

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY, INC.
KISSLER 01,03X, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-074

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)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
AST01@6"	03/08/2023	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
PWVB01@6.5'	03/08/2023	6.5	0.043	<0.0050	0.019	<0.010	0.49	<0.0050	0.044	4.8	<50	<50
PWVS01@5'	03/08/2023	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	1.2	210	<50
SEP01@4'	03/08/2023	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.5	<50	<50
SB-CEN 11FT	11/02/2023	11	0.016	<0.0050	<0.0050	<0.010	5	<0.0050	0.47	27	230	<50
SB-E 11FT	11/02/2023	11	<0.0020	<0.0050	<0.0050	<0.010	0.5	0.058	0.13	13	120.0	<50
SB-E2 12FT	11/02/2023	12	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-N 11FT	11/02/2023	11	0.026	<0.0050	0.049	<0.010	<0.0050	<0.0050	0.62	73	770	59
SB-N2 11FT	11/02/2023	11	0.38	<0.0050	0.14	<0.010	<0.0050	<0.0050	0.39	1100	590	70
SB-N4 12FT	11/02/2023	12	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-S 12FT	11/02/2023	12	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-W 11FT	11/02/2023	11	<0.0020	<0.0050	<0.0050	<0.010	0.0058	<0.0050	0.0039	<0.50	<50	<50

Bold faced values exceed the COGCC 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

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

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY, INC.
KISSLER 01,03X, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-074

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)
COGCC 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
COGCC 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@6"	03/08/2023	0.5	<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
PWVB01@6.5'	03/08/2023	6.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.024	<0.00500	<0.00500	0.142	0.162
PWVS01@5'	03/08/2023	5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0195	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP01@4'	03/08/2023	4	<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
SB-CEN 11FT	11/02/2023	11	<0.00500	<0.00500	0.0103	<0.00500	<0.00500	<0.00500	0.00674	<0.00500	<0.00500	<0.00500	<0.00500	0.00587	5.3	12.6
SB-E 11FT	11/02/2023	11	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.209	0.468
SB-E2 12FT	11/02/2023	12	<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
SB-N 11FT	11/02/2023	11	<0.00500	<0.00500	0.0148	<0.00500	<0.00500	<0.00500	0.00974	<0.00500	0.00983	0.115	<0.00500	0.00894	1.11	2.66
SB-N2 11FT	11/02/2023	11	<0.00500	<0.00500	0.0266	<0.00500	<0.00500	<0.00500	0.0395	<0.00500	<0.00500	0.102	<0.00500	0.0444	0.92	2.44
SB-N4 12FT	11/02/2023	12	<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
SB-S 12FT	11/02/2023	12	<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
SB-W 11FT	11/02/2023	11	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00949	<0.00500	<0.00500	0.013	0.00755

Bold faced values exceed the COGCC 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

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY, INC.
KISSLER 01,03X, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-074

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
AST01@6"	03/08/2023	0.5	8.75	0.222	1.240	0.125
PWVB01@6.5'	03/08/2023	6.5	7.77	0.398	1.47	0.812
PWVS01@5'	03/08/2023	5	7.87	0.553	0.607	0.655
SEP01@4'	03/08/2023	4	8.02	0.412	1	0.497
SB-CEN 11FT	11/02/2023	11	9.35	0.252	1.83	<2.00
SB-E 11FT	11/02/2023	11	8.01	0.419	0.177	<2.00
SB-E2 12FT	11/02/2023	12	8.07	0.149	2.01	<2.00
SB-N 11FT	11/02/2023	11	9.42	0.390	0.897	<2.00
SB-N2 11FT	11/02/2023	11	8.45	0.304	1.92	<2.00
SB-N4 12FT	11/02/2023	12	8.76	0.270	2.21	<2.00
SB-S 12FT	11/02/2023	12	7.92	0.120	1.61	<2.00
SB-W 11FT	11/02/2023	11	8.45	0.398	1.64	<2.00

Bold faced values exceed the COGCC Table 915-1 concentrations

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

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY, INC.
KISSLER 01,03X, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-074

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)
COGCC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
SB-CEN 11FT	11/02/2023	11	3.86	128	0.347	<0.30	7.78	8.75	5.78	<0.260	0.0592	21.1
SB-E 11FT	11/02/2023	11	1.92	62	<0.200	<0.30	3.4	6.23	4.14	<0.260	0.0388	15.8
SB-E2 12FT	11/02/2023	12	2.43	56	<0.200	<0.30	3.64	5.01	3.2	<0.260	0.025	13.9
SB-N 11FT	11/02/2023	11	2.68	72	<0.200	<0.30	4.62	5.54	4.03	<0.260	0.0314	15.2
SB-N2 11FT	11/02/2023	11	4.51	83	<0.200	<0.30	5	6.32	5.19	<0.260	0.0218	14.8
SB-N4 12FT	11/02/2023	12	1.84	38	<0.200	<0.30	2.68	3.55	2.7	<0.260	0.0254	9.56
SB-S 12FT	11/02/2023	12	5.59	269	0.233	<0.30	6.57	7.39	5.11	<0.260	0.0389	16.4
SB-W 11FT	11/02/2023	11	6.79	195	0.314	<0.30	8.46	10.8	5.91	<0.260	0.0528	22.6

Bold faced values exceed the COGCC 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

TABLE 5
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA
NOBLE ENERGY, INC.
KISSLER 01,03X, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-074

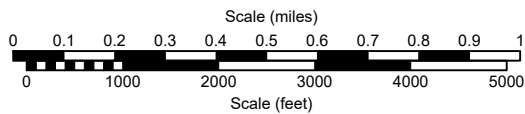
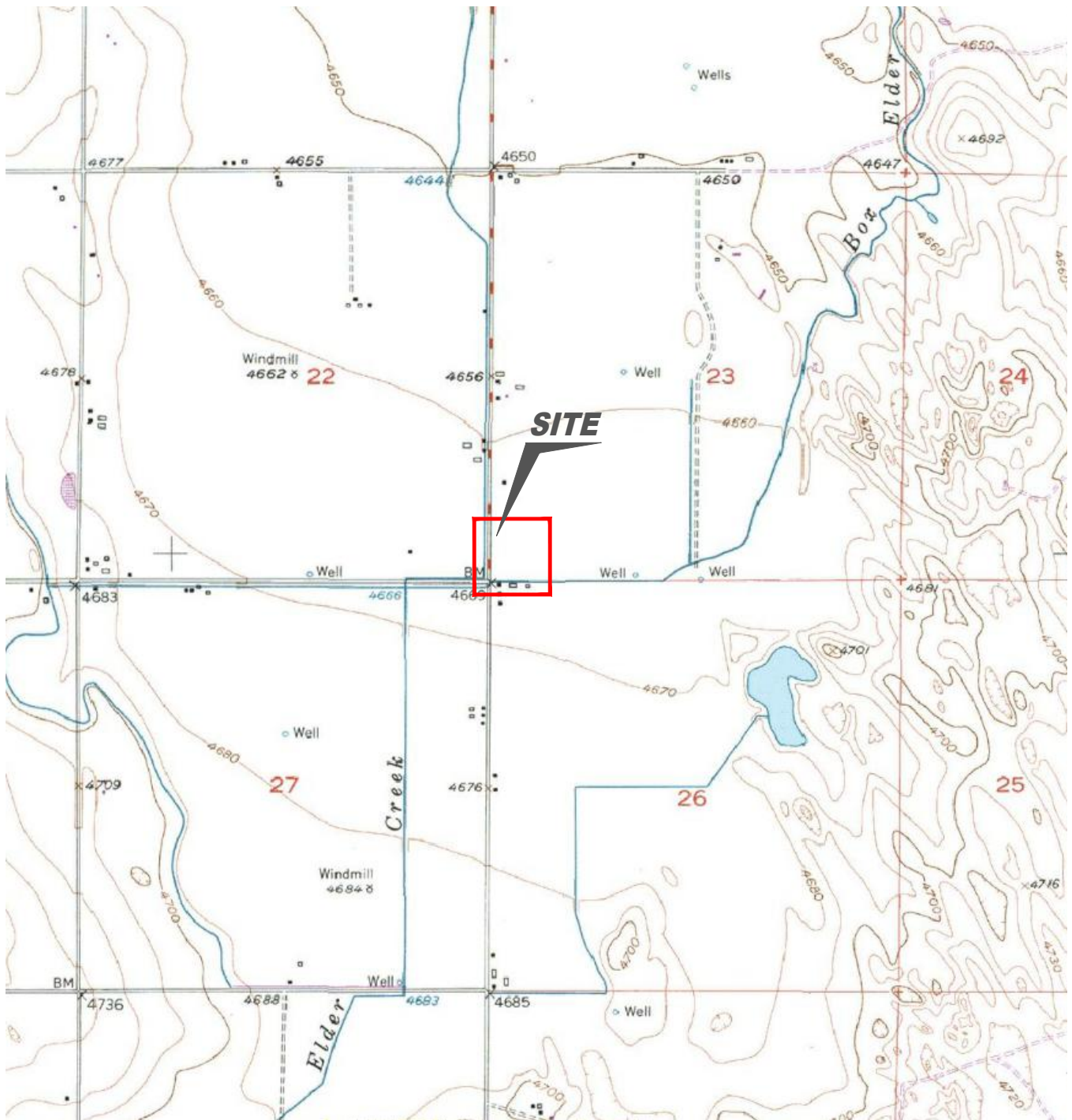
Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethyl-Benzene (µg/L)	1,3,5-Trimethyl-Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
COGCC Table 915-1 Limits		5.0	560	700	1400	140	67	67				
W1	11/02/2023	<1.0	<1.0	<1.0	<2.0	4.5	55	<1.0	NA	~12	NA	NP

