	5.15	0.0500	"	"	"	"	"	"	
Sodium	9.44	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/26/25 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.363	0.00100	units	1	BIB1665	02/28/25	02/28/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/25 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.3		%	1	BIB1571	02/27/25	02/28/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/25 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.203	0.0100	mmhos/cm	1	BIB1557	02/26/25	02/27/25	EPA 120.1	

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

Date Sampled: **02/26/25 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.49		pH Units	1	BIB1556	02/26/25	02/27/25	EPA 9045D	

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Reported:
04/09/25 11:36

Ewall02 7Ft
2502463-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/25 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIB1560	02/26/25	02/26/25	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: **02/26/25 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0446	112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/25 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIB1562	02/26/25	02/27/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/26/25 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	5.14	41.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Ewall02 7Ft
2502463-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/26/25 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0542	03/10/25	03/21/25	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: **02/26/25 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0206	61.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0264	79.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/25 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1568	02/27/25	02/28/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/26/25 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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04/09/25 11:36

Ewall02 7Ft
2502463-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.61	0.200	mg/kg dry	1	BIB1604	02/27/25	02/28/25	EPA 6020B
Barium	91.8	0.400	"	"	"	"	"	"
Cadmium	0.263	0.200	"	"	"	"	"	"
Copper	9.43	0.400	"	"	"	"	"	"
Lead	8.33	0.200	"	"	"	"	"	"
Nickel	8.74	0.400	"	"	"	"	"	"
Silver	0.0416	0.0200	"	"	"	"	"	"
Zinc	35.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/25 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1577	02/27/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/26/25 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	137	0.0500	mg/L dry	1	BIB1555	02/26/25	02/27/25	EPA 6020B	
Magnesium	20.2	0.0500	"	"	"	"	"	"	
Sodium	35.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/26/25 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.751	0.00100	units	1	BIB1665	02/28/25	02/28/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/25 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Ewall02 7Ft
 2502463-02 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.5	%	1	BIB1571	02/27/25	02/28/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/25 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.248	0.0100	mmhos/cm	1	BIB1557	02/26/25	02/27/25	EPA 120.1	

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

Date Sampled: **02/26/25 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.60		pH Units	1	BIB1556	02/26/25	02/27/25	EPA 9045D	

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Reported:
04/09/25 11:36

Wwall03 7Ft
2502463-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIB1560	02/26/25	02/26/25	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: **02/26/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0427	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIB1562	02/26/25	02/27/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/26/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	5.60	44.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Wwall03 7Ft
2502463-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/26/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0542	03/10/25	03/21/25	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: **02/26/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0222	66.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0230	68.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1568	02/27/25	02/28/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/26/25 08:50**

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 - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Wwall03 7Ft
2502463-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.84	0.200	mg/kg dry	1	BIB1604	02/27/25	02/28/25	EPA 6020B
Barium	83.2	0.400	"	"	"	"	"	"
Cadmium	0.342	0.200	"	"	"	"	"	"
Copper	13.8	0.400	"	"	"	"	"	"
Lead	10.4	0.200	"	"	"	"	"	"
Nickel	10.9	0.400	"	"	"	"	"	"
Silver	0.0549	0.0200	"	"	"	"	"	"
Zinc	50.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1577	02/27/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/26/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	336	0.0500	mg/L dry	1	BIB1555	02/26/25	02/27/25	EPA 6020B	
Magnesium	70.3	0.0500	"	"	"	"	"	"	
Sodium	7.55	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/26/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0978	0.00100	units	1	BIB1665	02/28/25	02/28/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
 Project Manager: Paul Henchan

Reported:
 04/09/25 11:36

**Wwall03 7Ft
 2502463-03 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.3	%	1	BIB1571	02/27/25	02/28/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0851	0.0100	mmhos/cm	1	BIB1557	02/26/25	02/27/25	EPA 120.1	

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

Date Sampled: **02/26/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.81		pH Units	1	BIB1556	02/26/25	02/27/25	EPA 9045D	

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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Wwall03 12Ft
2502463-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIB1560	02/26/25	02/27/25	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: **02/26/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0474	119 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIB1562	02/26/25	02/27/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/26/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.58	60.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Wwall03 12Ft
2502463-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/26/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0542	03/10/25	03/21/25	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: **02/26/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0259	77.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0291	87.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1568	02/27/25	02/28/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/26/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Wwall03 12Ft
2502463-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.76	0.200	mg/kg dry	1	BIB1604	02/27/25	02/28/25	EPA 6020B
Barium	51.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	5.05	0.400	"	"	"	"	"	"
Lead	4.79	0.200	"	"	"	"	"	"
Nickel	4.42	0.400	"	"	"	"	"	"
Silver	0.0263	0.0200	"	"	"	"	"	"
Zinc	20.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1577	02/27/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/26/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	65.6	0.0500	mg/L dry	1	BIB1555	02/26/25	02/27/25	EPA 6020B	
Magnesium	15.4	0.0500	"	"	"	"	"	"	
Sodium	77.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/26/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.23	0.00100	units	1	BIB1665	02/28/25	02/28/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 Wellington CO, 80549

Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
 Project Manager: Paul Henchan

Reported:
 04/09/25 11:36

Wwall03 12Ft
2502463-04 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.2		%	1	BIB1571	02/27/25	02/28/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.848	0.0100	mmhos/cm	1	BIB1557	02/26/25	02/27/25	EPA 120.1	

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

Date Sampled: **02/26/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.60		pH Units	1	BIB1556	02/26/25	02/27/25	EPA 9045D	

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Reported:
04/09/25 11:36

Ewall03 7Ft
2502463-05 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIB1560	02/26/25	02/27/25	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: **02/26/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0443	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0396	99.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIB1562	02/26/25	02/27/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/26/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	5.11	40.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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04/09/25 11:36

Ewall03 7Ft
2502463-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/26/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0542	03/10/25	03/21/25	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: **02/26/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0185	55.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0246	73.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1568	02/27/25	02/28/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/26/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Ewall03 7Ft
2502463-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.94	0.200	mg/kg dry	1	BIB1604	02/27/25	02/28/25	EPA 6020B	
Barium	124	0.400	"	"	"	"	"	"	
Cadmium	0.408	0.200	"	"	"	"	"	"	
Copper	14.6	0.400	"	"	"	"	"	"	
Lead	11.8	0.200	"	"	"	"	"	"	
Nickel	12.3	0.400	"	"	"	"	"	"	
Silver	0.0676	0.0200	"	"	"	"	"	"	
Zinc	51.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1577	02/27/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/26/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.0	0.0500	mg/L dry	1	BIB1555	02/26/25	02/27/25	EPA 6020B	
Magnesium	11.1	0.0500	"	"	"	"	"	"	
Sodium	82.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/26/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.86	0.00100	units	1	BIB1665	02/28/25	02/28/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/25 09:10**

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

Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
 Project Manager: Paul Henchan

Reported:
 04/09/25 11:36

**Ewall03 7Ft
 2502463-05 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	75.2	%	1	BIB1571	02/27/25	02/28/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.612	0.0100	mmhos/cm	1	BIB1557	02/26/25	02/27/25	EPA 120.1	

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

Date Sampled: **02/26/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.99		pH Units	1	BIB1556	02/26/25	02/27/25	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Ewall03 12Ft
2502463-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/25 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIB1560	02/26/25	02/27/25	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: **02/26/25 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0437	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/25 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIB1562	02/26/25	02/27/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/26/25 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	5.30	42.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Reported:
04/09/25 11:36

Ewall03 12Ft
2502463-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/26/25 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0542	03/10/25	03/21/25	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: **02/26/25 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0186	55.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0186	55.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/25 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1568	02/27/25	02/28/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/26/25 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Ewall03 12Ft
2502463-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.71	0.200	mg/kg dry	1	BIB1604	02/27/25	02/28/25	EPA 6020B
Barium	93.7	0.400	"	"	"	"	"	"
Cadmium	0.405	0.200	"	"	"	"	"	"
Copper	20.7	0.400	"	"	"	"	"	"
Lead	15.3	0.200	"	"	"	"	"	"
Nickel	14.9	0.400	"	"	"	"	"	"
Silver	0.0785	0.0200	"	"	"	"	"	"
Zinc	57.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/25 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1577	02/27/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/26/25 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.2	0.0500	mg/L dry	1	BIB1555	02/26/25	02/27/25	EPA 6020B	
Magnesium	7.86	0.0500	"	"	"	"	"	"	
Sodium	53.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/26/25 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.98	0.00100	units	1	BIB1665	02/28/25	02/28/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/25 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
 04/09/25 11:36

Ewall03 12Ft
2502463-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	74.7	%	1	BIB1571	02/27/25	02/28/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/25 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.342	0.0100	mmhos/cm	1	BIB1557	02/26/25	02/27/25	EPA 120.1	

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

Date Sampled: **02/26/25 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.65		pH Units	1	BIB1556	02/26/25	02/27/25	EPA 9045D	

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Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Swall01 7Ft
2502463-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/25 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIB1560	02/26/25	02/27/25	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: **02/26/25 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0460	115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/25 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIB1562	02/26/25	02/27/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/26/25 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	5.75	46.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Reported:
04/09/25 11:36

Swall01 7Ft
2502463-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/26/25 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0542	03/10/25	03/21/25	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: **02/26/25 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0151	45.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0179	53.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/25 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1568	02/27/25	02/28/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/26/25 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
04/09/25 11:36

Swall01 7Ft
2502463-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.96	0.200	mg/kg dry	1	BIB1604	02/27/25	02/28/25	EPA 6020B
Barium	73.2	0.400	"	"	"	"	"	"
Cadmium	0.297	0.200	"	"	"	"	"	"
Copper	10.6	0.400	"	"	"	"	"	"
Lead	8.51	0.200	"	"	"	"	"	"
Nickel	8.36	0.400	"	"	"	"	"	"
Silver	0.0467	0.0200	"	"	"	"	"	"
Zinc	40.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/25 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1577	02/27/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/26/25 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	120	0.0500	mg/L dry	1	BIB1555	02/26/25	02/27/25	EPA 6020B	
Magnesium	24.8	0.0500	"	"	"	"	"	"	
Sodium	29.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/26/25 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.638	0.00100	units	1	BIB1665	02/28/25	02/28/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/25 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A4021-ENV CO24-121
 Project Manager: Paul Henchan

