

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
KISSLER K-64N66W 21SESW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C024-001

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
AST01 0.5'	01/02/2024	0.5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
AST02 0.5'	01/02/2024	0.5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWV FLOOR01 5'	01/02/2024	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWV FLOOR02 5'	01/02/2024	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SEP01 DL3'	01/02/2024	3'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SEP02 DL3'	01/02/2024	3'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the ECMC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

Green highlighted cells indicate soil removed via excavation

* Indicates laboratory minimum detection limit in excess of SSL

** Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
KISSLER K-64N66W 21SE5W, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C024-001

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl - Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
AST01 0.5'	01/02/2024	0.5'	<0.00500	<0.00500	0.0121	0.0141	0.0127	0.00869	0.011	<0.00500	0.0165	<0.00500	<0.00500	0.0256	<0.00500	<0.00500
AST02 0.5'	01/02/2024	0.5'	<0.00500	<0.00500	0.00904	0.0114	0.00866	0.00679	0.00771	<0.00500	0.011	<0.00500	<0.00500	0.0159	<0.00500	<0.00500
PWV FLOOR01 5'	01/02/2024	5'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV FLOOR02 5'	01/02/2024	5'	<0.00500	<0.00500	0.00825	0.0163	0.0148	0.00761	0.0154	<0.00500	0.0233	<0.00500	<0.00500	0.0463	<0.00500	<0.00500
SEP01 DL3'	01/02/2024	3'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP02 DL3'	01/02/2024	3'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the ECMC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

Green highlighted cells indicate soil removed via excavation

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
KISSLER K-64N66W 21SESW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C024-001

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
AST01 0.5'	01/02/2024	0.5'	7.24	0.210	0.098	<2.00
AST02 0.5'	01/02/2024	0.5'	6.93	0.0528	0.0162	<2.00
PWV FLOOR01 5'	01/02/2024	5'	8.41	0.121	0.0605	<2.00
PWV FLOOR02 5'	01/02/2024	5'	8.36	0.126	0.0382	<2.00
SEP01 DL3'	01/02/2024	3'	7.47	0.140	0.300	<2.00
SEP02 DL3'	01/02/2024	3'	7.86	0.242	0.138	<2.00

Bold faced, yellow highlighted values exceed the ECMC Table 915-1 concentrations

Green highlighted cells indicate soil removed via excavation

Yellow highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

NA - Not analyzed

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
KISSLER K-64N66W 21SESW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C024-001

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Max. Background Concentration			-	-	-	-	-	-	-	-	-	-
125% Max. Background Concentration			-	-	-	-	-	-	-	-	-	-
AST01 0.5'	01/02/2024	0.5'	1.06	71.1	0.548	<0.30	6.59	19.6	1.65	<0.260	0.334	24.4
AST02 0.5'	01/02/2024	0.5'	1.13	72.7	0.533	<0.30	6.56	19.5	1.75	<0.260	0.299	24.9
PWV FLOOR01 5'	01/02/2024	5'	1.04	61.9	0.251	<0.30	3.41	12.0	2.15	<0.260	0.129	12.9
PWV FLOOR02 5'	01/02/2024	5'	0.932	68.8	0.341	<0.30	4.52	12.2	1.81	<0.260	0.181	18.6
SEP01 DL3'	01/02/2024	3'	0.724	72.4	<0.200	<0.30	2.12	8.36	1.96	<0.260	0.0613	7.82
SEP02 DL3'	01/02/2024	3'	1.01	81.8	0.305	<0.30	4.90	13.2	1.75	<0.260	0.202	16.3

Bold faced values exceed the ECMC Table 915-1 concentrations

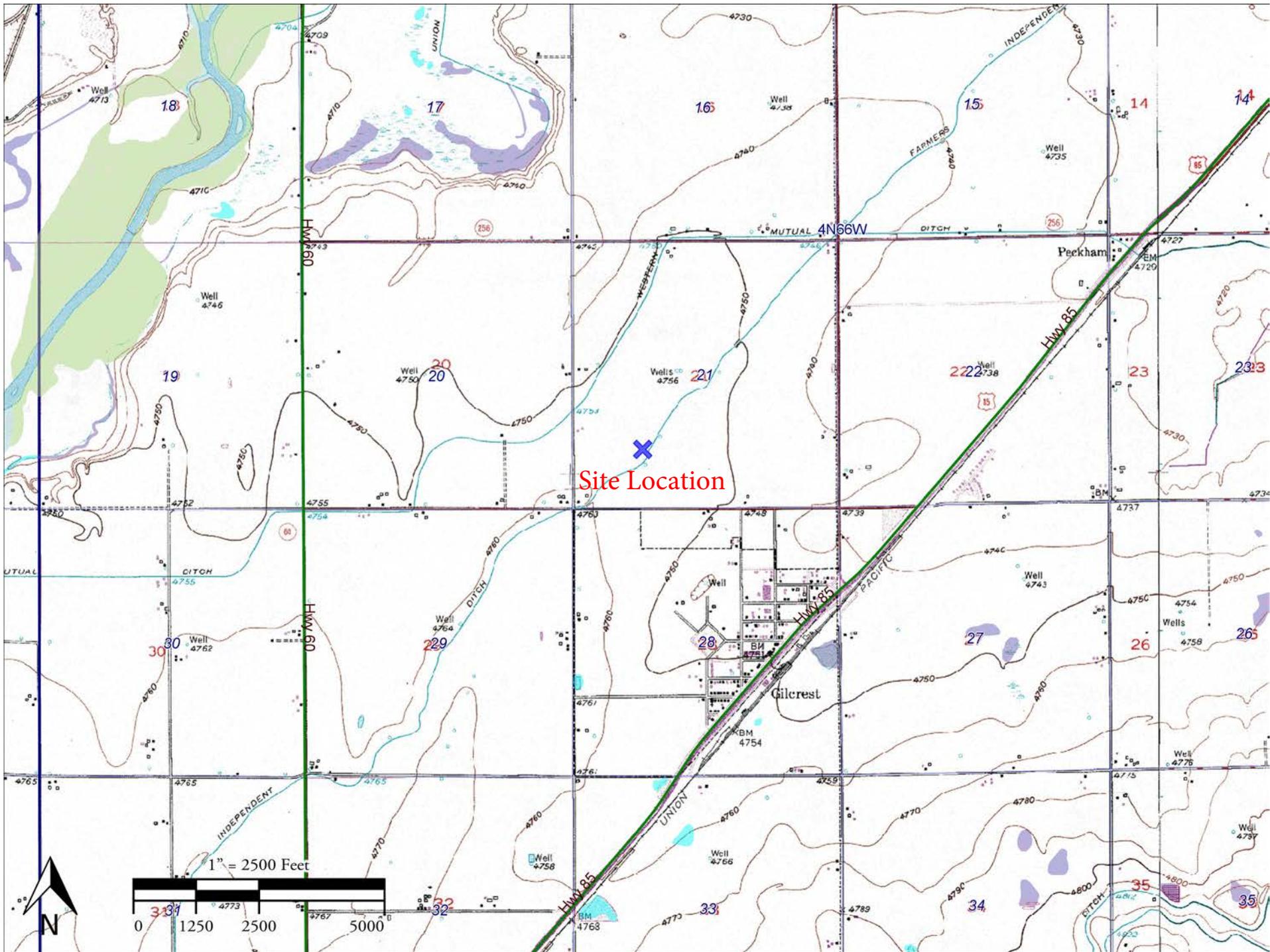
Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