Bold face values exceed the COGCC limits

Red highlighted 915-1 Limits indicate the referenced groundwater screening level

NP - No measureable LNAPL

NA - Not Analyzed



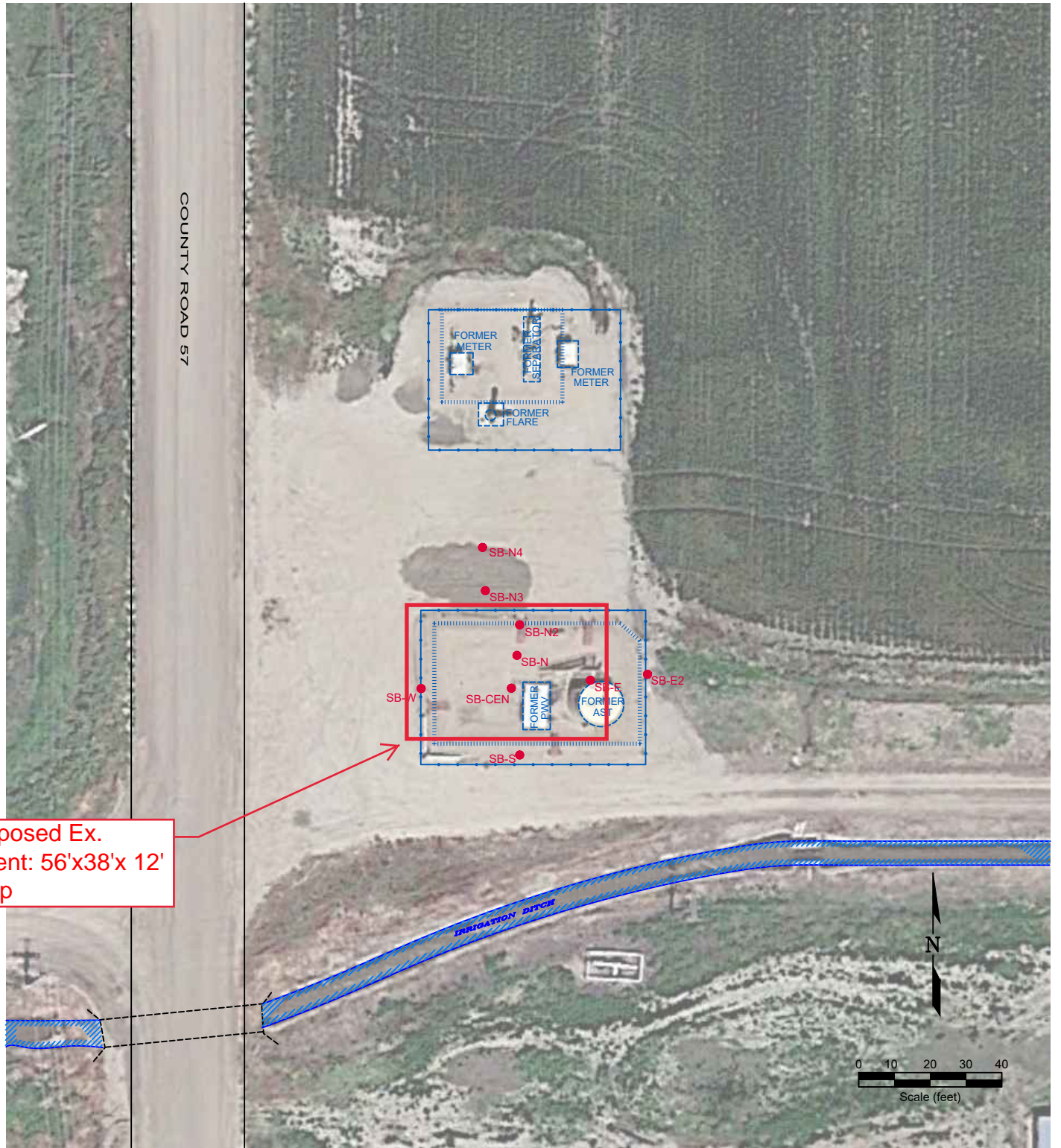
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY INC - KISSLER 01,03X
 SWSW Sec. 23, T4N, R64W, 6th PM
 Weld County, Colorado
 40.290983°, -104.527062°

Project No. CO23-074	API #	Facility # 447356
Date 01/08/2024	Remediation # 23714	Filename 23074T





Proposed Ex.
Extent: 56'x38'x 12'
deep

LEGEND

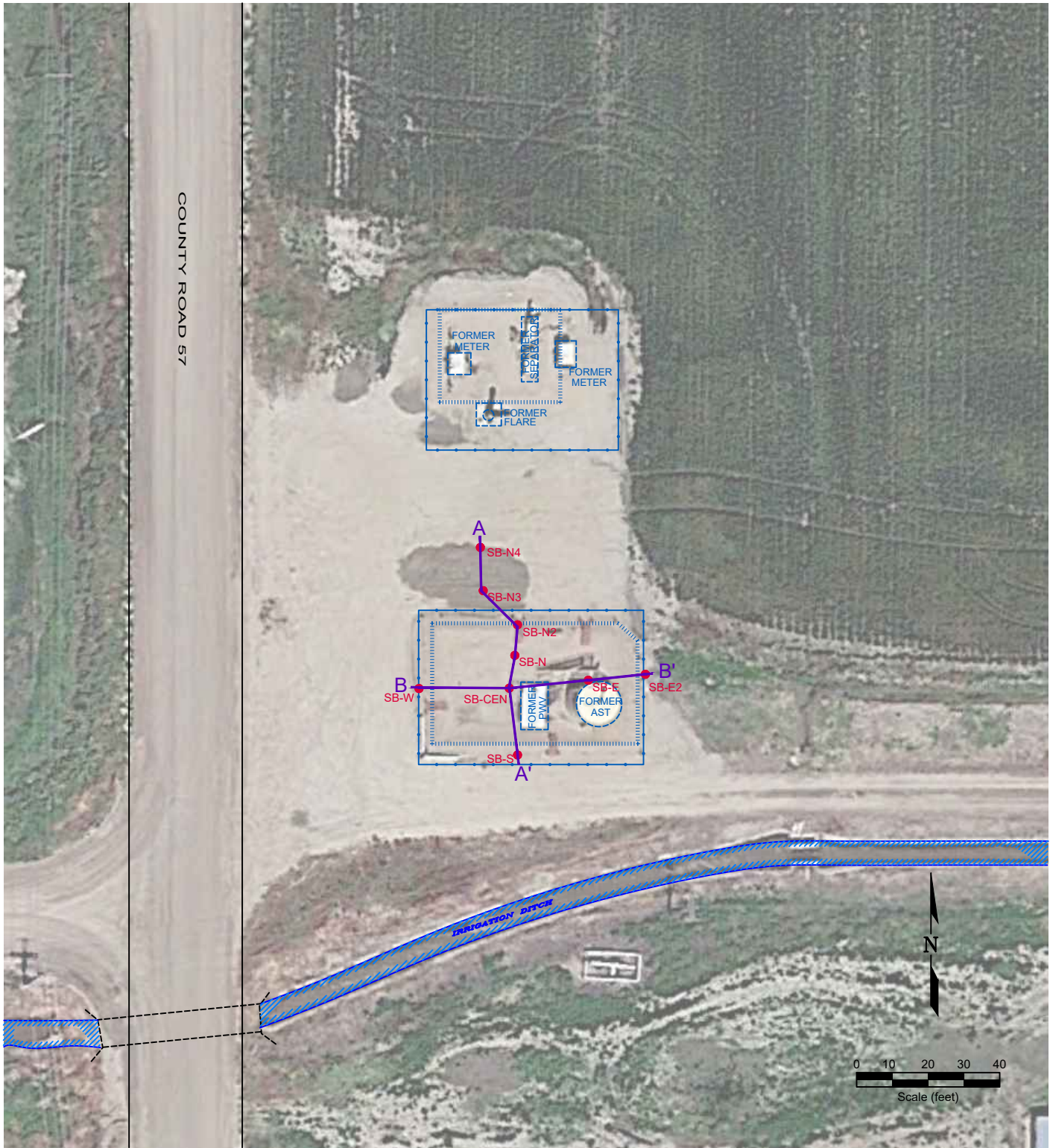
- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- CONTAINMENT BERM
- CONTAINMENT WALL
- FENCE LINE

Figure 2
SITE MAP

NOBLE ENERGY INC - KISSLER 01,03X
SWSW Sec. 23, T4N, R64W, 6th PM
 Weld County, Colorado
 40.290983°, -104.527062°

Project No. CO23-074	API #	Facility # 447356
Date 1/8/24	Remediation # 23714	Filename 23074QTB





LEGEND

- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- CONTAINMENT BERM
- CONTAINMENT WALL
- FENCE LINE
- A-A' CROSS SECTION CUT LINE

Figure 3
CROSS SECTION MAP

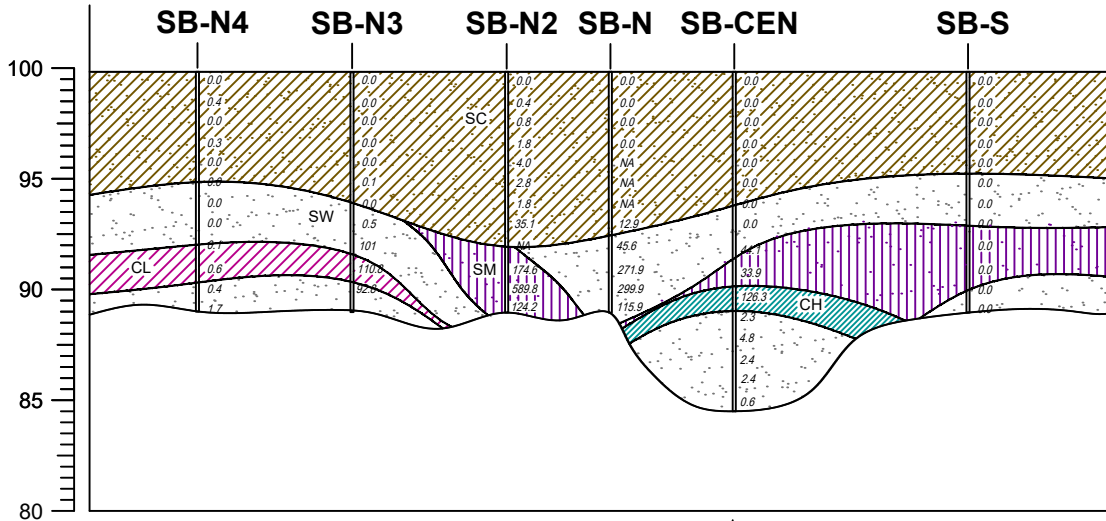
NOBLE ENERGY INC - KISSLER 01,03X
SWSW Sec. 23, T4N, R64W, 6th PM
 Weld County, Colorado
 40.290983°, -104.527062°