Reported:
 04/09/25 11:36

Swall01 7Ft
2502463-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	84.3	%	1	BIB1571	02/27/25	02/28/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/25 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.192	0.0100	mmhos/cm	1	BIB1557	02/26/25	02/27/25	EPA 120.1	

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

Date Sampled: **02/26/25 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BIB1556	02/26/25	02/27/25	EPA 9045D	

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Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Swall01 12Ft
2502463-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/25 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIB1560	02/26/25	02/27/25	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: **02/26/25 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0460	115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/25 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIB1562	02/26/25	02/27/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/26/25 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	5.42	43.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Manager: Paul Henchan

Reported:
04/09/25 11:36

**Swall01 12Ft
2502463-08 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/26/25 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0542	03/10/25	03/21/25	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: **02/26/25 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0190	57.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0219	65.6 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/25 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1568	02/27/25	02/28/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/26/25 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Swall01 12Ft
2502463-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.54	0.200	mg/kg dry	1	BIB1604	02/27/25	02/28/25	EPA 6020B
Barium	68.7	0.400	"	"	"	"	"	"
Cadmium	0.251	0.200	"	"	"	"	"	"
Copper	8.52	0.400	"	"	"	"	"	"
Lead	6.35	0.200	"	"	"	"	"	"
Nickel	6.37	0.400	"	"	"	"	"	"
Silver	0.0335	0.0200	"	"	"	"	"	"
Zinc	31.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/25 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1577	02/27/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/26/25 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.5	0.0500	mg/L dry	1	BIB1555	02/26/25	02/27/25	EPA 6020B	
Magnesium	7.50	0.0500	"	"	"	"	"	"	
Sodium	35.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/26/25 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.44	0.00100	units	1	BIB1665	02/28/25	02/28/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/25 09:40**

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 - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
 Project Manager: Paul Henchan

Reported:
 04/09/25 11:36

**Swall01 12Ft
 2502463-08 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.8	%	1	BIB1571	02/27/25	02/28/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/25 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.410	0.0100	mmhos/cm	1	BIB1557	02/26/25	02/27/25	EPA 120.1	

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

Date Sampled: **02/26/25 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.20		pH Units	1	BIB1556	02/26/25	02/27/25	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Swall02 7Ft
2502463-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/25 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIB1560	02/26/25	02/27/25	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: **02/26/25 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0457	114 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/25 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIB1562	02/26/25	02/27/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **02/26/25 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	5.71	45.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Swall02 7Ft
2502463-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/26/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0542	03/10/25	03/21/25	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: **02/26/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0137	41.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0177	53.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1568	02/27/25	02/28/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/26/25 09:50**

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

Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Swall02 7Ft
2502463-09 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.46	0.200	mg/kg dry	1	BIB1604	02/27/25	02/28/25	EPA 6020B
Barium	62.6	0.400	"	"	"	"	"	"
Cadmium	0.233	0.200	"	"	"	"	"	"
Copper	8.10	0.400	"	"	"	"	"	"
Lead	7.25	0.200	"	"	"	"	"	"
Nickel	7.39	0.400	"	"	"	"	"	"
Silver	0.0449	0.0200	"	"	"	"	"	"
Zinc	32.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1577	02/27/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/26/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.9	0.0500	mg/L dry	1	BIB1555	02/26/25	02/27/25	EPA 6020B	
Magnesium	8.56	0.0500	"	"	"	"	"	"	
Sodium	17.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/26/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.629	0.00100	units	1	BIB1665	02/28/25	02/28/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Swall02 7Ft
2502463-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	84.2	%	1	BIB1571	02/27/25	02/28/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.188	0.0100	mmhos/cm	1	BIB1557	02/26/25	02/27/25	EPA 120.1	

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

Date Sampled: **02/26/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BIB1556	02/26/25	02/27/25	EPA 9045D	

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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Swall02 12Ft
2502463-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIB1560	02/26/25	02/27/25	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: **02/26/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0443	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIB1562	02/26/25	02/27/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/26/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.01	72.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

**Swall02 12Ft
2502463-10 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/26/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0542	03/10/25	03/21/25	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: **02/26/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0160	47.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0203	60.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1568	02/27/25	02/28/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/26/25 10:00**

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

Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Swall02 12Ft
2502463-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.51	0.200	mg/kg dry	1	BIB1604	02/27/25	02/28/25	EPA 6020B	
Barium	37.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.35	0.400	"	"	"	"	"	"	
Lead	4.15	0.200	"	"	"	"	"	"	
Nickel	3.38	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	17.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1577	02/27/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/26/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	67.0	0.0500	mg/L dry	1	BIB1555	02/26/25	02/27/25	EPA 6020B	
Magnesium	15.7	0.0500	"	"	"	"	"	"	
Sodium	79.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/26/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.27	0.00100	units	1	BIB1665	02/28/25	02/28/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 Project Manager: Paul Henchan