* Indicates laboratory minimum detection limit in excess of SSL

Green highlighted cells indicate soil removed via excavation

NA - Not analyzed

Noble - Kissler K-64N66W 21SESW



Kissler K-64N66W 21SESW

API #/Facility #: 310776

Legal Description: SESW Sec. 21, T4N, R66W

Latitude/Longitude: 40.2928974, -104.7869682

Remediation # 25456

Fremont No. C024-001

Legend

● Impacted Soil Location

Proposed
Background
Sample Locations
(x5)

Excavation Extent:
10'x10'x1' deep
(not shown to scale)

AST01 0.5'

Google Earth

100 ft

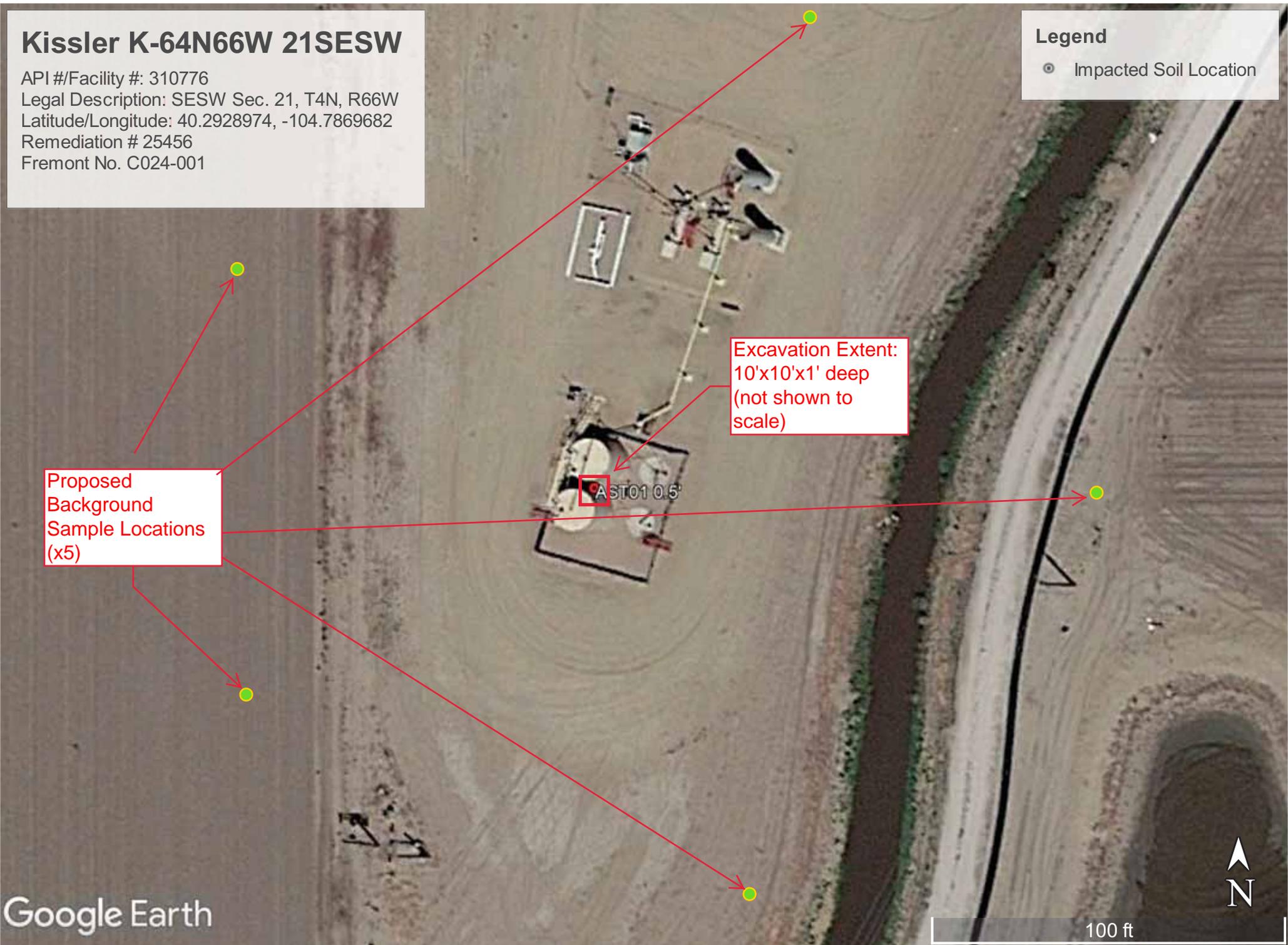


Photo Log



Description:

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Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 29, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Kissler K-64N66W 21SESW

Work Order #2401008

Enclosed are the results of analyses for samples received by Summit Scientific on 01/02/24 17:14. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01 0.5'	2401008-01	Soil	01/02/24 12:10	01/02/24 17:14
AST02 0.5'	2401008-02	Soil	01/02/24 12:15	01/02/24 17:14
PWV FLOOR01 5'	2401008-03	Soil	01/02/24 12:20	01/02/24 17:14
PWV FLOOR02 5'	2401008-04	Soil	01/02/24 12:25	01/02/24 17:14
SEP01 DL3'	2401008-05	Soil	01/02/24 12:30	01/02/24 17:14
SEP02 DL3'	2401008-06	Soil	01/02/24 12:35	01/02/24 17:14

Summit Scientific

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

Lab ID	Page 1 of 1
2401008	

		Send Data To:	Send Invoice To:
Client: Fremont Environmental		Project Manager: Paul Henehan	Company: Noble
Address:		E-Mail: Fremont Distribution List	Project Name/Location: Kissler K-64N66W 2ISESW
City/State/Zip:			AFE#:
Phone: 303-261-6246		Project Name: Kissler K-64N66W 2ISESW	PO/Billing Codes: UWRWE-A2557-ABN
Sampler Name: Stanley Gilbert		Project Number:	Contact: Mike Montoya