Project No. CO23-074	API #	Facility # 447356
Date 1/9/24	Remediation # 23714	Filename 23074QTB



NORTH
A

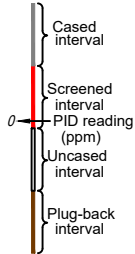
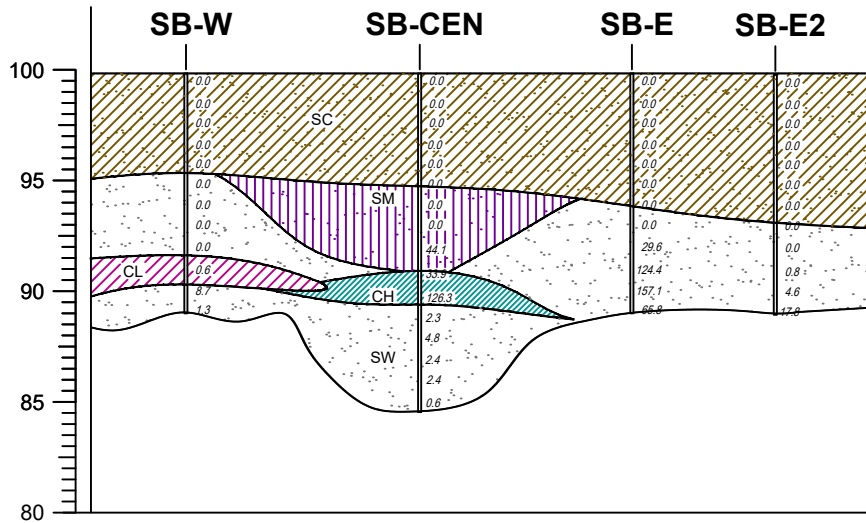
SOUTH
A'



WEST
B

Intersect A-A'/B-B'

EAST
B'



LEGEND

Clay, high plasticity	Sand, well-graded	Fill
Clay, low plasticity	Sand, poorly-graded	Asphalt
Silt, high plasticity	Sand, clayey	Roadbase
Silt, low plasticity	Sand silty	Basin fill
Clay, silty, high plasticity	Gravel, well-graded	Claystone
Clay, silty, low plasticity	Gravel	Firm sandy clay
Silt, clayey, high plasticity	Gravel, clayey	Shale
Silt, clayey, low plasticity	Gravel, silty	Sandstone

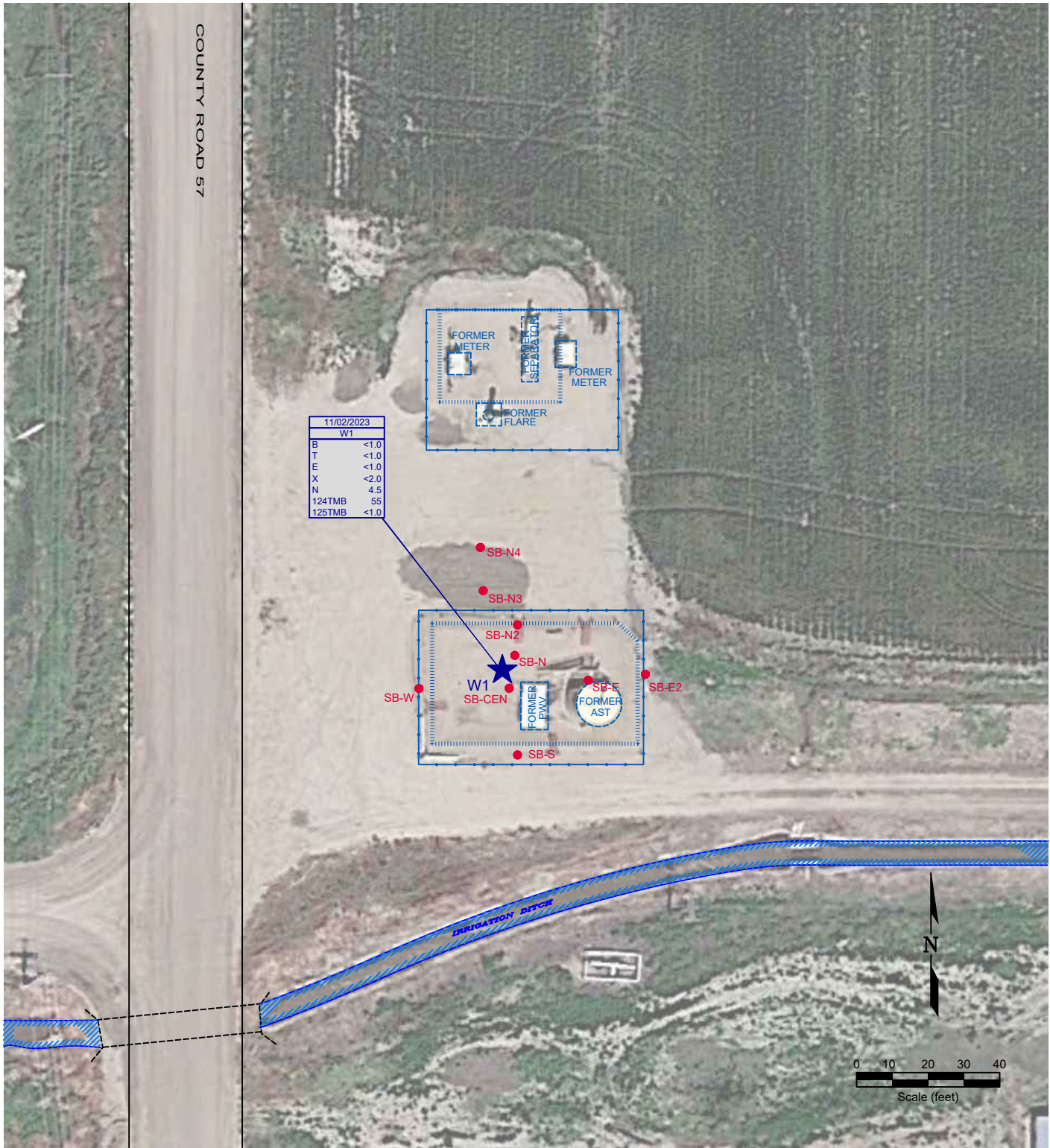
Figure 4

CROSS SECTIONS A - A' AND B - B'

NOBLE ENERGY INC - KISSLER 01,03X
SWSW Sec. 23, T4N, R64W, 6th PM
Weld County, Colorado
40.290983°, -104.527062°

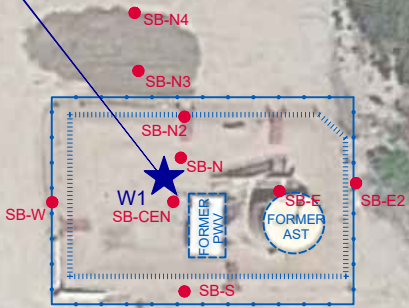
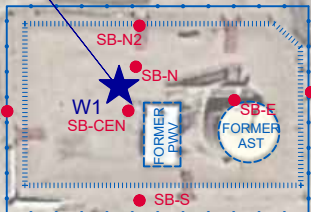
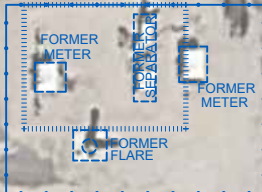
Project No. C023-074	API #	Facility # 447356
Date 1/9/24	Remediation # 23714	Filename 23074X



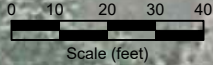
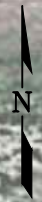


11/02/2023	
W1	
B	<1.0
T	<1.0
E	<1.0
X	<2.0
N	4.5
124TMB	55
125TMB	<1.0

COUNTY ROAD 57



IRRIGATION DITCH



LEGEND

- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- ★ GROUNDWATER SAMPLE LOCATION
- FORMER FACILITY
- CONTAINMENT BERM
- CONTAINMENT WALL
- FENCE LINE

11/02/2023	
W1	
B	<1.0
T	<1.0
E	<1.0
X	<2.0
N	4.5
124TMB	55
125TMB	<1.0

DATE SAMPLED
SAMPLE ID
BENZENE (ug/L)
TOLUENE (ug/L)
ETHYLBENZENE (ug/L)
TOTAL XYLENES (ug/L)
NAPHTHALENE (ug/L)
1,2,4-TRIMETHYLBENZENE (ug/L)
1,3,5-TRIMETHYLBENZENE (ug/L)

**Figure 6
GROUNDWATER CHEMISTRY MAP**

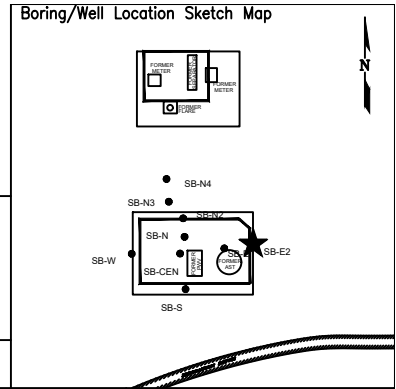
NOBLE ENERGY INC - KISSLER 01,03X
SWSW Sec. 23, T4N, R64W, 6th PM
 Weld County, Colorado
 40.290983°, -104.527062°