Reported:
 04/09/25 11:36

**Swall02 12Ft
 2502463-10 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.5		%	1	BIB1571	02/27/25	02/28/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.816	0.0100	mmhos/cm	1	BIB1557	02/26/25	02/27/25	EPA 120.1	

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

Date Sampled: **02/26/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.39		pH Units	1	BIB1556	02/26/25	02/27/25	EPA 9045D	

Summit Scientific

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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

SBase01 13Ft
2502463-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIB1560	02/26/25	02/27/25	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	3.5	0.50	"	"	"	"	"	"	

Date Sampled: **02/26/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0428	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0417	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIB1562	02/26/25	02/27/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/26/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.37	51.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

O-02

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Project Manager: Paul Henchan

Reported:
04/09/25 11:36

SBase01 13Ft
2502463-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

O-02

Date Sampled: **02/26/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0542	03/10/25	03/21/25	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	0.0265	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.00745	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.00700	0.00500	"	"	"	"	"	"	

Date Sampled: **02/26/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.00802	24.1 %	40-140		"	"	"	"	S-04
Surrogate: Fluoranthene-d10	0.0212	63.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1568	02/27/25	02/28/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/26/25 10:10**

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 - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

SBase01 13Ft
2502463-11 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.54	0.200	mg/kg dry	1	BIB1604	02/27/25	02/28/25	EPA 6020B
Barium	34.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.15	0.400	"	"	"	"	"	"
Lead	3.86	0.200	"	"	"	"	"	"
Nickel	3.54	0.400	"	"	"	"	"	"
Silver	0.0212	0.0200	"	"	"	"	"	"
Zinc	15.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1577	02/27/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/26/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	75.2	0.0500	mg/L dry	1	BIB1555	02/26/25	02/27/25	EPA 6020B	
Magnesium	17.7	0.0500	"	"	"	"	"	"	
Sodium	74.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/26/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.01	0.00100	units	1	BIB1665	02/28/25	02/28/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: UWRWE-A4021-ENV CO24-121
 Project Manager: Paul Henchan

Reported:
 04/09/25 11:36

SBase01 13Ft
2502463-11 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.4		%	1	BIB1571	02/27/25	02/28/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.835	0.0100	mmhos/cm	1	BIB1557	02/26/25	02/27/25	EPA 120.1	

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

Date Sampled: **02/26/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.85		pH Units	1	BIB1556	02/26/25	02/27/25	EPA 9045D	

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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

SBase02 13Ft
2502463-12 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIB1560	02/26/25	02/27/25	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: **02/26/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0434	108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0396	99.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIB1562	02/26/25	02/27/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/26/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.22	57.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

SBase02 13Ft
2502463-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/26/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0542	03/10/25	04/03/25	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: **02/26/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0238	71.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0243	72.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1568	02/27/25	02/28/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/26/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

SBase02 13Ft
2502463-12 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.404	0.200	mg/kg dry	1	BIB1604	02/27/25	02/28/25	EPA 6020B	
Barium	5.43	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	0.507	0.400	"	"	"	"	"	"	
Lead	0.915	0.200	"	"	"	"	"	"	
Nickel	0.755	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	3.94	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1577	02/27/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/26/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	53.3	0.0500	mg/L dry	1	BIB1555	02/26/25	02/27/25	EPA 6020B	
Magnesium	11.9	0.0500	"	"	"	"	"	"	
Sodium	68.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/26/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.20	0.00100	units	1	BIB1665	02/28/25	02/28/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
 Project Manager: Paul Henchan

Reported:
 04/09/25 11:36

SBase02 13Ft
2502463-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.7		%	1	BIB1571	02/27/25	02/28/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.752	0.0100	mmhos/cm	1	BIB1557	02/26/25	02/27/25	EPA 120.1	

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

Date Sampled: **02/26/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BIB1556	02/26/25	02/27/25	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Backfill
2502463-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIB1560	02/26/25	02/27/25	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: **02/26/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0450	112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0396	99.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIB1562	02/26/25	02/27/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/26/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.68	53.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Backfill
2502463-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/26/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0542	03/10/25	03/21/25	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: **02/26/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0172	51.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0271	81.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1569	02/27/25	02/28/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/26/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Backfill
2502463-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.59	0.200	mg/kg dry	1	BIB1604	02/27/25	02/28/25	EPA 6020B
Barium	69.4	0.400	"	"	"	"	"	"
Cadmium	0.398	0.200	"	"	"	"	"	"
Copper	13.0	0.400	"	"	"	"	"	"
Lead	10.8	0.200	"	"	"	"	"	"
Nickel	4.87	0.400	"	"	"	"	"	"
Silver	0.890	0.0200	"	"	"	"	"	"
Zinc	34.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1577	02/27/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/26/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.0	0.0500	mg/L dry	1	BIB1555	02/26/25	02/27/25	EPA 6020B	
Magnesium	13.1	0.0500	"	"	"	"	"	"	
Sodium	0.901	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/26/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0324	0.00100	units	1	BIB1665	02/28/25	02/28/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
 04/09/25 11:36