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron		Metals (915)
1	AST01 0.5'	11/2/23	12:10	2			X			X			X	X	X	X		
2	AST02 0.5'		12:15				X			X			X	X	X	X		
3	DWV FLOOR01 5'		12:20				X			X			X	X	X	X		
4	DWV FLOOR02 5'		12:25				X			X			X	X	X	X		
5	SEPO1 DL 3'		12:30				X			X			X	X	X	X		
6	SEPO2 DL 3'		12:35				X			X			X	X	X	X		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by:	Date/Time: 11/2/23 17:13	Received by:	Date/Time: 11/2/24 17:14	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 11.70C	Corrected Temperature	IR gun #: 02	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2401008

Client: Fremont Environment Client Project ID: Kisser 1C-64N66.W ZISESW

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other [] Airbill #: []

[x] [] [] [] []

Matrix (Check all that apply) Air [] Soil/Solid [x] Water [] Other []

Temp (°C) 11.7°C Thermometer # 02

Table with 4 columns: Yes, No, N/A, Comments (if any). Rows include: If samples require cooling, is the temperature < 6°C? (1), If custody seals are present, are they intact? (1), Are samples due within 48 hours present?, Are water samples with short hold times present?, Is a chain-of-custody (COC) form present and filled out completely? (1), Is the COC properly relinquished by the client w/ date and time recorded? (1), Were all samples received intact? (1), Was adequate sample volume provided? (1), Does the COC agree with the number and type of sample bottles received? (1), Do the sample IDs on the bottle labels match the COC? (1), For volatiles in water - is there headspace present? If yes, contact client and note in narrative., Are samples preserved that require preservation (excluding cooling)? (1), If samples are acid preserved for metals, is the pH <= 2? (1), If dissolved metals are requested, were samples field filtered?

Additional Comments (if any):

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

GAC Custodian Printed Name

1/2/24 17:14 Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

AST01 0.5'
2401008-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHA0120	01/04/24	01/05/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0383	95.7 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0445	111 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHA0122	01/04/24	01/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.16	57.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

AST01 0.5'
2401008-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0094	01/03/24	01/04/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0121	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0141	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0127	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00869	0.00500	"	"	"	"	"	"	
Chrysene	0.0110	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0165	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0256	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0139	41.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0153	45.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0242	01/08/24	01/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

AST01 0.5'
2401008-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.06	0.200	mg/kg dry	1	BHA0112	01/04/24	01/09/24	EPA 6020B	
Barium	71.1	0.400	"	"	"	"	"	"	
Copper	6.59	0.400	"	"	"	"	"	"	
Nickel	1.65	0.400	"	"	"	"	"	"	
Silver	0.334	0.0200	"	"	"	"	"	"	
Zinc	24.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0128	01/04/24	01/04/24	EPA 7196A	

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

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	50.9	0.0500	mg/L dry	1	BHA0292	01/09/24	01/16/24	EPA 6020B	
Magnesium	12.2	0.0500	"	"	"	"	"	"	
Sodium	3.00	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0980	0.00100	units	1	BHA0614	01/17/24	01/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.2		%	1	BHA0149	01/04/24	01/09/24	Calculation	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

AST01 0.5'
2401008-01 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.210	0.0100		mmhos/cm	1	BHA0360	01/10/24	01/10/24	EPA 120.1	

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

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.24			pH Units	1	BHA0359	01/10/24	01/10/24	EPA 9045D	

Summit Scientific



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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

AST01 0.5'
2401008-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/02/24 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Cadmium	0.548	0.200	mg/kg dry	1	BHA0823	01/04/24	01/25/24	EPA 6020B	
Lead	19.6	0.200	"	"	"	"	"	"	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

AST02 0.5'
2401008-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHA0120	01/04/24	01/05/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0366	91.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0414	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0122	01/04/24	01/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.26	50.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

AST02 0.5'
2401008-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0094	01/03/24	01/04/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00904	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0114	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.00866	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00679	0.00500	"	"	"	"	"	"	
Chrysene	0.00771	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0110	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0159	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0151	45.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0242	01/08/24	01/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/02/24 12:15**

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

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

AST02 0.5'
2401008-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.13	0.200	mg/kg dry	1	BHA0112	01/04/24	01/09/24	EPA 6020B
Barium	72.7	0.400	"	"	"	"	"	"
Copper	6.56	0.400	"	"	"	"	"	"
Nickel	1.75	0.400	"	"	"	"	"	"
Silver	0.299	0.0200	"	"	"	"	"	"
Zinc	24.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0128	01/04/24	01/04/24	EPA 7196A	

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

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	133	0.0500	mg/L dry	1	BHA0292	01/09/24	01/16/24	EPA 6020B	
Magnesium	30.2	0.0500	"	"	"	"	"	"	
Sodium	0.793	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0162	0.00100	units	1	BHA0614	01/17/24	01/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	BHA0149	01/04/24	01/09/24	Calculation	

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

AST02 0.5'
2401008-02 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.0528	0.0100		mmhos/cm	1	BHA0360	01/10/24	01/10/24	EPA 120.1	

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

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	6.93			pH Units	1	BHA0359	01/10/24	01/10/24	EPA 9045D	

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Fremont Environmental
 PO Box 1289
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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

AST02 0.5'
2401008-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/02/24 12:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Cadmium	0.533	0.200	mg/kg dry	1	BHA0823	01/04/24	01/25/24	EPA 6020B	
Lead	19.5	0.200	"	"	"	"	"	"	

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PO Box 1289
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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

PWV FLOOR01 5'
2401008-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHA0120	01/04/24	01/05/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0122	01/04/24	01/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.11	56.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

PWV FLOOR01 5'
2401008-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0094	01/03/24	01/04/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0150	45.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0242	01/08/24	01/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/02/24 12:20**

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

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

PWV FLOOR01 5'
2401008-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.04	0.200	mg/kg dry	1	BHA0112	01/04/24	01/09/24	EPA 6020B	
Cadmium	0.251	0.200	"	"	"	"	"	"	
Copper	3.41	0.400	"	"	"	"	"	"	
Lead	12.0	0.200	"	"	"	"	"	"	
Nickel	2.15	0.400	"	"	"	"	"	"	
Silver	0.129	0.0200	"	"	"	"	"	"	
Zinc	12.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0128	01/04/24	01/04/24	EPA 7196A	