Project No. CO23-074	API #	Facility # 447356
Date 1/9/24	Remediation # 23714	Filename 23074QTB





BORING/WELL CONSTRUCTION LOG



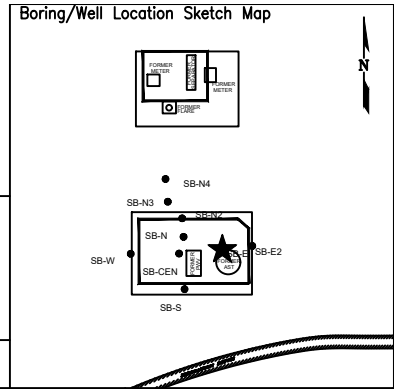
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Boring/Well No. SB-E2		Total Depth 12'	Location Noble Energy, Inc. Kissler 01,03X SWSW Sec. 23, T4N, R64W, 6th PM Weld County, Colorado				
Project No./Name CO23-074 / Noble Kissler 01, 03X		Drilling Contractor/Driller Drill Pro / Terrence, Bennett, Glen, Blake					
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Approved By					
Drilling Equipment/Method Geoprobe		Size/Type of Bit 2.5" direct push		Sampling Method direct push			
				Start/Finish Date 11/02/2023			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)	
		GRAPHIC LOG	VISUAL DESCRIPTION					
5	[Well Construction Diagram]	SC	Sandy Clay: brown				0.0	
							0.0	
							0.0	
							0.0	
							0.0	
							0.0	
							0.0	
							0.0	
							0.0	
							0.0	
10	[Well Construction Diagram]	SW	Sand: gray to beige		90%		0.0	
			black 2" SM lens at 10'				0.8	
			TD 12'		90%		4.6	
15	[Well Construction Diagram]						17.8	
20	[Well Construction Diagram]							



BORING/WELL CONSTRUCTION LOG



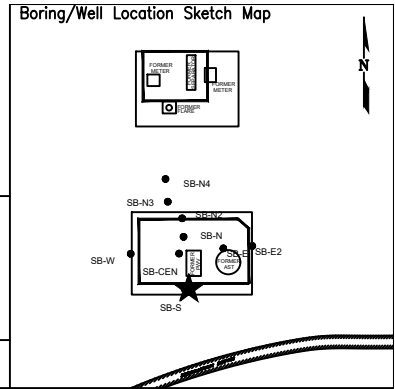
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Boring/Well No. SB-E		Total Depth 12'	Location Noble Energy, Inc. Kissler 01,03X SWSW Sec. 23, T4N, R64W, 6th PM Weld County, Colorado				
Project No./Name CO23-074 / Noble Kissler 01, 03X		Drilling Contractor/Driller Drill Pro / Terrence, Bennett, Glen, Blake					
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Approved By					
Drilling Equipment/Method Geoprobe		Size/Type of Bit 2.5" direct push		Sampling Method direct push			
				Start/Finish Date 11/02/2023			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)	
		GRAPHIC LOG	VISUAL DESCRIPTION					
5	[Well Construction Diagram]	SC	Sandy Clay: brown, very fine sand		90%		0.0	
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
10	[Well Construction Diagram]	SW	Sand: beige and gray, very fine sand, wet		90%		29.6	
								124.4
								157.1
								65.8
								65.8
15	[Well Construction Diagram]				90%			
20	[Well Construction Diagram]							



BORING/WELL CONSTRUCTION LOG



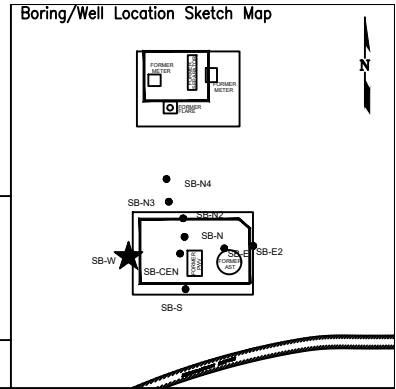
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Boring/Well No. SB-S		Total Depth 12'	Location Noble Energy, Inc. Kissler 01,03X SWSW Sec. 23, T4N, R64W, 6th PM Weld County, Colorado				
Project No./Name CO23-074 / Noble Kissler 01, 03X		Drilling Contractor/Driller Drill Pro / Terrence, Bennett, Glen, Blake					
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Approved By					
Drilling Equipment/Method Geoprobe		Size/Type of Bit 2.5" direct push		Sampling Method direct push			
				Start/Finish Date 11/02/2023			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5		SC	Sandy Clay: brown, very fine sand, plastic, moist		90%		0.0
							0.0
							0.0
							0.0
							0.0
10		SW	Sand: beige, and gray, very fine sand, saturated		90%		0.0
							0.0
			- sandy silt lens 9' to 11';				0.0
		SM	- color change to gray				0.0
							0.0
15					90%		0.0
							0.0
							0.0
							0.0
							0.0
20			TD 12'				0.0



BORING/WELL CONSTRUCTION LOG



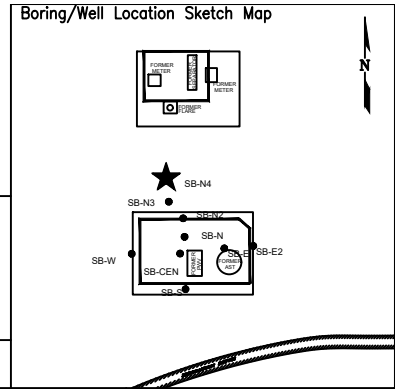
Page 1 of 1

Boring/Well No. SB-W		Total Depth 12'	Location Noble Energy, Inc. Kissler 01,03X SWSW Sec. 23, T4N, R64W, 6th PM Weld County, Colorado			
Project No./Name CO23-074 / Noble Kissler 01, 03X		Drilling Contractor/Driller Drill Pro / Terrence, Bennett, Glen, Blake				
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Approved By				
Drilling Equipment/Method Geoprobe		Size/Type of Bit 2.5" direct push		Sampling Method direct push		
				Start/Finish Date 11/02/2023		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.		Screen: Type . Mtrl. . Length . Dia. . Slot Size .		
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5	[Well Construction Diagram]	SC	Sandy Clay: brown, very fine sand, plastic, moist, 3" black lens		90%		0.0
		SC					0.0
		SC					0.0
		SC					0.0
		SC					0.0
		SC					0.0
		SC					0.0
		SC					0.0
		SC					0.0
		SC					0.0
10	[Well Construction Diagram]	SW	Sand: tan to gray, very fine to medium sand, wet		80%		0.0
		SW					0.0
		SW					0.6
		SW					8.7
15	[Well Construction Diagram]	CL	- 1' clay lens at 10', moist		80%		1.3
		CL					
		CL					
		CL					
20	[Well Construction Diagram]		TD 12'				



BORING/WELL CONSTRUCTION LOG



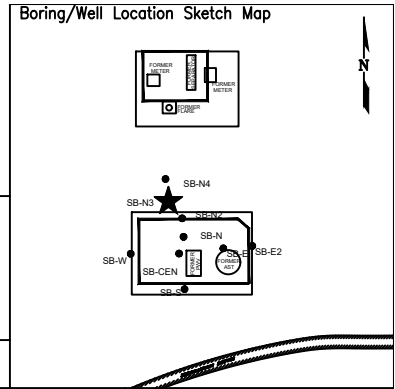
Page 1 of 1

Boring/Well No. SB-N4		Total Depth 12'	Location Noble Energy, Inc. Kissler 01,03X SWSW Sec. 23, T4N, R64W, 6th PM Weld County, Colorado				
Project No./Name CO23-074 / Noble Kissler 01, 03X		Drilling Contractor/Driller Drill Pro / Terrence, Bennett, Glen, Blake					
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Approved By					
Drilling Equipment/Method Geoprobe		Size/Type of Bit 2.5" direct push		Sampling Method direct push			
				Start/Finish Date 11/02/2023			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5		SC	Sandy Clay: brown		98%	0.0	
						0.4	
						0.0	
						0.3	
						0.0	
10		SW	Sand: beige, and gray, very fine grain, saturated		90%	0.0	
						0.1	
		CL	Clay from 10' to 11'			0.6	
						0.4	
						1.7	
15			TD 12'		90%		
20							



BORING/WELL CONSTRUCTION LOG



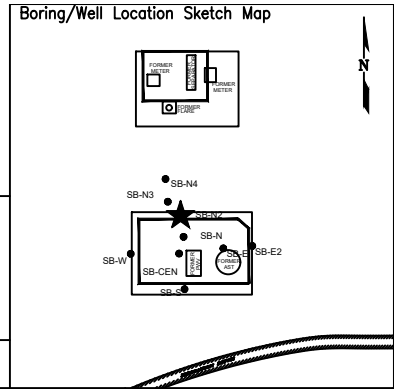
Page 1 of 1

Boring/Well No. SB-N3		Total Depth 12'	Location Noble Energy, Inc. Kissler 01,03X SWSW Sec. 23, T4N, R64W, 6th PM Weld County, Colorado				
Project No./Name CO23-074 / Noble Kissler 01, 03X		Drilling Contractor/Driller Drill Pro / Terrence, Bennett, Glen, Blake					
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Approved By					
Drilling Equipment/Method Geoprobe		Size/Type of Bit 2.5" direct push		Sampling Method direct push			
				Start/Finish Date 11/02/2023			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5	[Well Construction Diagram]	SC	Sandy Clay: dark brown, very fine, grained, plastic, moist		90%		0.0
		SC					0.0
		SC					0.0
		SC					0.0
		SC					0.0
		SC					0.0
		SC					0.0
		SC					0.0
		SC					0.0
		SC					0.0
10	[Well Construction Diagram]	SW	Sand: beige, and gray, very fine grain, saturated		90%		0.1
		SW	- increasing silt				0.0
		SW	- wet				0.0
		SW					0.5
		SW					101
15	[Well Construction Diagram]	CL	Clay from 10' to 11'				110.8
		CL					92.8
		CL					92.8
20	[Well Construction Diagram]		TD 12'		90%		