Backfill
2502463-13 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	93.3	%	1	BIB1571	02/27/25	02/28/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.320	0.0100	mmhos/cm	1	BIB1557	02/26/25	02/27/25	EPA 120.1	

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

Date Sampled: **02/26/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.52		pH Units	1	BIB1556	02/26/25	02/27/25	EPA 9045D	

Summit Scientific

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Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIB1560 - EPA 5030 Soil MS

Blank (BIB1560-BLK1)

Prepared: 02/26/25 Analyzed: 02/27/25

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0443</i>		<i>"</i>	<i>0.0400</i>		<i>111</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0397</i>		<i>"</i>	<i>0.0400</i>		<i>99.2</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0407</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>				

LCS (BIB1560-BS1)

Prepared: 02/26/25 Analyzed: 02/27/25

Benzene	0.0984	0.0020	mg/kg	0.100		98.4	70-130				
Toluene	0.0923	0.0050	"	0.100		92.3	70-130				
Ethylbenzene	0.0923	0.0050	"	0.100		92.3	70-130				
m,p-Xylene	0.188	0.010	"	0.200		93.8	70-130				
o-Xylene	0.0945	0.0050	"	0.100		94.5	70-130				
1,2,4-Trimethylbenzene	0.0936	0.0050	"	0.100		93.6	70-130				
1,3,5-Trimethylbenzene	0.0920	0.0050	"	0.100		92.0	70-130				
Naphthalene	0.0817	0.0038	"	0.100		81.7	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0374</i>		<i>"</i>	<i>0.0400</i>		<i>93.5</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0391</i>		<i>"</i>	<i>0.0400</i>		<i>97.8</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>				

Matrix Spike (BIB1560-MS1)

Source: 2502463-01

Prepared: 02/26/25 Analyzed: 02/27/25

Benzene	0.0918	0.0020	mg/kg	0.100	ND	91.8	70-130				
Toluene	0.0859	0.0050	"	0.100	ND	85.9	70-130				
Ethylbenzene	0.0913	0.0050	"	0.100	ND	91.3	70-130				
m,p-Xylene	0.184	0.010	"	0.200	ND	92.2	70-130				
o-Xylene	0.0910	0.0050	"	0.100	ND	91.0	70-130				
1,2,4-Trimethylbenzene	0.0894	0.0050	"	0.100	ND	89.4	70-130				
1,3,5-Trimethylbenzene	0.0880	0.0050	"	0.100	ND	88.0	70-130				
Naphthalene	0.0770	0.0038	"	0.100	ND	77.0	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0340</i>		<i>"</i>	<i>0.0400</i>		<i>85.0</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0379</i>		<i>"</i>	<i>0.0400</i>		<i>94.6</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0385</i>		<i>"</i>	<i>0.0400</i>		<i>96.2</i>	<i>50-150</i>				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
 Project Manager: Paul Henchan

Reported:
 04/09/25 11:36

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 BIB1560 - EPA 5030 Soil MS

Matrix Spike Dup (BIB1560-MSD1)	Source: 2502463-01			Prepared: 02/26/25 Analyzed: 02/27/25						
Benzene	0.0963	0.0020	mg/kg	0.100	ND	96.3	70-130	4.82	30	
Toluene	0.0894	0.0050	"	0.100	ND	89.4	70-130	3.94	30	
Ethylbenzene	0.0921	0.0050	"	0.100	ND	92.1	70-130	0.916	30	
m,p-Xylene	0.187	0.010	"	0.200	ND	93.3	70-130	1.23	30	
o-Xylene	0.0922	0.0050	"	0.100	ND	92.2	70-130	1.31	30	
1,2,4-Trimethylbenzene	0.0890	0.0050	"	0.100	ND	89.0	70-130	0.471	30	
1,3,5-Trimethylbenzene	0.0891	0.0050	"	0.100	ND	89.1	70-130	1.25	30	
Naphthalene	0.0769	0.0038	"	0.100	ND	76.9	70-130	0.117	30	
Surrogate: 1,2-Dichloroethane-d4	0.0359		"	0.0400		89.8	50-150			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.4	50-150			

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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
 Project Manager: Paul Henchan

Reported:
 04/09/25 11:36

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BIB1562 - EPA 3550A

Blank (BIB1562-BLK1)

Prepared: 02/26/25 Analyzed: 02/27/25

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	9.42		"	12.5		75.4	30-150			

LCS (BIB1562-BS1)

Prepared: 02/26/25 Analyzed: 02/27/25

C10-C28 (DRO)	488	50	mg/kg	500		97.5	70-130			
Surrogate: o-Terphenyl	9.66		"	12.5		77.3	30-150			

Matrix Spike (BIB1562-MS1)

Source: 2502463-01

Prepared: 02/26/25 Analyzed: 02/27/25

C10-C28 (DRO)	456	50	mg/kg	500	25.2	86.2	70-130			
Surrogate: o-Terphenyl	8.74		"	12.5		70.0	30-150			

Matrix Spike Dup (BIB1562-MSD1)

Source: 2502463-01

Prepared: 02/26/25 Analyzed: 02/27/25

C10-C28 (DRO)	494	50	mg/kg	500	25.2	93.8	70-130	7.96	20	
Surrogate: o-Terphenyl	9.55		"	12.5		76.4	30-150			

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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

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 BIC0542 - EPA 5030 Soil MS

Blank (BIC0542-BLK1)

Prepared: 03/10/25 Analyzed: 03/21/25

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	40-140			
Surrogate: Fluoranthene-d10	0.0230		"	0.0333		69.1	40-140			

LCS (BIC0542-BS1)

Prepared: 03/10/25 Analyzed: 03/21/25

Acenaphthene	0.0259	0.00500	mg/kg	0.0333		77.7	40-140			
Anthracene	0.0262	0.00500	"	0.0333		78.5	40-140			
Benzo (a) anthracene	0.0279	0.00500	"	0.0333		83.7	40-140			
Benzo (a) pyrene	0.0288	0.00500	"	0.0333		86.5	40-140			
Benzo (b) fluoranthene	0.0291	0.00500	"	0.0333		87.3	40-140			
Benzo (k) fluoranthene	0.0270	0.00500	"	0.0333		81.1	40-140			
Chrysene	0.0255	0.00500	"	0.0333		76.4	40-140			
Dibenz (a,h) anthracene	0.0230	0.00500	"	0.0333		68.9	40-140			
Fluoranthene	0.0266	0.00500	"	0.0333		79.8	40-140			
Fluorene	0.0265	0.00500	"	0.0333		79.5	40-140			
Indeno (1,2,3-cd) pyrene	0.0250	0.00500	"	0.0333		74.9	40-140			
Pyrene	0.0258	0.00500	"	0.0333		77.5	40-140			
1-Methylnaphthalene	0.0231	0.00500	"	0.0333		69.4	40-140			
2-Methylnaphthalene	0.0242	0.00500	"	0.0333		72.6	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0251		"	0.0333		75.4	40-140			
Surrogate: Fluoranthene-d10	0.0276		"	0.0333		82.9	40-140			

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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

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 BIC0542 - EPA 5030 Soil MS

Matrix Spike (BIC0542-MS1)	Source: 2502463-01			Prepared: 03/10/25 Analyzed: 03/21/25					
Acenaphthene	0.0175	0.00500	mg/kg	0.0333	ND	52.4	40-140		
Anthracene	0.0174	0.00500	"	0.0333	ND	52.2	40-140		
Benzo (a) anthracene	0.0185	0.00500	"	0.0333	ND	55.5	40-140		
Benzo (a) pyrene	0.0176	0.00500	"	0.0333	ND	52.9	40-140		
Benzo (b) fluoranthene	0.0183	0.00500	"	0.0333	ND	55.0	40-140		
Benzo (k) fluoranthene	0.0173	0.00500	"	0.0333	ND	51.9	40-140		
Chrysene	0.0169	0.00500	"	0.0333	ND	50.8	40-140		
Dibenz (a,h) anthracene	0.0164	0.00500	"	0.0333	ND	49.3	40-140		
Fluoranthene	0.0176	0.00500	"	0.0333	ND	52.7	40-140		
Fluorene	0.0183	0.00500	"	0.0333	ND	55.0	40-140		
Indeno (1,2,3-cd) pyrene	0.0144	0.00500	"	0.0333	ND	43.2	40-140		
Pyrene	0.0168	0.00500	"	0.0333	ND	50.5	40-140		
1-Methylnaphthalene	0.0154	0.00500	"	0.0333	ND	46.3	40-140		
2-Methylnaphthalene	0.0153	0.00500	"	0.0333	ND	45.9	40-140		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0163</i>		<i>"</i>	<i>0.0333</i>		<i>48.8</i>	<i>40-140</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0181</i>		<i>"</i>	<i>0.0333</i>		<i>54.4</i>	<i>40-140</i>		

Matrix Spike Dup (BIC0542-MSD1)	Source: 2502463-01			Prepared: 03/10/25 Analyzed: 03/21/25					
Acenaphthene	0.0215	0.00500	mg/kg	0.0333	ND	64.5	40-140	20.8	30
Anthracene	0.0221	0.00500	"	0.0333	ND	66.3	40-140	23.8	30
Benzo (a) anthracene	0.0234	0.00500	"	0.0333	ND	70.1	40-140	23.3	30
Benzo (a) pyrene	0.0236	0.00500	"	0.0333	ND	70.9	40-140	29.1	30
Benzo (b) fluoranthene	0.0233	0.00500	"	0.0333	ND	69.8	40-140	23.8	30
Benzo (k) fluoranthene	0.0219	0.00500	"	0.0333	ND	65.6	40-140	23.2	30
Chrysene	0.0210	0.00500	"	0.0333	ND	63.0	40-140	21.4	30
Dibenz (a,h) anthracene	0.0199	0.00500	"	0.0333	ND	59.7	40-140	19.1	30
Fluoranthene	0.0223	0.00500	"	0.0333	ND	66.8	40-140	23.5	30
Fluorene	0.0231	0.00500	"	0.0333	ND	69.2	40-140	22.9	30
Indeno (1,2,3-cd) pyrene	0.0192	0.00500	"	0.0333	ND	57.6	40-140	28.7	30
Pyrene	0.0218	0.00500	"	0.0333	ND	65.5	40-140	26.0	30
1-Methylnaphthalene	0.0165	0.00500	"	0.0333	ND	49.4	40-140	6.61	30
2-Methylnaphthalene	0.0165	0.00500	"	0.0333	ND	49.5	40-140	7.55	30
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0172</i>		<i>"</i>	<i>0.0333</i>		<i>51.5</i>	<i>40-140</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0231</i>		<i>"</i>	<i>0.0333</i>		<i>69.2</i>	<i>40-140</i>		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

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

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

Batch BIB1568 - EPA 3050B

Blank (BIB1568-BLK1)			Prepared: 02/27/25 Analyzed: 02/28/25								
Boron	ND	2.00	mg/L								
LCS (BIB1568-BS1)			Prepared: 02/27/25 Analyzed: 02/28/25								
Boron	4.74	2.00	mg/L	5.00		94.8	80-120				
Duplicate (BIB1568-DUP1)			Source: 2502463-01			Prepared: 02/27/25 Analyzed: 02/28/25					
Boron	0.0517	2.00	mg/L		0.0950			59.0	20		QR-01
Matrix Spike (BIB1568-MS1)			Source: 2502463-01			Prepared: 02/27/25 Analyzed: 02/28/25					
Boron	4.69	2.00	mg/L	4.98	0.0950	92.2	75-125				
Matrix Spike Dup (BIB1568-MSD1)			Source: 2502463-01			Prepared: 02/27/25 Analyzed: 02/28/25					
Boron	4.78	2.00	mg/L	4.98	0.0950	94.2	75-125	2.04	25		

Batch BIB1569 - EPA 3050B

Blank (BIB1569-BLK1)			Prepared: 02/27/25 Analyzed: 02/28/25								
Boron	ND	2.00	mg/L								
LCS (BIB1569-BS1)			Prepared: 02/27/25 Analyzed: 02/28/25								
Boron	4.83	2.00	mg/L	5.00		96.7	80-120				
Duplicate (BIB1569-DUP1)			Source: 2502463-13			Prepared: 02/27/25 Analyzed: 02/28/25					
Boron	0.208	2.00	mg/L		0.243			15.3	20		
Matrix Spike (BIB1569-MS1)			Source: 2502463-13			Prepared: 02/27/25 Analyzed: 02/28/25					
Boron	4.99	2.00	mg/L	4.99	0.243	95.2	75-125				

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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
 Project Manager: Paul Henchan

Reported:
 04/09/25 11:36

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

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

Batch BIB1569 - EPA 3050B

Matrix Spike Dup (BIB1569-MSD1)

Source: 2502463-13

Prepared: 02/27/25 Analyzed: 02/28/25

Boron	5.22	2.00	mg/L	4.99	0.243	99.7	75-125	4.47	25	
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIB1604 - EPA 3050B

Blank (BIB1604-BLK1)

Prepared: 02/27/25 Analyzed: 02/28/25

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 (BIB1604-BS1)

Prepared: 02/27/25 Analyzed: 02/28/25

Arsenic	36.2	0.200	mg/kg wet	38.8	93.4	80-120
Barium	39.9	0.400	"	38.8	103	80-120
Cadmium	1.91	0.200	"	1.94	98.7	80-120
Copper	37.3	0.400	"	38.8	96.3	80-120
Lead	19.4	0.200	"	19.4	100	80-120
Nickel	36.6	0.400	"	38.8	94.5	80-120
Silver	1.92	0.0200	"	1.94	99.2	80-120
Zinc	37.2	0.400	"	38.8	95.9	80-120
Selenium	3.80	0.260	"	3.88	98.1	80-120

Duplicate (BIB1604-DUP1)

Source: 2502463-01

Prepared: 02/27/25 Analyzed: 02/28/25

Arsenic	2.01	0.200	mg/kg dry	2.13	5.83	20
Barium	74.4	0.400	"	64.1	14.8	20
Cadmium	0.177	0.200	"	0.184	3.96	20
Copper	5.18	0.400	"	5.59	7.57	20
Lead	5.37	0.200	"	5.52	2.80	20
Nickel	5.08	0.400	"	5.64	10.3	20
Silver	0.0253	0.0200	"	0.0257	1.64	20
Zinc	21.1	0.400	"	23.1	9.23	20
Selenium	ND	0.260	"	ND		20

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Wellington CO, 80549

Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

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 BIB1604 - EPA 3050B

Matrix Spike (BIB1604-MS1)