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

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	122	0.0500	mg/L dry	1	BHA0292	01/09/24	01/16/24	EPA 6020B	
Magnesium	6.43	0.0500	"	"	"	"	"	"	
Sodium	2.53	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0605	0.00100	units	1	BHA0614	01/17/24	01/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.6		%	1	BHA0149	01/04/24	01/09/24	Calculation	

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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

PWV FLOOR01 5'
2401008-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/02/24 12:20**

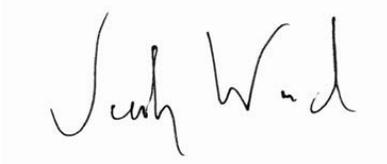
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.121	0.0100	mmhos/cm	1	BHA0360	01/10/24	01/10/24	EPA 120.1	

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

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BHA0359	01/10/24	01/10/24	EPA 9045D	

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Fremont Environmental
 PO Box 1289
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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

PWV FLOOR01 5'
2401008-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/02/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	61.9	0.400	mg/kg dry	1	BHA0823	01/04/24	01/25/24	EPA 6020B	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

PWV FLOOR02 5'
2401008-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHA0120	01/04/24	01/05/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0411	103 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0435	109 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0122	01/04/24	01/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	7.04	56.3 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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PO Box 1289
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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

PWV FLOOR02 5'
2401008-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0094	01/03/24	01/04/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0163	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0148	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00761	0.00500	"	"	"	"	"	"	
Chrysene	0.0154	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0233	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0463	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0140	42.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0161	48.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0242	01/08/24	01/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.932	0.200	mg/kg dry	1	BHA0112	01/04/24	01/09/24	EPA 6020B	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

PWV FLOOR02 5'
2401008-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	68.8	0.400	mg/kg dry	1	BHA0112	01/04/24	01/09/24	EPA 6020B	
Cadmium	0.341	0.200	"	"	"	"	"	"	
Copper	4.52	0.400	"	"	"	"	"	"	
Nickel	1.81	0.400	"	"	"	"	"	"	
Silver	0.181	0.0200	"	"	"	"	"	"	
Zinc	18.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0128	01/04/24	01/04/24	EPA 7196A	

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

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	115	0.0500	mg/L dry	1	BHA0292	01/09/24	01/16/24	EPA 6020B	
Magnesium	8.77	0.0500	"	"	"	"	"	"	
Sodium	1.58	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0382	0.00100	units	1	BHA0614	01/17/24	01/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.0		%	1	BHA0149	01/04/24	01/09/24	Calculation	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

PWV FLOOR02 5'
2401008-04 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.126	0.0100		mmhos/cm	1	BHA0360	01/10/24	01/10/24	EPA 120.1	

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

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.36			pH Units	1	BHA0359	01/10/24	01/10/24	EPA 9045D	

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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

PWV FLOOR02 5'
2401008-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (a) anthracene	0.00825	0.00500	mg/kg	1	BHA0716	01/03/24	01/22/24	EPA 8270D SIM	I-04

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0146	43.9 %	40-150		"	"	"	"	I-04
Surrogate: Fluoranthene-d10	0.0268	80.4 %	40-150		"	"	"	"	I-04

Total Metals by EPA 6020B

Date Sampled: **01/02/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	12.2	0.200	mg/kg dry	1	BHA0823	01/04/24	01/25/24	EPA 6020B	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

SEP01 DL3'
2401008-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHA0120	01/04/24	01/05/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0403	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0415	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0122	01/04/24	01/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.70	61.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

SEP01 DL3'
2401008-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0094	01/03/24	01/04/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0148	44.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0242	01/08/24	01/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/02/24 12:30**

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 - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

SEP01 DL3'
2401008-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.724	0.200	mg/kg dry	1	BHA0112	01/04/24	01/09/24	EPA 6020B
Barium	72.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.12	0.400	"	"	"	"	"	"
Lead	8.36	0.200	"	"	"	"	"	"
Nickel	1.96	0.400	"	"	"	"	"	"
Silver	0.0613	0.0200	"	"	"	"	"	"
Zinc	7.82	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 01/02/24 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0128	01/04/24	01/04/24	EPA 7196A	

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

Date Sampled: 01/02/24 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.1	0.0500	mg/L dry	1	BHA0292	01/09/24	01/16/24	EPA 6020B	
Magnesium	5.80	0.0500	"	"	"	"	"	"	
Sodium	6.14	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 01/02/24 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.300	0.00100	units	1	BHA0614	01/17/24	01/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

SEP01 DL3'
2401008-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.0		%	1	BHA0149	01/04/24	01/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.140	0.0100	mmhos/cm	1	BHA0360	01/10/24	01/10/24	EPA 120.1	

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

Date Sampled: **01/02/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.47		pH Units	1	BHA0359	01/10/24	01/10/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

SEP02 DL3'
2401008-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHA0120	01/04/24	01/05/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0432	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0122	01/04/24	01/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.79	54.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

SEP02 DL3'
2401008-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0094	01/03/24	01/04/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/02/24 12:35**

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

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0242	01/08/24	01/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/02/24 12:35**

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 - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

SEP02 DL3'
2401008-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.01	0.200	mg/kg dry	1	BHA0112	01/04/24	01/09/24	EPA 6020B	
Barium	81.8	0.400	"	"	"	"	"	"	
Copper	4.90	0.400	"	"	"	"	"	"	
Nickel	1.75	0.400	"	"	"	"	"	"	
Silver	0.202	0.0200	"	"	"	"	"	"	
Zinc	16.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0128	01/04/24	01/04/24	EPA 7196A	

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

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.1	0.0500	mg/L dry	1	BHA0292	01/09/24	01/16/24	EPA 6020B	
Magnesium	6.89	0.0500	"	"	"	"	"	"	
Sodium	3.26	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.138	0.00100	units	1	BHA0614	01/17/24	01/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.4		%	1	BHA0149	01/04/24	01/09/24	Calculation	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

SEP02 DL3'
2401008-06 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/02/24 12:35**

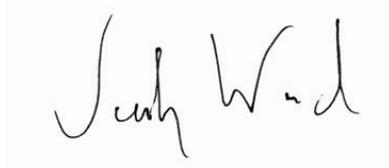
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.242	0.0100		mmhos/cm	1	BHA0360	01/10/24	01/10/24	EPA 120.1	

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

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.86			pH Units	1	BHA0359	01/10/24	01/10/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

SEP02 DL3'
2401008-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/02/24 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Cadmium	0.305	0.200	mg/kg dry	1	BHA0823	01/04/24	01/25/24	EPA 6020B	
Lead	13.2	0.200	"	"	"	"	"	"	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

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 BHA0120 - EPA 5030 Soil MS

Blank (BHA0120-BLK1)