BORING/WELL CONSTRUCTION LOG



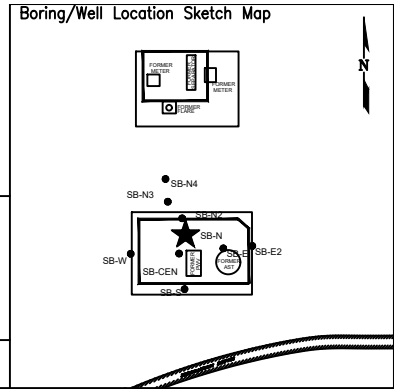
Page 1 of 1

Boring/Well No. SB-N2		Total Depth 12'	Location Noble Energy, Inc. Kissler 01,03X SWSW Sec. 23, T4N, R64W, 6th PM Weld County, Colorado				
Project No./Name CO23-074 / Noble Kissler 01, 03X		Drilling Contractor/Driller Drill Pro / Terrence, Bennett, Glen, Blake					
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Approved By					
Drilling Equipment/Method Geoprobe		Size/Type of Bit 2.5" direct push		Sampling Method direct push			
				Start/Finish Date 11/02/2023			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5		SC	Sandy Clay: brown to dark brown		95%	0.0	
						0.4	
						0.8	
						1.8	
						4.0	
10		SM	Sandy Silt		90%	1.8	
			wet ~ 8'			35.1	
						NA	
						174.6	
						589.8	
15		SM	Sandy Silt		50%	124.2	
			TD 12'				
20							



BORING/WELL CONSTRUCTION LOG



Page 1 of 1

Boring/Well No. SB-N		Total Depth 12'	Location Noble Energy, Inc. Kissler 01,03X SWSW Sec. 23, T4N, R64W, 6th PM Weld County, Colorado				
Project No./Name CO23-074 / Noble Kissler 01, 03X		Drilling Contractor/Driller Drill Pro / Terrence, Bennett, Glen, Blake					
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Approved By					
Drilling Equipment/Method Geoprobe		Size/Type of Bit 2.5" direct push		Sampling Method direct push			
				Start/Finish Date 11/02/2023			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION		LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			GRAPHIC LOG	VISUAL DESCRIPTION				
5			SC	Sandy Clay: brown to dark brown, very fine sand, moist		85%		0.0
			NR	No Recovery				0.0
			NR	No Recovery				0.0
			NR	No Recovery				0.0
			NR	No Recovery				0.0
10			SC	wet ~ 8'		5%		12.9
			SC					45.6
			SC					271.9
			SC					299.9
			SW	Sand: gray, very fine to medium fine, wet				299.9
15			SW	TD 12'		90%		115.9
			SW					
			SW					
			SW					
			SW					
20			SW					
			SW					
			SW					
			SW					
			SW					

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

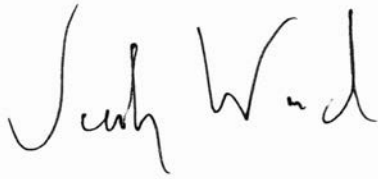
303.277.9310

November 15, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Kissler 3X
Work Order #2311079

Enclosed are the results of analyses for samples received by Summit Scientific on 11/02/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a small flourish at the end of the last name.

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-CEN 11FT	2311079-01	Soil	11/02/23 00:00	11/02/23 16:30
SB-N 11FT	2311079-02	Soil	11/02/23 00:00	11/02/23 16:30
SB-N2 11FT	2311079-03	Soil	11/02/23 00:00	11/02/23 16:30
SB-N4 12FT	2311079-04	Soil	11/02/23 00:00	11/02/23 16:30
SB-W 11FT	2311079-05	Soil	11/02/23 00:00	11/02/23 16:30
SB-S 12FT	2311079-06	Soil	11/02/23 00:00	11/02/23 16:30
SB-E 11FT	2311079-07	Soil	11/02/23 00:00	11/02/23 16:30
SB-E2 12FT	2311079-08	Soil	11/02/23 00:00	11/02/23 16:30
W1	2311079-09	Water	11/02/23 00:00	11/02/23 16:30

Summit Scientific

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

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2311079	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental, Inc.	Project Manager: Henehan	Company: Chevron	
Address: 8305 6th St.	E-Mail: Fremont Distribution List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549		AFE#:	
Phone: 603-477-6907	Project Name: Noble - Kissler 3X	PO/Billing Codes:	
Sampler Name: Ethan Black	Project Number:	Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	TDS, Chloride, Sulfate	Metals (915-1)	
1	SB-CEN 11FT	11/2/23		2			X					X	X	X	X	X			
2	SB-N 11FT																		
3	SB-N2 11FT																		
4	SB-N4 12FT																		
5	SB-W 11FT																		
6	SB-S 12FT																		
7	SB-E 11FT																		
8	SB-E2 12FT																		
9	W1			3	X				X										
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <i>Ethan Black</i>	Date/Time: 11/2/23 1449	Received by: S2 - North Office	Date/Time: 11/2/23 1449	TAT Business Days	Field DO	Notes:
Relinquished by: <i>S2</i>	Date/Time: 11/2/23 1650	Received by: <i>[Signature]</i>	Date/Time: 11/2/23 1630	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: 9.0	Corrected Temperature: 9	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2311079

Client: Fremont

Client Project ID: Noble-Kessler 3X

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #: _____

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? (1) NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>OK</u>
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>no time stamps</u>
Is the COC properly relinquished by the client w/ date and time recorded? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? (1) Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>HCl</u>
If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

AS

Custodian Printed Name

11/2/23

Date/Time

11/2/23



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-CEN 11FT
2311079-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.016	0.0020	mg/kg	1	BGK0176	11/06/23	11/07/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	5.0	0.050	"	10	"	"	11/07/23	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	1	"	"	11/07/23	"	
Naphthalene	0.47	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	27	0.50	"	"	"	"	11/07/23	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0518	129 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0420	105 %	50-150		"	"	11/07/23	"	
Surrogate: 4-Bromofluorobenzene	0.0628	157 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	230	50	mg/kg	1	BGK0178	11/06/23	11/07/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.00	72.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-CEN 11FT
2311079-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0199	11/07/23	11/07/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0103	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00674	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00587	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	5.30	0.0500	"	10	"	"	11/09/23	"	E
2-Methylnaphthalene	12.6	0.0500	"	"	"	"	"	"	E

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0399	120 %	40-150		"	"	11/07/23	"	
Surrogate: Fluoranthene-d10	0.0198	59.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0298	11/08/23	11/10/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

**SB-CEN 11FT
2311079-01 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.86	0.200	mg/kg dry	1	BGK0386	11/10/23	11/13/23	EPA 6020B
Barium	128	0.400	"	"	"	"	"	"
Cadmium	0.347	0.200	"	"	"	"	"	"
Copper	7.78	0.400	"	"	"	"	"	"
Lead	8.75	0.200	"	"	"	"	"	"
Nickel	5.78	0.400	"	"	"	"	"	"
Silver	0.0592	0.0200	"	"	"	"	"	"
Zinc	21.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0316	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.3	0.0500	mg/L dry	1	BGK0397	11/10/23	11/13/23	EPA 6020B	
Magnesium	5.00	0.0500	"	"	"	"	"	"	
Sodium	41.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.83	0.00100	units	1	BGK0555	11/15/23	11/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/02/23 00:00

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 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

**SB-CEN 11FT
 2311079-01 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.0	%	1	BGK0452	11/13/23	11/13/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.252	0.0100	mmhos/cm	1	BGK0428	11/13/23	11/13/23	EPA 120.1	

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

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.35		pH Units	1	BGK0427	11/13/23	11/13/23	EPA 9045D	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

SB-N 11FT
2311079-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.026	0.0020	mg/kg	1	BGK0176	11/06/23	11/07/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.049	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.62	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	73	0.50	"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0524	131 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0391	97.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.180	450 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	770	50	mg/kg	1	BGK0178	11/06/23	11/07/23	EPA 8015M	
C28-C36 (ORO)	59	50	"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.09	64.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-N 11FT
2311079-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0199	11/07/23	11/07/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0148	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00974	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00983	0.00500	"	"	"	"	"	"	
Fluorene	0.115	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00894	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	1.11	0.250	"	50	"	"	11/09/23	"	
2-Methylnaphthalene	2.66	0.250	"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.243	730 %	40-150		"	"	11/07/23	"	S-02
Surrogate: Fluoranthene-d10	0.0229	68.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0298	11/08/23	11/10/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/02/23 00:00**

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 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-N 11FT
2311079-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.68	0.200	mg/kg dry	1	BGK0386	11/10/23	11/13/23	EPA 6020B	
Barium	72.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.62	0.400	"	"	"	"	"	"	
Lead	5.54	0.200	"	"	"	"	"	"	
Nickel	4.03	0.400	"	"	"	"	"	"	
Silver	0.0314	0.0200	"	"	"	"	"	"	
Zinc	15.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0316	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	299	0.0500	mg/L dry	1	BGK0397	11/10/23	11/13/23	EPA 6020B	
Magnesium	19.6	0.0500	"	"	"	"	"	"	
Sodium	59.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.897	0.00100	units	1	BGK0555	11/15/23	11/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

SB-N 11FT
2311079-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.4		%	1	BGK0452	11/13/23	11/13/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.390	0.0100	mmhos/cm	1	BGK0428	11/13/23	11/13/23	EPA 120.1	