Source: 2502463-01

Prepared: 02/27/25 Analyzed: 02/28/25

Arsenic	43.3	0.200	mg/kg dry	45.7	2.13	90.3	75-125			
Barium	111	0.400	"	45.7	64.1	103	75-125			
Cadmium	2.57	0.200	"	2.28	0.184	105	75-125			
Copper	46.9	0.400	"	45.7	5.59	90.5	75-125			
Lead	29.2	0.200	"	22.8	5.52	104	75-125			
Nickel	47.0	0.400	"	45.7	5.64	90.6	75-125			
Silver	2.35	0.0200	"	2.28	0.0257	102	75-125			
Zinc	61.7	0.400	"	45.7	23.1	84.5	75-125			
Selenium	3.65	0.260	"	4.57	ND	79.9	75-125			

Matrix Spike Dup (BIB1604-MSD1)

Source: 2502463-01

Prepared: 02/27/25 Analyzed: 02/28/25

Arsenic	45.3	0.200	mg/kg dry	46.0	2.13	93.9	75-125	4.48	25	
Barium	124	0.400	"	46.0	64.1	129	75-125	10.4	25	QM-05
Cadmium	2.40	0.200	"	2.30	0.184	96.5	75-125	6.69	25	
Copper	50.2	0.400	"	46.0	5.59	96.9	75-125	6.78	25	
Lead	28.0	0.200	"	23.0	5.52	97.7	75-125	4.07	25	
Nickel	50.0	0.400	"	46.0	5.64	96.5	75-125	6.24	25	
Silver	2.19	0.0200	"	2.30	0.0257	94.2	75-125	7.06	25	
Zinc	71.8	0.400	"	46.0	23.1	106	75-125	15.2	25	
Selenium	3.89	0.260	"	4.60	ND	84.6	75-125	6.56	25	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
 Project Manager: Paul Henchan

Reported:
 04/09/25 11:36

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BIB1577 - 3060A Mod

Blank (BIB1577-BLK1)

Prepared & Analyzed: 02/27/25

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BIB1577-BS1)

Prepared & Analyzed: 02/27/25

Chromium, Hexavalent 24.4 0.30 mg/kg wet 25.5 95.6 80-120

Duplicate (BIB1577-DUP1)

Source: 2502463-01

Prepared & Analyzed: 02/27/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BIB1577-MS1)

Source: 2502463-01

Prepared & Analyzed: 02/27/25

Chromium, Hexavalent 27.9 0.30 mg/kg dry 27.7 ND 101 75-125

Matrix Spike Dup (BIB1577-MSD1)

Source: 2502463-01

Prepared & Analyzed: 02/27/25

Chromium, Hexavalent 27.0 0.30 mg/kg dry 28.6 ND 94.4 75-125 3.38 20

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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
 Project Manager: Paul Henchan

Reported:
 04/09/25 11:36

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

Summit Scientific

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

Batch BIB1555 - General Preparation

Blank (BIB1555-BLK1)

Prepared: 02/26/25 Analyzed: 02/27/25

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

LCS (BIB1555-BS1)

Prepared: 02/26/25 Analyzed: 02/28/25

Calcium	5.21	0.0500	mg/L wet	5.00	104	70-130
Magnesium	5.05	0.0500	"	5.00	101	70-130
Sodium	4.43	0.0500	"	5.00	88.7	70-130

Summit Scientific

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 Wellington CO, 80549

Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
 Project Manager: Paul Henchan

Reported:
 04/09/25 11:36

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

Summit Scientific

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

Batch BIB1571 - General Preparation

Duplicate (BIB1571-DUP1)	Source: 2502463-01			Prepared: 02/27/25 Analyzed: 02/28/25	
% Solids	82.6		%	88.3	6.73 20

Summit Scientific

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Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
 Project Manager: Paul Henchan

Reported:
 04/09/25 11:36

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 BIB1557 - General Preparation

Blank (BIB1557-BLK1)

Prepared: 02/26/25 Analyzed: 02/27/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIB1557-BS1)

Prepared: 02/26/25 Analyzed: 02/27/25

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BIB1557-DUP1)

Source: 2502400-01

Prepared: 02/26/25 Analyzed: 02/27/25

Specific Conductance (EC) 0.301 0.0100 mmhos/cm 0.279 7.59 20

Summit Scientific

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 Wellington CO, 80549

Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
 Project Manager: Paul Henchan

Reported:
 04/09/25 11:36

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 BIB1556 - General Preparation

LCS (BIB1556-BS1)

Prepared: 02/26/25 Analyzed: 02/27/25

pH	9.06	pH Units	9.18	98.7	95-105
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Duplicate (BIB1556-DUP1)

Source: 2502400-01

Prepared: 02/26/25 Analyzed: 02/27/25

pH	6.79	pH Units	7.25	6.55	20
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Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Coleman Volkens Lang T4N-R64W-S22 L01

Project Number: UWRWE-A4021-ENV CO24-121
Project Manager: Paul Henchan

Reported:
04/09/25 11:36

Notes and Definitions

- S-04 A sample matrix effect prevented complete surrogate recovery.
- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- O-02 Due to matrix interference, the sample cannot be accurately quantitated. The reported result is qualitative.
- 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