Prepared & Analyzed: 01/04/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0375		"	0.0400		93.8	50-150			
<i>Surrogate: Toluene-d8</i>	0.0442		"	0.0400		110	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0421		"	0.0400		105	50-150			

LCS (BHA0120-BS1)

Prepared & Analyzed: 01/04/24

Benzene	0.0899	0.0020	mg/kg	0.100		89.9	70-130			
Toluene	0.119	0.0050	"	0.100		119	70-130			
Ethylbenzene	0.114	0.0050	"	0.100		114	70-130			
m,p-Xylene	0.230	0.010	"	0.200		115	70-130			
o-Xylene	0.109	0.0050	"	0.100		109	70-130			
1,2,4-Trimethylbenzene	0.108	0.0050	"	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.111	0.0050	"	0.100		111	70-130			
Naphthalene	0.0877	0.0038	"	0.100		87.7	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0330		"	0.0400		82.5	50-150			
<i>Surrogate: Toluene-d8</i>	0.0416		"	0.0400		104	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0398		"	0.0400		99.6	50-150			

Matrix Spike (BHA0120-MS1)

Source: 2401006-01

Prepared & Analyzed: 01/04/24

Benzene	0.0905	0.0020	mg/kg	0.100	ND	90.5	70-130			
Toluene	0.117	0.0050	"	0.100	ND	117	70-130			
Ethylbenzene	0.117	0.0050	"	0.100	ND	117	70-130			
m,p-Xylene	0.235	0.010	"	0.200	ND	117	70-130			
o-Xylene	0.112	0.0050	"	0.100	ND	112	70-130			
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
1,3,5-Trimethylbenzene	0.112	0.0050	"	0.100	ND	112	70-130			
Naphthalene	0.0880	0.0038	"	0.100	ND	88.0	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0372		"	0.0400		92.9	50-150			
<i>Surrogate: Toluene-d8</i>	0.0417		"	0.0400		104	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0393		"	0.0400		98.2	50-150			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

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 BHA0120 - EPA 5030 Soil MS

Matrix Spike Dup (BHA0120-MSD1)	Source: 2401006-01			Prepared: 01/04/24 Analyzed: 01/05/24						
Benzene	0.0860	0.0020	mg/kg	0.100	ND	86.0	70-130	5.13	30	
Toluene	0.0873	0.0050	"	0.100	ND	87.3	70-130	29.1	30	
Ethylbenzene	0.0785	0.0050	"	0.100	ND	78.5	70-130	39.2	30	QR-02
m,p-Xylene	0.148	0.010	"	0.200	ND	73.8	70-130	45.6	30	QR-02
o-Xylene	0.0749	0.0050	"	0.100	ND	74.9	70-130	40.1	30	QR-02
1,2,4-Trimethylbenzene	0.0906	0.0050	"	0.100	ND	90.6	70-130	17.0	30	
1,3,5-Trimethylbenzene	0.0855	0.0050	"	0.100	ND	85.5	70-130	27.0	30	
Naphthalene	0.0877	0.0038	"	0.100	ND	87.7	70-130	0.410	30	
Surrogate: 1,2-Dichloroethane-d4	0.0390		"	0.0400		97.4	50-150			
Surrogate: Toluene-d8	0.0436		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

Summit Scientific

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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHA0122 - EPA 3550A

Blank (BHA0122-BLK1)

Prepared & Analyzed: 01/04/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	11.5		"	12.5		91.8		30-150		

LCS (BHA0122-BS1)

Prepared & Analyzed: 01/04/24

C10-C28 (DRO)	491	50	mg/kg	500		98.2		70-130		
Surrogate: <i>o</i> -Terphenyl	10.1		"	12.5		81.1		30-150		

Matrix Spike (BHA0122-MS1)

Source: 2401006-01

Prepared & Analyzed: 01/04/24

C10-C28 (DRO)	471	50	mg/kg	500	19.4	90.2		70-130		
Surrogate: <i>o</i> -Terphenyl	8.52		"	12.5		68.1		30-150		

Matrix Spike Dup (BHA0122-MSD1)

Source: 2401006-01

Prepared & Analyzed: 01/04/24

C10-C28 (DRO)	514	50	mg/kg	500	19.4	99.0		70-130	8.88	20
Surrogate: <i>o</i> -Terphenyl	7.80		"	12.5		62.4		30-150		

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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

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 BHA0094 - EPA 5030 Soil MS

Blank (BHA0094-BLK1)

Prepared: 01/03/24 Analyzed: 01/04/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0280</i>		"	<i>0.0333</i>		<i>83.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0222</i>		"	<i>0.0333</i>		<i>66.6</i>	<i>40-150</i>			

LCS (BHA0094-BS1)

Prepared: 01/03/24 Analyzed: 01/04/24

Acenaphthene	0.0219	0.00500	mg/kg	0.0333		65.6	31-137			
Anthracene	0.0217	0.00500	"	0.0333		65.0	30-120			
Benzo (a) anthracene	0.0211	0.00500	"	0.0333		63.2	30-120			
Benzo (a) pyrene	0.0228	0.00500	"	0.0333		68.3	30-120			
Benzo (b) fluoranthene	0.0200	0.00500	"	0.0333		60.1	30-120			
Benzo (k) fluoranthene	0.0187	0.00500	"	0.0333		56.1	30-120			
Chrysene	0.0207	0.00500	"	0.0333		62.1	30-120			
Dibenz (a,h) anthracene	0.0223	0.00500	"	0.0333		67.0	30-120			
Fluoranthene	0.0200	0.00500	"	0.0333		60.1	30-120			
Fluorene	0.0226	0.00500	"	0.0333		67.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0156	0.00500	"	0.0333		46.8	30-120			
Pyrene	0.0216	0.00500	"	0.0333		64.8	35-142			
1-Methylnaphthalene	0.0213	0.00500	"	0.0333		63.9	35-142			
2-Methylnaphthalene	0.0210	0.00500	"	0.0333		63.1	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0150</i>		"	<i>0.0333</i>		<i>44.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0201</i>		"	<i>0.0333</i>		<i>60.4</i>	<i>40-150</i>			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

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 BHA0094 - EPA 5030 Soil MS

Matrix Spike (BHA0094-MS1)