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

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.42		pH Units	1	BGK0427	11/13/23	11/13/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-N2 11FT
2311079-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.38	0.0020	mg/kg	1	BGK0176	11/06/23	11/07/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.14	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.39	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1100	50	"	100	"	"	11/07/23	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0625	156 %	50-150	"	"	"	11/07/23	"	S-02
Surrogate: Toluene-d8	0.0572	143 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	1.07	2670 %	50-150	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	590	50	mg/kg	1	BGK0178	11/06/23	11/07/23	EPA 8015M	
C28-C36 (ORO)	70	50	"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	5.99	47.9 %	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 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-N2 11FT
2311079-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0199	11/07/23	11/07/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0266	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0395	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.102	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0444	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.920	0.0500	"	10	"	"	11/09/23	"	
2-Methylnaphthalene	2.44	0.0500	"	"	"	"	"	"	E

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0292	87.7 %	40-150		"	"	11/07/23	"	
Surrogate: Fluoranthene-d10	0.0134	40.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0298	11/08/23	11/10/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/02/23 00:00**

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 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-N2 11FT
2311079-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.51	0.200	mg/kg dry	1	BGK0386	11/10/23	11/13/23	EPA 6020B	
Barium	82.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.00	0.400	"	"	"	"	"	"	
Lead	6.32	0.200	"	"	"	"	"	"	
Nickel	5.19	0.400	"	"	"	"	"	"	
Silver	0.0218	0.0200	"	"	"	"	"	"	
Zinc	14.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0316	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	81.9	0.0500	mg/L dry	1	BGK0397	11/10/23	11/13/23	EPA 6020B	
Magnesium	10.4	0.0500	"	"	"	"	"	"	
Sodium	69.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.92	0.00100	units	1	BGK0555	11/15/23	11/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

**SB-N2 11FT
 2311079-03 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.3		%	1	BGK0452	11/13/23	11/13/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.304	0.0100	mmhos/cm	1	BGK0428	11/13/23	11/13/23	EPA 120.1	

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

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BGK0427	11/13/23	11/13/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-N4 12FT
2311079-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK0176	11/06/23	11/07/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0484	121 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0419	105 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGK0178	11/06/23	11/07/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	5.79	46.3 %		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 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-N4 12FT
2311079-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0199	11/07/23	11/07/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0135	40.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0152	45.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0298	11/08/23	11/10/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-N4 12FT
2311079-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.84	0.200	mg/kg dry	1	BGK0386	11/10/23	11/13/23	EPA 6020B	
Barium	38.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.68	0.400	"	"	"	"	"	"	
Lead	3.55	0.200	"	"	"	"	"	"	
Nickel	2.70	0.400	"	"	"	"	"	"	
Silver	0.0254	0.0200	"	"	"	"	"	"	
Zinc	9.56	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0316	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.6	0.0500	mg/L dry	1	BGK0397	11/10/23	11/13/23	EPA 6020B	
Magnesium	6.47	0.0500	"	"	"	"	"	"	
Sodium	50.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.21	0.00100	units	1	BGK0555	11/15/23	11/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

SB-N4 12FT
2311079-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.4		%	1	BGK0452	11/13/23	11/13/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.270	0.0100	mmhos/cm	1	BGK0428	11/13/23	11/13/23	EPA 120.1	

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

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.76		pH Units	1	BGK0427	11/13/23	11/13/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-W 11FT
2311079-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK0176	11/06/23	11/07/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0058	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.0039	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0566	141 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0443	111 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0431	108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0178	11/06/23	11/07/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	5.77	46.1 %	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 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

SB-W 11FT
2311079-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0199	11/07/23	11/07/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.00949	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0130	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.00755	0.00500	"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0172	51.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0143	43.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0298	11/08/23	11/10/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/02/23 00:00**

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 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-W 11FT
2311079-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.79	0.200	mg/kg dry	1	BGK0386	11/10/23	11/13/23	EPA 6020B	
Barium	195	0.400	"	"	"	"	"	"	
Cadmium	0.314	0.200	"	"	"	"	"	"	
Copper	8.46	0.400	"	"	"	"	"	"	
Lead	10.8	0.200	"	"	"	"	"	"	
Nickel	5.91	0.400	"	"	"	"	"	"	
Silver	0.0528	0.0200	"	"	"	"	"	"	
Zinc	22.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0316	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.9	0.0500	mg/L dry	1	BGK0397	11/10/23	11/13/23	EPA 6020B	
Magnesium	7.36	0.0500	"	"	"	"	"	"	
Sodium	43.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.64	0.00100	units	1	BGK0555	11/15/23	11/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
 PO Box 1289
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Project: Noble - Kissler 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

SB-W 11FT
2311079-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	78.1	%	1	BGK0452	11/13/23	11/13/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/02/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.398	0.0100	mmhos/cm	1	BGK0428	11/13/23	11/13/23	EPA 120.1	

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

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BGK0427	11/13/23	11/13/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-S 12FT
2311079-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK0176	11/06/23	11/07/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0505	126 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0431	108 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGK0178	11/06/23	11/07/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.80	54.4 %		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 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

SB-S 12FT
2311079-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0199	11/07/23	11/07/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0134	40.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0183	55.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0298	11/08/23	11/10/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/02/23 00:00**

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 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-S 12FT
2311079-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.59	0.200	mg/kg dry	1	BGK0386	11/10/23	11/13/23	EPA 6020B	
Barium	269	0.400	"	"	"	"	"	"	
Cadmium	0.233	0.200	"	"	"	"	"	"	
Copper	6.57	0.400	"	"	"	"	"	"	
Lead	7.39	0.200	"	"	"	"	"	"	
Nickel	5.11	0.400	"	"	"	"	"	"	
Silver	0.0389	0.0200	"	"	"	"	"	"	
Zinc	16.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0316	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.2	0.0500	mg/L dry	1	BGK0397	11/10/23	11/13/23	EPA 6020B	
Magnesium	9.66	0.0500	"	"	"	"	"	"	
Sodium	40.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.61	0.00100	units	1	BGK0555	11/15/23	11/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/02/23 00:00

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 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

SB-S 12FT
2311079-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	84.3	%	1	BGK0452	11/13/23	11/13/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/02/23 00:00**

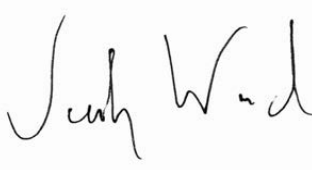
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.120	0.0100	mmhos/cm	1	BGK0428	11/13/23	11/13/23	EPA 120.1	

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

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.92		pH Units	1	BGK0427	11/13/23	11/13/23	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-E 11FT
2311079-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK0176	11/06/23	11/07/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.50	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.058	0.0050	"	"	"	"	"	"	
Naphthalene	0.13	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	13	0.50	"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0495	124 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0438	110 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0629	157 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	120	50	mg/kg	1	BGK0178	11/06/23	11/07/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	7.66	61.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
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Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-E 11FT
2311079-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0199	11/07/23	11/07/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.209	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.468	0.00500	"	"	"	"	"	"	E

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0216	64.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0189	56.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0298	11/08/23	11/10/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/02/23 00:00**

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 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-E 11FT
2311079-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.92	0.200	mg/kg dry	1	BGK0386	11/10/23	11/13/23	EPA 6020B	
Barium	62.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.44	0.400	"	"	"	"	"	"	
Lead	6.23	0.200	"	"	"	"	"	"	
Nickel	4.14	0.400	"	"	"	"	"	"	
Silver	0.0388	0.0200	"	"	"	"	"	"	
Zinc	15.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0316	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.3	0.0500	mg/L dry	1	BGK0397	11/10/23	11/13/23	EPA 6020B	
Magnesium	5.29	0.0500	"	"	"	"	"	"	
Sodium	3.62	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.177	0.00100	units	1	BGK0555	11/15/23	11/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Kissler 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

SB-E 11FT
2311079-07 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.5		%	1	BGK0452	11/13/23	11/13/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.419	0.0100	mmhos/cm	1	BGK0428	11/13/23	11/13/23	EPA 120.1	

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

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BGK0427	11/13/23	11/13/23	EPA 9045D	

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Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-E2 12FT
2311079-08 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK0176	11/06/23	11/07/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0500	125 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0427	107 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGK0178	11/06/23	11/07/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.03	48.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-E2 12FT
2311079-08 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0199	11/07/23	11/07/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0192	57.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0215	64.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0298	11/08/23	11/10/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

SB-E2 12FT
2311079-08 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.43	0.200	mg/kg dry	1	BGK0386	11/10/23	11/13/23	EPA 6020B	
Barium	56.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.64	0.400	"	"	"	"	"	"	
Lead	5.01	0.200	"	"	"	"	"	"	
Nickel	3.22	0.400	"	"	"	"	"	"	
Silver	0.0250	0.0200	"	"	"	"	"	"	
Zinc	13.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0316	11/08/23	11/13/23	EPA 7196A	

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

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.2	0.0500	mg/L dry	1	BGK0397	11/10/23	11/13/23	EPA 6020B	
Magnesium	7.21	0.0500	"	"	"	"	"	"	
Sodium	47.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/02/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.01	0.00100	units	1	BGK0555	11/15/23	11/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Kissler 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

**SB-E2 12FT
 2311079-08 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.3		%	1	BGK0452	11/13/23	11/13/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.149	0.0100	mmhos/cm	1	BGK0428	11/13/23	11/13/23	EPA 120.1	

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

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BGK0427	11/13/23	11/13/23	EPA 9045D	

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Project: Noble - Kissler 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

W1
2311079-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGK0186	11/06/23	11/08/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	4.5	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	55	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **11/02/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	12.1	91.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	99.5 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.6	102 %		21-167		"	"	"	"	

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PO Box 1289
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Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

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 BGK0176 - EPA 5030 Soil MS

Blank (BGK0176-BLK1)

Prepared & Analyzed: 11/06/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0506</i>		<i>"</i>	<i>0.0400</i>		<i>126</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0423</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0419</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>			

LCS (BGK0176-BS1)