Source: 2312559-01

Prepared: 01/03/24 Analyzed: 01/04/24

Acenaphthene	0.0159	0.00500	mg/kg	0.0333	ND	47.8	31-137			
Anthracene	0.0146	0.00500	"	0.0333	ND	43.9	30-120			
Benzo (a) anthracene	0.0151	0.00500	"	0.0333	ND	45.3	30-120			
Benzo (a) pyrene	0.0165	0.00500	"	0.0333	ND	49.4	30-120			
Benzo (b) fluoranthene	0.0142	0.00500	"	0.0333	ND	42.7	30-120			
Benzo (k) fluoranthene	0.0156	0.00500	"	0.0333	ND	46.8	30-120			
Chrysene	0.0145	0.00500	"	0.0333	ND	43.4	30-120			
Dibenz (a,h) anthracene	0.0157	0.00500	"	0.0333	ND	47.2	30-120			
Fluoranthene	0.0147	0.00500	"	0.0333	ND	44.2	30-120			
Fluorene	0.0161	0.00500	"	0.0333	ND	48.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0215	0.00500	"	0.0333	ND	64.4	30-120			
Pyrene	0.0137	0.00500	"	0.0333	ND	41.1	35-142			
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.3	15-130			
2-Methylnaphthalene	0.0172	0.00500	"	0.0333	ND	51.4	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0169		"	0.0333		50.8	40-150			
Surrogate: Fluoranthene-d10	0.0136		"	0.0333		40.8	40-150			

Matrix Spike Dup (BHA0094-MSD1)

Source: 2312559-01

Prepared: 01/03/24 Analyzed: 01/04/24

Acenaphthene	0.0199	0.00500	mg/kg	0.0333	ND	59.7	31-137	22.0	30	
Anthracene	0.0202	0.00500	"	0.0333	ND	60.5	30-120	31.8	30	QR-02
Benzo (a) anthracene	0.0144	0.00500	"	0.0333	ND	43.2	30-120	4.74	30	
Benzo (a) pyrene	0.0186	0.00500	"	0.0333	ND	55.7	30-120	11.9	30	
Benzo (b) fluoranthene	0.0139	0.00500	"	0.0333	ND	41.7	30-120	2.44	30	
Benzo (k) fluoranthene	0.0138	0.00500	"	0.0333	ND	41.3	30-120	12.5	30	
Chrysene	0.0174	0.00500	"	0.0333	ND	52.1	30-120	18.3	30	
Dibenz (a,h) anthracene	0.0157	0.00500	"	0.0333	ND	47.1	30-120	0.0424	30	
Fluoranthene	0.0144	0.00500	"	0.0333	ND	43.3	30-120	1.96	30	
Fluorene	0.0174	0.00500	"	0.0333	ND	52.1	30-120	7.48	30	
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	36.5	30	QR-02
Pyrene	0.0172	0.00500	"	0.0333	ND	51.5	35-142	22.5	30	
1-Methylnaphthalene	0.0174	0.00500	"	0.0333	ND	52.1	15-130	3.60	50	
2-Methylnaphthalene	0.0137	0.00500	"	0.0333	ND	41.0	15-130	22.5	50	
Surrogate: 2-Methylnaphthalene-d10	0.0155		"	0.0333		46.5	40-150			
Surrogate: Fluoranthene-d10	0.0149		"	0.0333		44.7	40-150			

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Fremont Environmental
PO Box 1289
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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

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 BHA0716 - EPA 5030 Soil MS

Blank (BHA0716-BLK1)

Prepared & Analyzed: 01/22/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0192</i>		"	<i>0.0333</i>		<i>57.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0334</i>		"	<i>0.0333</i>		<i>100</i>	<i>40-150</i>			

LCS (BHA0716-BS1)

Prepared & Analyzed: 01/22/24

Acenaphthene	0.0360	0.00500	mg/kg	0.0333	108	31-137
Anthracene	0.0376	0.00500	"	0.0333	113	30-120
Benzo (a) anthracene	0.0345	0.00500	"	0.0333	103	30-120
Benzo (a) pyrene	0.0332	0.00500	"	0.0333	99.7	30-120
Benzo (b) fluoranthene	0.0350	0.00500	"	0.0333	105	30-120
Benzo (k) fluoranthene	0.0374	0.00500	"	0.0333	112	30-120
Chrysene	0.0394	0.00500	"	0.0333	118	30-120
Dibenz (a,h) anthracene	0.0267	0.00500	"	0.0333	80.1	30-120
Fluoranthene	0.0369	0.00500	"	0.0333	111	30-120
Fluorene	0.0386	0.00500	"	0.0333	116	30-120
Indeno (1,2,3-cd) pyrene	0.0262	0.00500	"	0.0333	78.7	30-120
Pyrene	0.0376	0.00500	"	0.0333	113	35-142
1-Methylnaphthalene	0.0312	0.00500	"	0.0333	93.7	35-142
2-Methylnaphthalene	0.0380	0.00500	"	0.0333	114	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0320</i>		"	<i>0.0333</i>	<i>96.0</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0377</i>		"	<i>0.0333</i>	<i>113</i>	<i>40-150</i>

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

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 BHA0716 - EPA 5030 Soil MS

Matrix Spike (BHA0716-MS1)

Source: 2401332-01

Prepared & Analyzed: 01/22/24

Acenaphthene	0.0187	0.00500	mg/kg	0.0333	ND	56.1	31-137			
Anthracene	0.0214	0.00500	"	0.0333	ND	64.1	30-120			
Benzo (a) anthracene	0.0212	0.00500	"	0.0333	ND	63.6	30-120			
Benzo (a) pyrene	0.0188	0.00500	"	0.0333	ND	56.5	30-120			
Benzo (b) fluoranthene	0.0182	0.00500	"	0.0333	ND	54.7	30-120			
Benzo (k) fluoranthene	0.0203	0.00500	"	0.0333	ND	60.9	30-120			
Chrysene	0.0222	0.00500	"	0.0333	ND	66.5	30-120			
Dibenz (a,h) anthracene	0.0160	0.00500	"	0.0333	ND	48.0	30-120			
Fluoranthene	0.0213	0.00500	"	0.0333	ND	63.9	30-120			
Fluorene	0.0221	0.00500	"	0.0333	ND	66.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0150	0.00500	"	0.0333	ND	45.1	30-120			
Pyrene	0.0219	0.00500	"	0.0333	ND	65.7	35-142			
1-Methylnaphthalene	0.0145	0.00500	"	0.0333	ND	43.5	15-130			
2-Methylnaphthalene	0.0231	0.00500	"	0.0333	ND	69.3	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0141		"	0.0333		42.4	40-150			
Surrogate: Fluoranthene-d10	0.0220		"	0.0333		65.9	40-150			

Matrix Spike Dup (BHA0716-MSD1)

Source: 2401332-01

Prepared & Analyzed: 01/22/24

Acenaphthene	0.0154	0.00500	mg/kg	0.0333	ND	46.1	31-137	19.5	30	
Anthracene	0.0150	0.00500	"	0.0333	ND	45.1	30-120	34.8	30	QR-02
Benzo (a) anthracene	0.0149	0.00500	"	0.0333	ND	44.7	30-120	34.9	30	QR-02
Benzo (a) pyrene	0.0153	0.00500	"	0.0333	ND	46.0	30-120	20.4	30	
Benzo (b) fluoranthene	0.0138	0.00500	"	0.0333	ND	41.4	30-120	27.6	30	
Benzo (k) fluoranthene	0.0143	0.00500	"	0.0333	ND	43.0	30-120	34.4	30	QR-02
Chrysene	0.0156	0.00500	"	0.0333	ND	46.8	30-120	34.7	30	QR-02
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.9	30-120	2.19	30	
Fluoranthene	0.0153	0.00500	"	0.0333	ND	46.0	30-120	32.6	30	QR-02
Fluorene	0.0159	0.00500	"	0.0333	ND	47.6	30-120	33.0	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0134	0.00500	"	0.0333	ND	40.3	30-120	11.3	30	
Pyrene	0.0158	0.00500	"	0.0333	ND	47.5	35-142	32.3	30	QR-02
1-Methylnaphthalene	0.0135	0.00500	"	0.0333	ND	40.6	15-130	7.08	50	
2-Methylnaphthalene	0.0146	0.00500	"	0.0333	ND	43.8	15-130	45.0	50	
Surrogate: 2-Methylnaphthalene-d10	0.0161		"	0.0333		48.3	40-150			
Surrogate: Fluoranthene-d10	0.0161		"	0.0333		48.2	40-150			

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

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

Summit Scientific

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

Batch BHA0242 - EPA 3050B

Blank (BHA0242-BLK1)

Prepared: 01/08/24 Analyzed: 01/12/24

Boron ND 2.00 mg/L

LCS (BHA0242-BS1)

Prepared: 01/08/24 Analyzed: 01/12/24

Boron 5.38 2.00 mg/L 5.00 108 80-120

Duplicate (BHA0242-DUP1)

Source: 2401007-01

Prepared: 01/08/24 Analyzed: 01/12/24

Boron ND 2.00 mg/L 0.0150 200 20 QR-01

Matrix Spike (BHA0242-MS1)

Source: 2401007-01

Prepared: 01/08/24 Analyzed: 01/12/24

Boron 4.97 2.00 mg/L 5.00 0.0150 99.1 75-125

Matrix Spike Dup (BHA0242-MSD1)

Source: 2401007-01

Prepared: 01/08/24 Analyzed: 01/12/24

Boron 5.71 2.00 mg/L 5.00 0.0150 114 75-125 14.0 25

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PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

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 BHA0112 - EPA 3050B

Blank (BHA0112-BLK1)

Prepared: 01/04/24 Analyzed: 01/09/24

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

LCS (BHA0112-BS1)

Prepared: 01/04/24 Analyzed: 01/09/24

Arsenic	39.7	0.200	mg/kg wet	40.0	99.3	80-120
Barium	38.6	0.400	"	40.0	96.5	80-120
Cadmium	1.93	0.200	"	2.00	96.3	80-120
Copper	41.5	0.400	"	40.0	104	80-120
Lead	19.5	0.200	"	20.0	97.6	80-120
Nickel	40.0	0.400	"	40.0	100	80-120
Silver	1.95	0.0200	"	2.00	97.4	80-120
Zinc	40.3	0.400	"	40.0	101	80-120
Selenium	4.65	0.260	"	4.00	116	80-120

Duplicate (BHA0112-DUP1)

Source: 2310539-01

Prepared: 01/04/24 Analyzed: 01/09/24

Arsenic	1.47	0.200	mg/kg wet	1.38	6.06	20
Barium	116	0.400	"	103	11.9	20
Cadmium	0.131	0.200	"	0.128	2.47	20
Copper	2.25	0.400	"	2.14	5.15	20
Lead	6.00	0.200	"	5.59	7.10	20
Nickel	2.59	0.400	"	2.42	6.67	20
Silver	0.0272	0.0200	"	0.0268	1.48	20
Zinc	8.80	0.400	"	8.37	5.02	20
Selenium	ND	0.260	"	ND		20

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Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

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 BHA0112 - EPA 3050B

Matrix Spike (BHA0112-MS1)

Source: 2310539-01

Prepared: 01/04/24 Analyzed: 01/09/24

Arsenic	11.8	0.200	mg/kg wet	40.0	1.38	26.1	75-125				QM-07
Barium	147	0.400	"	40.0	103	109	75-125				
Cadmium	2.03	0.200	"	2.00	0.128	95.0	75-125				
Copper	13.6	0.400	"	40.0	2.14	28.7	75-125				QM-07
Lead	23.0	0.200	"	20.0	5.59	86.8	75-125				
Nickel	13.9	0.400	"	40.0	2.42	28.6	75-125				QM-07
Silver	1.88	0.0200	"	2.00	0.0268	92.6	75-125				
Zinc	19.2	0.400	"	40.0	8.37	27.2	75-125				QM-07
Selenium	3.78	0.260	"	4.00	ND	94.4	75-125				

Matrix Spike Dup (BHA0112-MSD1)

Source: 2310539-01

Prepared: 01/04/24 Analyzed: 01/09/24

Arsenic	11.9	0.200	mg/kg wet	40.0	1.38	26.3	75-125	0.819	25		QM-07
Barium	145	0.400	"	40.0	103	106	75-125	0.865	25		
Cadmium	2.03	0.200	"	2.00	0.128	95.2	75-125	0.197	25		
Copper	13.6	0.400	"	40.0	2.14	28.7	75-125	0.103	25		QM-07
Lead	22.9	0.200	"	20.0	5.59	86.6	75-125	0.234	25		
Nickel	13.9	0.400	"	40.0	2.42	28.7	75-125	0.320	25		QM-07
Silver	1.87	0.0200	"	2.00	0.0268	92.1	75-125	0.576	25		
Zinc	19.3	0.400	"	40.0	8.37	27.3	75-125	0.282	25		QM-07
Selenium	3.79	0.260	"	4.00	ND	94.6	75-125	0.264	25		

Batch BHA0823 - EPA 3050B

Blank (BHA0823-BLK1)

Prepared: 01/24/24 Analyzed: 01/25/24

Arsenic	ND	0.200	mg/kg wet								
Barium	ND	0.400	"								
Cadmium	ND	0.200	"								
Copper	ND	0.400	"								
Lead	ND	0.200	"								
Nickel	ND	0.400	"								
Silver	ND	0.0200	"								
Zinc	ND	0.400	"								
Selenium	ND	0.260	"								

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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/29/24 12:34

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 BHA0823 - EPA 3050B

LCS (BHA0823-BS1)