Prepared & Analyzed: 11/06/23

Benzene	0.110	0.0020	mg/kg	0.100		110	70-130			
Toluene	0.107	0.0050	"	0.100		107	70-130			
Ethylbenzene	0.107	0.0050	"	0.100		107	70-130			
m,p-Xylene	0.213	0.010	"	0.200		106	70-130			
o-Xylene	0.0934	0.0050	"	0.100		93.4	70-130			
1,2,4-Trimethylbenzene	0.0984	0.0050	"	0.100		98.4	70-130			
1,3,5-Trimethylbenzene	0.0988	0.0050	"	0.100		98.8	70-130			
Naphthalene	0.118	0.0038	"	0.100		118	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0459</i>		<i>"</i>	<i>0.0400</i>		<i>115</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0421</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0390</i>		<i>"</i>	<i>0.0400</i>		<i>97.5</i>	<i>50-150</i>			

Matrix Spike (BGK0176-MS1)

Source: 2311062-12

Prepared & Analyzed: 11/06/23

Benzene	0.109	0.0020	mg/kg	0.100	ND	109	70-130			
Toluene	0.106	0.0050	"	0.100	ND	106	70-130			
Ethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130			
m,p-Xylene	0.207	0.010	"	0.200	ND	104	70-130			
o-Xylene	0.0905	0.0050	"	0.100	ND	90.5	70-130			
1,2,4-Trimethylbenzene	0.0921	0.0050	"	0.100	ND	92.1	70-130			
1,3,5-Trimethylbenzene	0.0936	0.0050	"	0.100	ND	93.6	70-130			
Naphthalene	0.100	0.0038	"	0.100	ND	100	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0489</i>		<i>"</i>	<i>0.0400</i>		<i>122</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0418</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>97.9</i>	<i>50-150</i>			

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PO Box 1289
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Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

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		

Batch BGK0176 - EPA 5030 Soil MS

Matrix Spike Dup (BGK0176-MSD1)

Source: 2311062-12

Prepared & Analyzed: 11/06/23

Benzene	0.108	0.0020	mg/kg	0.100	ND	108	70-130	1.44	30	
Toluene	0.105	0.0050	"	0.100	ND	105	70-130	0.256	30	
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	3.23	30	
m,p-Xylene	0.201	0.010	"	0.200	ND	101	70-130	2.89	30	
o-Xylene	0.0877	0.0050	"	0.100	ND	87.7	70-130	3.13	30	
1,2,4-Trimethylbenzene	0.0885	0.0050	"	0.100	ND	88.5	70-130	3.92	30	
1,3,5-Trimethylbenzene	0.0896	0.0050	"	0.100	ND	89.6	70-130	4.39	30	
Naphthalene	0.0917	0.0038	"	0.100	ND	91.7	70-130	9.09	30	
Surrogate: 1,2-Dichloroethane-d4	0.0484		"	0.0400		121	50-150			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	50-150			

Batch BGK0186 - EPA 5030 Water MS

Blank (BGK0186-BLK1)

Prepared: 11/06/23 Analyzed: 11/08/23

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3		105	23-173			
Surrogate: Toluene-d8	13.3		"	13.3		99.5	20-170			
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	21-167			

LCS (BGK0186-BS1)

Prepared: 11/06/23 Analyzed: 11/08/23

Benzene	33.2	1.0	ug/l	33.3		99.6	51-132			
Toluene	31.2	1.0	"	33.3		93.7	51-138			
Ethylbenzene	31.4	1.0	"	33.3		94.2	58-146			
m,p-Xylene	60.5	2.0	"	66.7		90.7	57-144			
o-Xylene	30.7	1.0	"	33.3		92.0	53-146			
Naphthalene	35.9	1.0	"	33.3		108	70-130			
1,2,4-Trimethylbenzene	30.2	1.0	"	33.3		90.8	70-130			
1,3,5-Trimethylbenzene	31.4	1.0	"	33.3		94.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3		106	23-173			
Surrogate: Toluene-d8	15.6		"	13.3		117	20-170			
Surrogate: 4-Bromofluorobenzene	15.9		"	13.3		119	21-167			

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PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

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 BGK0186 - EPA 5030 Water MS

Matrix Spike (BGK0186-MS1)

Source: 2311100-01

Prepared: 11/06/23 Analyzed: 11/08/23

Benzene	33.7	1.0	ug/l	33.3	ND	101	34-141			
Toluene	31.5	1.0	"	33.3	ND	94.6	27-151			
Ethylbenzene	32.1	1.0	"	33.3	ND	96.4	29-160			
m,p-Xylene	61.7	2.0	"	66.7	ND	92.5	20-166			
o-Xylene	31.2	1.0	"	33.3	ND	93.8	33-159			
Naphthalene	42.2	1.0	"	33.3	ND	127	70-130			
1,2,4-Trimethylbenzene	30.7	1.0	"	33.3	ND	92.0	70-130			
1,3,5-Trimethylbenzene	31.6	1.0	"	33.3	ND	94.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.8</i>		<i>"</i>	<i>13.3</i>		<i>111</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>15.7</i>		<i>"</i>	<i>13.3</i>		<i>118</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>16.3</i>		<i>"</i>	<i>13.3</i>		<i>122</i>	<i>21-167</i>			

Matrix Spike Dup (BGK0186-MSD1)

Source: 2311100-01

Prepared: 11/06/23 Analyzed: 11/08/23

Benzene	34.1	1.0	ug/l	33.3	ND	102	34-141	1.00	30
Toluene	39.4	1.0	"	33.3	ND	118	27-151	22.2	30
Ethylbenzene	35.0	1.0	"	33.3	ND	105	29-160	8.70	30
m,p-Xylene	68.0	2.0	"	66.7	ND	102	20-166	9.81	30
o-Xylene	35.2	1.0	"	33.3	ND	105	33-159	11.7	30
Naphthalene	31.4	1.0	"	33.3	ND	94.4	70-130	29.2	30
1,2,4-Trimethylbenzene	34.3	1.0	"	33.3	ND	103	70-130	11.2	30
1,3,5-Trimethylbenzene	34.7	1.0	"	33.3	ND	104	70-130	9.44	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>19.4</i>		<i>"</i>	<i>13.3</i>		<i>146</i>	<i>23-173</i>		
<i>Surrogate: Toluene-d8</i>	<i>17.4</i>		<i>"</i>	<i>13.3</i>		<i>131</i>	<i>20-170</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>18.7</i>		<i>"</i>	<i>13.3</i>		<i>141</i>	<i>21-167</i>		

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGK0178 - EPA 3550A

Blank (BGK0178-BLK1)

Prepared & Analyzed: 11/06/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	10.3		"	12.5		82.1		30-150			

LCS (BGK0178-BS1)

Prepared & Analyzed: 11/06/23

C10-C28 (DRO)	458	50	mg/kg	500		91.7		70-130			
Surrogate: <i>o</i> -Terphenyl	9.58		"	12.5		76.6		30-150			

Matrix Spike (BGK0178-MS1)

Source: 2311062-12

Prepared & Analyzed: 11/06/23

C10-C28 (DRO)	424	50	mg/kg	500	8.29	83.1		70-130			
Surrogate: <i>o</i> -Terphenyl	7.75		"	12.5		62.0		30-150			

Matrix Spike Dup (BGK0178-MSD1)

Source: 2311062-12

Prepared & Analyzed: 11/06/23

C10-C28 (DRO)	499	50	mg/kg	500	8.29	98.1		70-130	16.3	20	
Surrogate: <i>o</i> -Terphenyl	8.86		"	12.5		70.9		30-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

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 BGK0199 - EPA 5030 Soil MS

Blank (BGK0199-BLK1)

Prepared & Analyzed: 11/07/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0244</i>		"	<i>0.0333</i>		<i>73.2</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0299</i>		"	<i>0.0333</i>		<i>89.7</i>		<i>40-150</i>		

LCS (BGK0199-BS1)

Prepared & Analyzed: 11/07/23

Acenaphthene	0.0262	0.00500	mg/kg	0.0333		78.7		31-137		
Anthracene	0.0303	0.00500	"	0.0333		90.9		30-120		
Benzo (a) anthracene	0.0281	0.00500	"	0.0333		84.4		30-120		
Benzo (a) pyrene	0.0271	0.00500	"	0.0333		81.4		30-120		
Benzo (b) fluoranthene	0.0289	0.00500	"	0.0333		86.6		30-120		
Benzo (k) fluoranthene	0.0316	0.00500	"	0.0333		94.8		30-120		
Chrysene	0.0315	0.00500	"	0.0333		94.5		30-120		
Dibenz (a,h) anthracene	0.0219	0.00500	"	0.0333		65.6		30-120		
Fluoranthene	0.0302	0.00500	"	0.0333		90.6		30-120		
Fluorene	0.0286	0.00500	"	0.0333		85.7		30-120		
Indeno (1,2,3-cd) pyrene	0.0293	0.00500	"	0.0333		87.9		30-120		
Pyrene	0.0321	0.00500	"	0.0333		96.2		35-142		
1-Methylnaphthalene	0.0304	0.00500	"	0.0333		91.1		35-142		
2-Methylnaphthalene	0.0317	0.00500	"	0.0333		95.2		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0237</i>		"	<i>0.0333</i>		<i>71.2</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0304</i>		"	<i>0.0333</i>		<i>91.3</i>		<i>40-150</i>		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

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 BGK0199 - EPA 5030 Soil MS

Matrix Spike (BGK0199-MS1)

Source: 2311048-01

Prepared & Analyzed: 11/07/23

Acenaphthene	0.0138	0.00500	mg/kg	0.0333	ND	41.5	31-137			
Anthracene	0.0162	0.00500	"	0.0333	ND	48.6	30-120			
Benzo (a) anthracene	0.0154	0.00500	"	0.0333	ND	46.2	30-120			
Benzo (a) pyrene	0.0155	0.00500	"	0.0333	ND	46.6	30-120			
Benzo (b) fluoranthene	0.0137	0.00500	"	0.0333	ND	41.2	30-120			
Benzo (k) fluoranthene	0.0146	0.00500	"	0.0333	ND	43.9	30-120			
Chrysene	0.0155	0.00500	"	0.0333	ND	46.5	30-120			
Dibenz (a,h) anthracene	0.0140	0.00500	"	0.0333	ND	42.1	30-120			
Fluoranthene	0.0152	0.00500	"	0.0333	ND	45.6	30-120			
Fluorene	0.0151	0.00500	"	0.0333	ND	45.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0166	0.00500	"	0.0333	ND	49.9	30-120			
Pyrene	0.0163	0.00500	"	0.0333	ND	48.9	35-142			
1-Methylnaphthalene	0.0155	0.00500	"	0.0333	ND	46.5	15-130			
2-Methylnaphthalene	0.0171	0.00500	"	0.0333	ND	51.4	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0135		"	0.0333		40.4	40-150			
Surrogate: Fluoranthene-d10	0.0161		"	0.0333		48.4	40-150			

Matrix Spike Dup (BGK0199-MSD1)

Source: 2311048-01

Prepared & Analyzed: 11/07/23

Acenaphthene	0.0166	0.00500	mg/kg	0.0333	ND	49.9	31-137	18.4	30
Anthracene	0.0142	0.00500	"	0.0333	ND	42.7	30-120	12.9	30
Benzo (a) anthracene	0.0135	0.00500	"	0.0333	ND	40.6	30-120	12.9	30
Benzo (a) pyrene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	5.00	30
Benzo (b) fluoranthene	0.0144	0.00500	"	0.0333	ND	43.1	30-120	4.44	30
Benzo (k) fluoranthene	0.0154	0.00500	"	0.0333	ND	46.3	30-120	5.13	30
Chrysene	0.0134	0.00500	"	0.0333	ND	40.3	30-120	14.5	30
Dibenz (a,h) anthracene	0.0134	0.00500	"	0.0333	ND	40.3	30-120	4.42	30
Fluoranthene	0.0143	0.00500	"	0.0333	ND	42.9	30-120	5.98	30
Fluorene	0.0135	0.00500	"	0.0333	ND	40.4	30-120	11.7	30
Indeno (1,2,3-cd) pyrene	0.0135	0.00500	"	0.0333	ND	40.6	30-120	20.4	30
Pyrene	0.0147	0.00500	"	0.0333	ND	44.1	35-142	10.4	30
1-Methylnaphthalene	0.0151	0.00500	"	0.0333	ND	45.3	15-130	2.77	50
2-Methylnaphthalene	0.0166	0.00500	"	0.0333	ND	49.9	15-130	2.86	50
Surrogate: 2-Methylnaphthalene-d10	0.0135		"	0.0333		40.5	40-150		
Surrogate: Fluoranthene-d10	0.0150		"	0.0333		45.1	40-150		

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

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

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

Batch BGK0298 - EPA 3050B

Blank (BGK0298-BLK1)		Prepared: 11/08/23 Analyzed: 11/09/23								
Boron	ND	2.00	mg/L							
LCS (BGK0298-BS1)		Prepared: 11/08/23 Analyzed: 11/09/23								
Boron	4.89	2.00	mg/L	5.00		97.8	80-120			
Duplicate (BGK0298-DUP1)		Source: 2311037-01		Prepared: 11/08/23 Analyzed: 11/09/23						
Boron	0.660	2.00	mg/L		0.618			6.62	20	
Matrix Spike (BGK0298-MS1)		Source: 2311037-01		Prepared: 11/08/23 Analyzed: 11/09/23						
Boron	5.86	2.00	mg/L	5.00	0.618	105	75-125			
Matrix Spike Dup (BGK0298-MSD1)		Source: 2311037-01		Prepared: 11/08/23 Analyzed: 11/10/23						
Boron	5.76	2.00	mg/L	5.00	0.618	103	75-125	1.69	25	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

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 BGK0386 - EPA 3050B

Blank (BGK0386-BLK1)

Prepared: 11/10/23 Analyzed: 11/13/23

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 (BGK0386-BS1)

Prepared: 11/10/23 Analyzed: 11/13/23

Arsenic	43.9	0.200	mg/kg wet	40.0	110	80-120
Barium	44.1	0.400	"	40.0	110	80-120
Cadmium	2.01	0.200	"	2.00	101	80-120
Copper	40.0	0.400	"	40.0	99.9	80-120
Lead	20.5	0.200	"	20.0	102	80-120
Nickel	39.9	0.400	"	40.0	99.8	80-120
Silver	1.95	0.0200	"	2.00	97.3	80-120
Zinc	38.2	0.400	"	40.0	95.4	80-120
Selenium	4.01	0.260	"	4.00	100	80-120

Duplicate (BGK0386-DUP1)

Source: 2311077-01

Prepared: 11/10/23 Analyzed: 11/13/23

Arsenic	3.33	0.200	mg/kg dry	11.2	109	20	QR-04
Barium	117	0.400	"	42.0	94.3	20	QR-04
Cadmium	0.154	0.200	"	0.144	6.72	20	
Copper	2.88	0.400	"	7.01	83.5	20	QR-01
Lead	4.39	0.200	"	12.8	98.0	20	QR-04
Nickel	3.02	0.400	"	7.90	89.3	20	QR-01
Silver	0.0190	0.0200	"	0.0509	91.2	20	QR-01
Zinc	10.1	0.400	"	29.7	98.5	20	QR-04
Selenium	ND	0.260	"	0.423	200	20	QR-01

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

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 BGK0386 - EPA 3050B

Matrix Spike (BGK0386-MS1)

Source: 2311077-01

Prepared: 11/10/23 Analyzed: 11/13/23

Arsenic	54.5	0.200	mg/kg dry	47.6	11.2	91.0	75-125			
Barium	149	0.400	"	47.6	42.0	226	75-125			QM-07
Cadmium	2.37	0.200	"	2.38	0.144	93.6	75-125			
Copper	34.5	0.400	"	47.6	7.01	57.9	75-125			QM-07
Lead	26.1	0.200	"	23.8	12.8	55.7	75-125			QM-07
Nickel	35.8	0.400	"	47.6	7.90	58.6	75-125			QM-07
Silver	2.19	0.0200	"	2.38	0.0509	90.0	75-125			
Zinc	41.1	0.400	"	47.6	29.7	23.9	75-125			QM-07
Selenium	8.51	0.260	"	4.76	0.423	170	75-125			QM-07

Matrix Spike Dup (BGK0386-MSD1)

Source: 2311077-01

Prepared: 11/10/23 Analyzed: 11/13/23

Arsenic	49.8	0.200	mg/kg dry	47.6	11.2	81.1	75-125	9.03	25	
Barium	135	0.400	"	47.6	42.0	196	75-125	9.98	25	QM-07
Cadmium	2.17	0.200	"	2.38	0.144	85.1	75-125	8.91	25	
Copper	32.1	0.400	"	47.6	7.01	52.7	75-125	7.33	25	QM-07
Lead	23.8	0.200	"	23.8	12.8	46.2	75-125	9.08	25	QM-07
Nickel	33.2	0.400	"	47.6	7.90	53.2	75-125	7.39	25	QM-07
Silver	2.09	0.0200	"	2.38	0.0509	85.6	75-125	4.94	25	
Zinc	38.3	0.400	"	47.6	29.7	17.9	75-125	7.16	25	QM-07
Selenium	7.99	0.260	"	4.76	0.423	159	75-125	6.31	25	QM-07

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

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 BGK0316 - 3060A Mod

Blank (BGK0316-BLK1)

Prepared: 11/08/23 Analyzed: 11/13/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGK0316-BS1)

Prepared: 11/08/23 Analyzed: 11/13/23

Chromium, Hexavalent 26.8 0.30 mg/kg wet 25.0 107 80-120

Duplicate (BGK0316-DUP1)

Source: 2311079-01

Prepared: 11/08/23 Analyzed: 11/13/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGK0316-MS1)

Source: 2311079-01

Prepared: 11/08/23 Analyzed: 11/13/23

Chromium, Hexavalent 32.3 0.30 mg/kg dry 31.6 ND 102 75-125

Matrix Spike Dup (BGK0316-MSD1)

Source: 2311079-01

Prepared: 11/08/23 Analyzed: 11/13/23

Chromium, Hexavalent 31.3 0.30 mg/kg dry 31.6 ND 99.0 75-125 2.99 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

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 BGK0397 - General Preparation

Blank (BGK0397-BLK1)

Prepared: 11/10/23 Analyzed: 11/13/23

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

LCS (BGK0397-BS1)

Prepared: 11/10/23 Analyzed: 11/13/23

Calcium	5.16	0.0500	mg/L wet	5.00		103	70-130			
Magnesium	5.25	0.0500	"	5.00		105	70-130			
Sodium	5.28	0.0500	"	5.00		106	70-130			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

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

Summit Scientific

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

Batch BGK0452 - General Preparation


Duplicate (BGK0452-DUP1)

Source: 2311070-01

Prepared & Analyzed: 11/13/23

% Solids	84.0		%		84.6			0.814	20	
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

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

Summit Scientific

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

Batch BGK0428 - General Preparation

Blank (BGK0428-BLK1)

Prepared & Analyzed: 11/13/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGK0428-BS1)

Prepared & Analyzed: 11/13/23

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

Duplicate (BGK0428-DUP1)

Source: 2310378-02

Prepared & Analyzed: 11/13/23

Specific Conductance (EC) 0.716 0.0100 mmhos/cm 0.716 0.00 20

Summit Scientific

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/15/23 12:01

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 BGK0427 - General Preparation

LCS (BGK0427-BS1)

Prepared & Analyzed: 11/13/23

pH	9.10	pH Units	9.18	99.1	95-105
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Duplicate (BGK0427-DUP1)

Source: 2310378-02

Prepared & Analyzed: 11/13/23

pH	7.97	pH Units	7.97	0.00	20
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Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Kissler 3X

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/15/23 12:01

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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