Prepared: 01/24/24 Analyzed: 01/25/24

Arsenic	33.3	0.200	mg/kg wet	40.0		83.1	80-120			
Barium	33.0	0.400	"	40.0		82.5	80-120			
Cadmium	1.64	0.200	"	2.00		82.0	80-120			
Copper	34.6	0.400	"	40.0		86.4	80-120			
Lead	16.3	0.200	"	20.0		81.3	80-120			
Nickel	34.3	0.400	"	40.0		85.8	80-120			
Silver	1.67	0.0200	"	2.00		83.4	80-120			
Zinc	34.7	0.400	"	40.0		86.7	80-120			
Selenium	3.41	0.260	"	4.00		85.2	80-120			

Duplicate (BHA0823-DUP1)

Source: 2401364-01

Prepared: 01/24/24 Analyzed: 01/25/24

Arsenic	0.869	0.200	mg/kg dry		0.846			2.67	20	
Barium	17.5	0.400	"		19.4			10.1	20	
Cadmium	0.0753	0.200	"		0.0717			5.01	20	
Copper	1.66	0.400	"		1.50			9.95	20	
Lead	2.48	0.200	"		2.48			0.00	20	
Nickel	1.47	0.400	"		1.41			4.43	20	
Silver	0.00614	0.0200	"		0.00778			23.5	20	QR-01
Zinc	6.62	0.400	"		6.70			1.13	20	
Selenium	ND	0.260	"		ND				20	

Matrix Spike (BHA0823-MS1)

Source: 2401364-01

Prepared: 01/24/24 Analyzed: 01/25/24

Arsenic	33.2	0.200	mg/kg dry	40.9	0.846	79.1	75-125			
Barium	50.8	0.400	"	40.9	19.4	76.8	75-125			
Cadmium	1.64	0.200	"	2.05	0.0717	76.7	75-125			
Copper	30.5	0.400	"	40.9	1.50	70.8	75-125			QM-05
Lead	18.3	0.200	"	20.5	2.48	77.3	75-125			
Nickel	30.1	0.400	"	40.9	1.41	70.1	75-125			QM-05
Silver	1.59	0.0200	"	2.05	0.00778	77.1	75-125			
Zinc	36.3	0.400	"	40.9	6.70	72.2	75-125			QM-05
Selenium	3.07	0.260	"	4.09	ND	75.1	75-125			

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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BHA0823 - EPA 3050B

Matrix Spike Dup (BHA0823-MSD1)	Source: 2401364-01			Prepared: 01/24/24 Analyzed: 01/25/24						
Arsenic	33.2	0.200	mg/kg dry	40.9	0.846	78.9	75-125	0.187	25	
Barium	50.1	0.400	"	40.9	19.4	75.1	75-125	1.42	25	
Cadmium	1.64	0.200	"	2.05	0.0717	76.5	75-125	0.250	25	
Copper	30.2	0.400	"	40.9	1.50	70.1	75-125	0.912	25	QM-05
Lead	18.2	0.200	"	20.5	2.48	76.6	75-125	0.723	25	
Nickel	30.1	0.400	"	40.9	1.41	70.0	75-125	0.132	25	QM-05
Silver	1.57	0.0200	"	2.05	0.00778	76.5	75-125	0.829	25	
Zinc	35.4	0.400	"	40.9	6.70	70.1	75-125	2.35	25	QM-05
Selenium	3.16	0.260	"	4.09	ND	77.2	75-125	2.73	25	

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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHA0128 - 3060A Mod

Blank (BHA0128-BLK1)			Prepared & Analyzed: 01/04/24								
Chromium, Hexavalent	ND	0.30	mg/kg wet								
LCS (BHA0128-BS1)			Prepared & Analyzed: 01/04/24								
Chromium, Hexavalent	25.6	0.30	mg/kg wet	25.0	102	80-120					
Duplicate (BHA0128-DUP1)			Source: 2401008-01			Prepared & Analyzed: 01/04/24					
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
Matrix Spike (BHA0128-MS1)			Source: 2401008-01			Prepared & Analyzed: 01/04/24					
Chromium, Hexavalent	26.4	0.30	mg/kg dry	26.5	ND	99.6	75-125				
Matrix Spike Dup (BHA0128-MSD1)			Source: 2401008-01			Prepared & Analyzed: 01/04/24					
Chromium, Hexavalent	25.9	0.30	mg/kg dry	26.5	ND	97.4	75-125	2.23		20	

Summit Scientific

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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

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

Summit Scientific

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

Batch BHA0292 - General Preparation

Blank (BHA0292-BLK1)

Prepared: 01/09/24 Analyzed: 01/16/24

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

LCS (BHA0292-BS1)

Prepared: 01/09/24 Analyzed: 01/16/24

Calcium	5.52	0.0500	mg/L wet	5.00		110	70-130			
Magnesium	5.90	0.0500	"	5.00		118	70-130			
Sodium	6.15	0.0500	"	5.00		123	70-130			

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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

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

Summit Scientific

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

Batch BHA0149 - General Preparation

Duplicate (BHA0149-DUP1)	Source: 2312563-01	Prepared: 01/04/24	Analyzed: 01/09/24
% Solids	85.0	%	83.9
			1.35
			20

Summit Scientific



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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

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 BHA0360 - General Preparation

Blank (BHA0360-BLK1)

Prepared & Analyzed: 01/10/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHA0360-BS1)

Prepared & Analyzed: 01/10/24

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

Duplicate (BHA0360-DUP1)

Source: 2401007-01

Prepared & Analyzed: 01/10/24

Specific Conductance (EC) 0.0781 0.0100 mmhos/cm 0.0782 0.0896 20

Summit Scientific

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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/29/24 12:34

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 BHA0359 - General Preparation

LCS (BHA0359-BS1)

Prepared & Analyzed: 01/10/24

pH 9.17 pH Units 9.18 99.9 95-105

Duplicate (BHA0359-DUP1)

Source: 2401007-01

Prepared & Analyzed: 01/10/24

pH 6.86 pH Units 7.18 4.56 20

Batch BHA0703 - General Preparation

LCS (BHA0703-BS1)

Prepared & Analyzed: 01/22/24

pH 9.18 pH Units 9.18 100 95-105

Duplicate (BHA0703-DUP1)

Source: 2401008-03

Prepared & Analyzed: 01/22/24

pH 8.36 pH Units 8.44 0.952 20

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Project: Noble - Kissler K-64N66W 21SESW

Project Number: [none]
Project Manager: Paul Henchan

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01/29/24 12:34

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- I-04 Sample was analyzed out of recommended holding time per clients request.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference