

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
KERBS K20-06, WELD COUNTY, COLORADO
REM # 23578

Sample ID	Sample Date	Depth	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude	Longitude		
FL01-2FT	06/07/2024	2Ft	40.2989671	-104.80522	0.9	3.2
FL05-3FT	06/07/2024	3Ft	40.2990472	-104.80733	0.9	0.8
BKG01	06/07/2024	2Ft, 3Ft	40.2990352	-104.80525	0.8	0.0
BKG02	06/07/2024	2Ft, 3Ft	40.2990831	-104.80729	0.90	0.0

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

ft. = Feet

bgs = Below ground surface

 = Source material characterization sample, excavated and transported off site for disposal.

 = Material excavated and transported off site for disposal.

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
KERBS K20-06, WELD COUNTY, COLORADO
REM # 23578

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 (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
FL01-2FT	06/07/2024	2Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
FL05-3FT	06/07/2024	3Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50

1. Bold values exceed the ECMC Table 915-1 limit(s)
 2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
 3. * Indicates laboratory minimum detection limit in excess of SSL
 4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg
- NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
KERBS K20-06, WELD COUNTY, COLORADO
REM # 23578

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FL01-2FT	06/07/2024	2Ft	0.0171	0.0248	0.0279	0.0193	0.0280	0.0110	0.0264	<0.00500	0.0721	0.0176	0.0157	0.0676	<0.00500	<0.00500
FL05-3FT	06/07/2024	3Ft	0.00661	0.0122	0.00544	0.0102	0.0149	0.0061	0.0147	<0.00500	0.0389	0.00724	0.00816	0.0349	<0.00500	<0.00500

1. Bold values exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. * Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
KERBS K20-06, WELD COUNTY, COLORADO
REM # 23578

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FL01-2FT	06/07/2024	2Ft	8.69	0.380	1.78	<2.00
FL05-3FT	06/07/2024	3Ft	7.09	0.117	0.370	<2.00
BKG01-2FT	06/07/2024	2Ft	7.44	0.101	0.569	<2.00
BKG01-3FT	06/07/2024	3Ft	7.38	0.218	0.870	<2.00
BKG02-2FT	06/07/2024	2Ft	6.76	0.104	0.503	<2.00
BKG02-3FT	06/07/2024	3Ft	6.98	0.0923	0.425	<2.00
Maximum Root Background Concentration (0 - 3 ft)			7.44	0.218	0.870	<2.00
Average Root Background Concentration (0 - 3 ft)			7.14	0.129	0.592	<2.00
Maximum Background Concentration			7.44	0.218	0.870	<2.00
Average Background Concentration			7.08	0.136	0.597	<2.00

1. Bold faced values exceed the ECMC Table 915-1 limit(s)
2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
KERBS K20-06, WELD COUNTY, COLORADO
REM # 23578

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
FL01-2FT	06/07/2024	2Ft	1.81	62.4	<0.200	<0.30	5.92	6.78	4.31	<0.260	0.0553	21.4
FL05-3FT	06/07/2024	3Ft	1.10	38.2	<0.200	<0.30	3.27	3.56	3.02	<0.260	<0.0200	13.8
BKG01-2FT	06/07/2024	2Ft	2.61	60.6	0.260	<0.30	10.1	9.61	4.46	<0.260	0.0504	26.3
BKG01-3FT	06/07/2024	3Ft	3.05	86.6	0.235	<0.30	7.54	8.03	7.01	<0.260	0.0608	30.2
BKG02-2FT	06/07/2024	2Ft	2.06	58.8	0.236	<0.30	8.75	9.08	4.56	<0.260	0.0803	34.6
BKG02-3FT	06/07/2024	3Ft	1.40	48.0	<0.200	<0.30	6.04	6.03	3.64	<0.260	0.0459	24.0
Maximum Root Zone Background Concentration (0 - 3 ft)			3.05	86.6	0.260	<0.30	10.1	9.61	7.01	<0.260	0.0803	34.6
125% Average Root Zone Background Concentration (0 - 3 ft)			2.85	79.4	0.305	<0.30	10.1	10.2	6.15	<0.260	0.0742	36.0
Maximum Background Concentration			3.05	86.6	0.260	<0.30	10.1	9.61	7.01	<0.260	0.0803	34.6
125% Average Background Concentration			2.85	79.4	0.305	<0.30	10.1	10.2	6.15	<0.260	0.0742	36.0

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

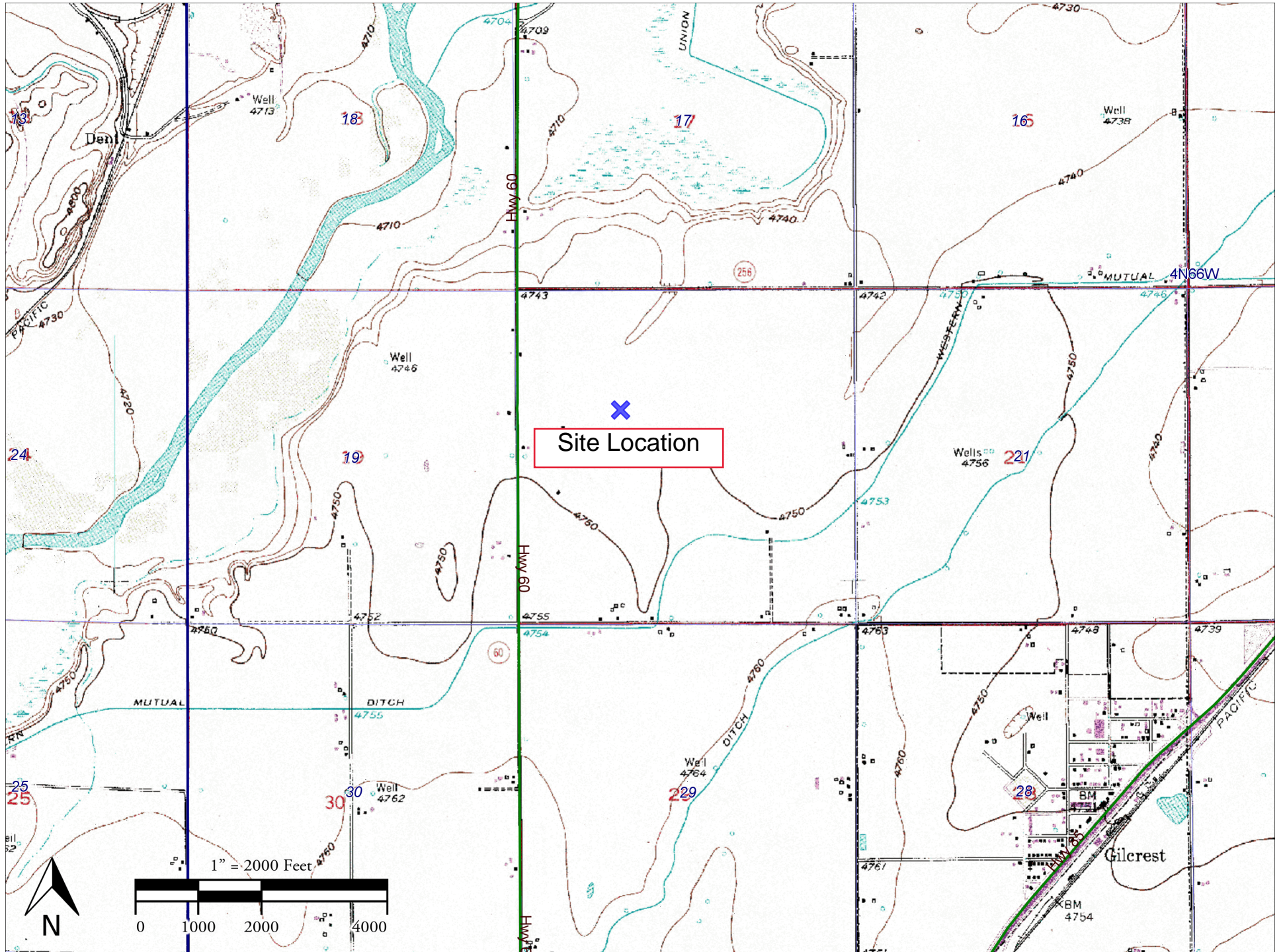
* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

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= Material excavated and transported off site for disposal.

Kerbs K20-06

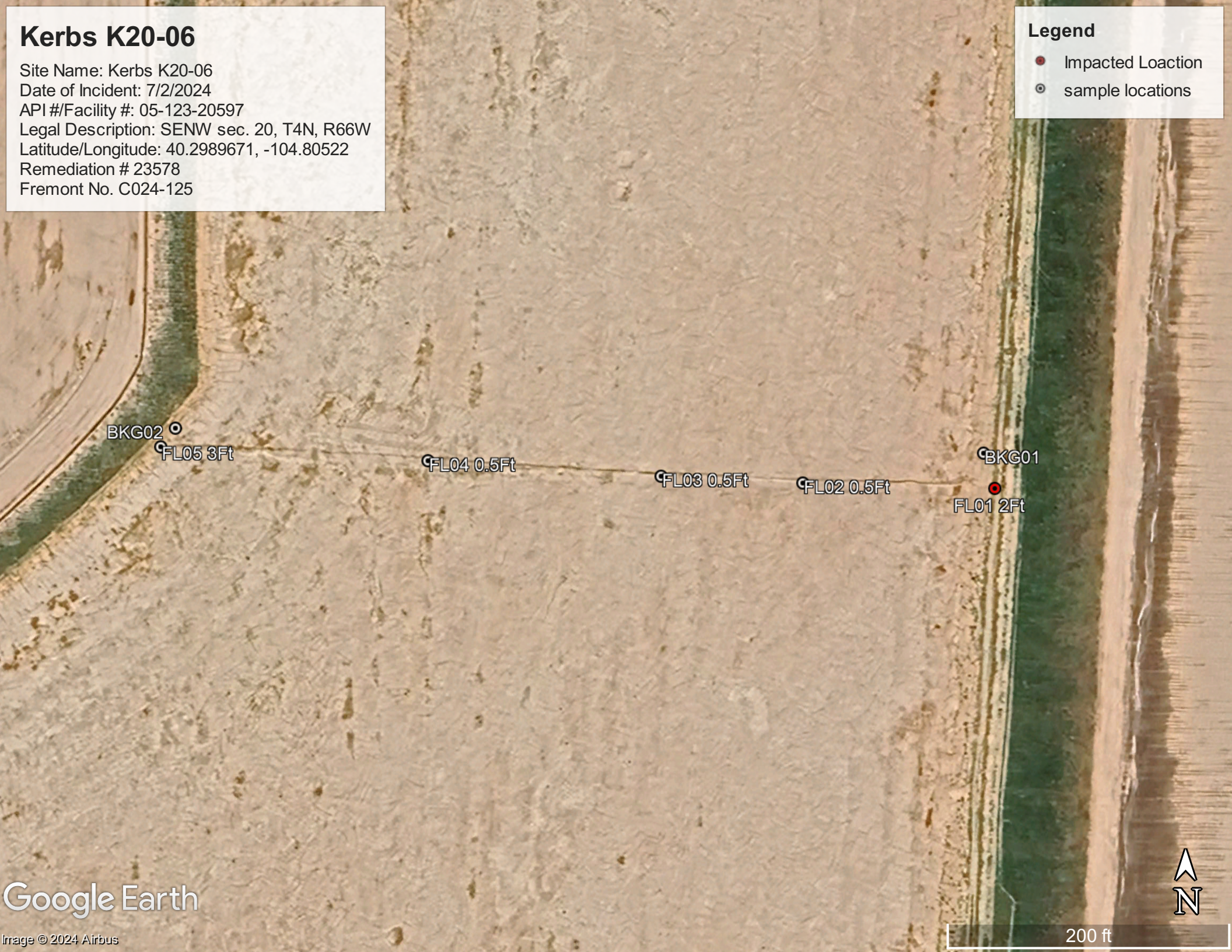


Kerbs K20-06

Site Name: Kerbs K20-06
Date of Incident: 7/2/2024
API #/Facility #: 05-123-20597
Legal Description: SENW sec. 20, T4N, R66W
Latitude/Longitude: 40.2989671, -104.80522
Remediation # 23578
Fremont No. C024-125

Legend

- Impacted Location
- sample locations





Description:

#4-FL01-2Ft- No visual staining or odor

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

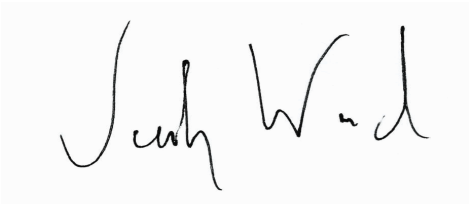
303.277.9310

July 02, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Kerbs K20-06
Work Order #2406109

Enclosed are the results of analyses for samples received by Summit Scientific on 06/07/24 16:40. 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 "w" at the end of the last name.

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kerbs K20-06

Project Number: UWRWE-A1000-ABN

Project Manager: Paul Henchan

Reported:
07/02/24 09:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-2FT	2406109-01	Soil	06/07/24 10:30	06/07/24 16:40
FL05-3FT	2406109-02	Soil	06/07/24 11:40	06/07/24 16:40

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.



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

Lab ID	Page 1 of 1
2406109	

		Send Data To:	Send Invoice To:
Client: Fremont Environmental		Project Manager: Paul Henehan	Company: Noble
Address:		E-Mail: Fremont Distribution List	Project Name/Location:
City/State/Zip:			AFE#:
Phone: 303-261-6246	Project Name: Herbs K20-06		PO/Billing Codes: UWRWE-A1000-ABV
Sampler Name: Stanley Gilbert		Project Number:	Contact: Mike Montoya

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested							Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate
1	FL01-2P4	6/7/24	10:30	2			X			X			X	X	X	X	X		
2	FL05-3P4	6/7/24	11:40	2			X			X			X	X	X	X	X		
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by:	Date/Time: 6/7/24 15:40	Received by: Summit North	Date/Time: 6/7/24 15:40	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time: 6/7/24 15:40	Received by:	Date/Time: 6/7/24 15:40	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: 14.7	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2406109

Client: Fremont Client Project ID: Kerbs K20-06

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

Grid of boxes for shipping information

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

Temp (°C) 14.7 Thermometer # 1

Table with 4 columns: Yes, No, N/A, Comments (if any). Rows include questions about cooling, custody seals, sample volume, and preservation.

Additional Comments (if any):

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

AS Date/Time 6/7/24



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kerbs K20-06
Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
07/02/24 09:11

FL01-2FT
2406109-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/07/24 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHF0251	06/10/24	06/11/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **06/07/24 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0369	92.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0377	94.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/07/24 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHF0252	06/10/24	06/11/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/07/24 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.26	66.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Wellington CO, 80549

Project: Noble - Kerbs K20-06
Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
07/02/24 09:11

FL01-2FT
2406109-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/07/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0171	0.00500	mg/kg	1	BHF0277	06/11/24	06/12/24	EPA 8270D SIM	
Anthracene	0.0248	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0279	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0193	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0280	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0110	0.00500	"	"	"	"	"	"	
Chrysene	0.0264	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0721	0.00500	"	"	"	"	"	"	
Fluorene	0.0176	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0157	0.00500	"	"	"	"	"	"	
Pyrene	0.0676	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/07/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0239	71.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0231	69.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/07/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0336	06/12/24	06/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/07/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.81	0.200	mg/kg dry	1	BHF0289	06/11/24	06/14/24	EPA 6020B	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Kerbs K20-06
Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
07/02/24 09:11

FL01-2FT
2406109-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	62.4	0.400	mg/kg dry	1	BHF0289	06/11/24	06/14/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.92	0.400	"	"	"	"	"	"	
Lead	6.78	0.200	"	"	"	"	"	"	
Nickel	4.31	0.400	"	"	"	"	"	"	
Silver	0.0553	0.0200	"	"	"	"	"	"	
Zinc	21.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/07/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0283	06/11/24	06/11/24	EPA 7196A	

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

Date Sampled: **06/07/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	27.4	0.0500	mg/L dry	1	BHF0346	06/12/24	06/14/24	EPA 6020B	
Magnesium	4.01	0.0500	"	"	"	"	"	"	
Sodium	37.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/07/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.78	0.00100	units	1	BHF0428	06/14/24	06/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/07/24 10:30**

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

Project: Noble - Kerbs K20-06
 Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 07/02/24 09:11

FL01-2FT
2406109-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

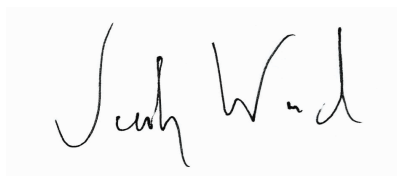
% Solids	97.5	%	1	BHF0291	06/11/24	06/11/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/07/24 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.380	0.0100	mmhos/cm	1	BHF0347	06/12/24	06/13/24	EPA 120.1	

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kerbs K20-06

Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 07/02/24 09:11

FL01-2FT
2406109-01 (Soil)


Summit Scientific

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

Date Sampled: **06/07/24 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.69		pH Units	1	BHF0549	06/12/24	06/20/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Kerbs K20-06
Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
07/02/24 09:11

FL05-3FT
2406109-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHF0251	06/10/24	06/11/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0386	96.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHF0252	06/10/24	06/11/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.0	96.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Kerbs K20-06
Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
07/02/24 09:11

FL05-3FT
2406109-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **06/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.00661	0.00500	mg/kg	1	BHF0277	06/11/24	06/12/24	EPA 8270D SIM	
Anthracene	0.0122	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0102	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0149	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00610	0.00500	"	"	"	"	"	"	
Chrysene	0.0147	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0389	0.00500	"	"	"	"	"	"	
Fluorene	0.00724	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.00816	0.00500	"	"	"	"	"	"	
Pyrene	0.0349	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0270	80.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0252	75.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0336	06/12/24	06/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.10	0.200	mg/kg dry	1	BHF0289	06/11/24	06/14/24	EPA 6020B	
Barium	38.2	0.400	"	"	"	"	"	"	

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Project: Noble - Kerbs K20-06

Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
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FL05-3FT
2406109-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cadmium	ND	0.200	mg/kg dry	1	BHF0289	06/11/24	06/14/24	EPA 6020B	
Copper	3.27	0.400	"	"	"	"	"	"	
Lead	3.56	0.200	"	"	"	"	"	"	
Nickel	3.02	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	13.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0283	06/11/24	06/11/24	EPA 7196A	

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

Date Sampled: **06/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.5	0.0500	mg/L dry	1	BHF0346	06/12/24	06/14/24	EPA 6020B	
Magnesium	6.64	0.0500	"	"	"	"	"	"	
Sodium	8.45	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.370	0.00100	units	1	BHF0428	06/14/24	06/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.9		%	1	BHF0291	06/11/24	06/11/24	Calculation	

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2406109-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/07/24 11:40**

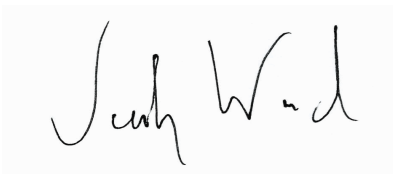
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.117	0.0100	mmhos/cm	1	BHF0347	06/12/24	06/13/24	EPA 120.1	

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

Date Sampled: **06/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.09		pH Units	1	BHF0348	06/12/24	06/13/24	EPA 9045D	

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 Project Manager: Paul Henchan

Reported:
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FL05-3FT
2406109-02 (Soil)

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PAH by EPA Method 8270D SIM

I-04, O-04, O-05


Date Sampled: **06/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (a) anthracene	0.00544	0.00500	mg/kg	1	BHF0781	06/25/24	06/25/24	EPA 8270D SIM	

Date Sampled: **06/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0215	64.5 %	40-150		"	"	"	"	
<i>Surrogate: Fluoranthene-d10</i>	0.0208	62.5 %	40-150		"	"	"	"	

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Project: Noble - Kerbs K20-06

Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
07/02/24 09:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BHF0251 - EPA 5030 Soil MS

Blank (BHF0251-BLK1)

Prepared & Analyzed: 06/10/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0495</i>		<i>"</i>	<i>0.0400</i>		<i>124</i>		<i>50-150</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0422</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>		<i>50-150</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0444</i>		<i>"</i>	<i>0.0400</i>		<i>111</i>		<i>50-150</i>		

LCS (BHF0251-BS1)

Prepared & Analyzed: 06/10/24

Benzene	0.0983	0.0020	mg/kg	0.100		98.3		70-130		
Toluene	0.109	0.0050	"	0.100		109		70-130		
Ethylbenzene	0.107	0.0050	"	0.100		107		70-130		
m,p-Xylene	0.213	0.010	"	0.200		107		70-130		
o-Xylene	0.106	0.0050	"	0.100		106		70-130		
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.100		104		70-130		
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100		103		70-130		
Naphthalene	0.0941	0.0038	"	0.100		94.1		70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0415</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>		<i>50-150</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>		<i>50-150</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0395</i>		<i>"</i>	<i>0.0400</i>		<i>98.8</i>		<i>50-150</i>		

Matrix Spike (BHF0251-MS1)

Source: 2405451-02

Prepared & Analyzed: 06/10/24

Benzene	0.103	0.0020	mg/kg	0.100	ND	103		70-130		
Toluene	0.113	0.0050	"	0.100	ND	113		70-130		
Ethylbenzene	0.108	0.0050	"	0.100	ND	108		70-130		
m,p-Xylene	0.217	0.010	"	0.200	ND	108		70-130		
o-Xylene	0.106	0.0050	"	0.100	ND	106		70-130		
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.100	ND	104		70-130		
1,3,5-Trimethylbenzene	0.105	0.0050	"	0.100	ND	105		70-130		
Naphthalene	0.101	0.0038	"	0.100	ND	101		70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0422</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>		<i>50-150</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0412</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>		<i>50-150</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.5</i>		<i>50-150</i>		

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Project: Noble - Kerbs K20-06
 Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 07/02/24 09:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BHF0251 - EPA 5030 Soil MS

Matrix Spike Dup (BHF0251-MSD1)	Source: 2405451-02			Prepared & Analyzed: 06/10/24						
Benzene	0.100	0.0020	mg/kg	0.100	ND	100	70-130	3.06	30	
Toluene	0.110	0.0050	"	0.100	ND	110	70-130	2.66	30	
Ethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130	1.00	30	
m,p-Xylene	0.215	0.010	"	0.200	ND	108	70-130	0.806	30	
o-Xylene	0.105	0.0050	"	0.100	ND	105	70-130	0.908	30	
1,2,4-Trimethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	1.77	30	
1,3,5-Trimethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	0.343	30	
Naphthalene	0.0966	0.0038	"	0.100	ND	96.6	70-130	4.14	30	
Surrogate: 1,2-Dichloroethane-d4	0.0415		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0419		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.7	50-150			

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Project: Noble - Kerbs K20-06
Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
07/02/24 09:11

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 BHF0252 - EPA 3550A

Blank (BHF0252-BLK1)

Prepared & Analyzed: 06/10/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.3		"	12.5		115		30-150			

LCS (BHF0252-BS1)

Prepared & Analyzed: 06/10/24

C10-C28 (DRO)	439	50	mg/kg	500		87.8		70-130			
Surrogate: <i>o</i> -Terphenyl	12.8		"	12.5		102		30-150			

Matrix Spike (BHF0252-MS1)

Source: 2405451-02

Prepared & Analyzed: 06/10/24

C10-C28 (DRO)	446	50	mg/kg	500	10.1	87.1		70-130			
Surrogate: <i>o</i> -Terphenyl	12.3		"	12.5		98.8		30-150			

Matrix Spike Dup (BHF0252-MSD1)

Source: 2405451-02

Prepared & Analyzed: 06/10/24

C10-C28 (DRO)	476	50	mg/kg	500	10.1	93.2		70-130	6.55	20	
Surrogate: <i>o</i> -Terphenyl	11.7		"	12.5		93.6		30-150			

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Reported:
07/02/24 09:11

PAH by EPA Method 8270D SIM - Quality Control
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Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BHF0277 - EPA 5030 Soil MS

Blank (BHF0277-BLK1)

Prepared & Analyzed: 06/11/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0317</i>		"	<i>0.0333</i>		<i>95.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0365</i>		"	<i>0.0333</i>		<i>110</i>	<i>40-150</i>			

LCS (BHF0277-BS1)

Prepared & Analyzed: 06/11/24

Acenaphthene	0.0215	0.00500	mg/kg	0.0333	64.4	31-137
Anthracene	0.0229	0.00500	"	0.0333	68.8	30-120
Benzo (a) anthracene	0.0234	0.00500	"	0.0333	70.3	30-120
Benzo (a) pyrene	0.0210	0.00500	"	0.0333	63.1	30-120
Benzo (b) fluoranthene	0.0211	0.00500	"	0.0333	63.3	30-120
Benzo (k) fluoranthene	0.0207	0.00500	"	0.0333	62.1	30-120
Chrysene	0.0223	0.00500	"	0.0333	67.0	30-120
Dibenz (a,h) anthracene	0.0191	0.00500	"	0.0333	57.2	30-120
Fluoranthene	0.0229	0.00500	"	0.0333	68.6	30-120
Fluorene	0.0218	0.00500	"	0.0333	65.5	30-120
Indeno (1,2,3-cd) pyrene	0.0204	0.00500	"	0.0333	61.3	30-120
Pyrene	0.0256	0.00500	"	0.0333	76.9	35-142
1-Methylnaphthalene	0.0213	0.00500	"	0.0333	64.0	35-142
2-Methylnaphthalene	0.0210	0.00500	"	0.0333	63.1	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0223</i>		"	<i>0.0333</i>	<i>66.8</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0251</i>		"	<i>0.0333</i>	<i>75.4</i>	<i>40-150</i>

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Project: Noble - Kerbs K20-06
Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
07/02/24 09:11

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 BHF0277 - EPA 5030 Soil MS

Matrix Spike (BHF0277-MS1)	Source: 2406082-01			Prepared & Analyzed: 06/11/24						
Acenaphthene	0.0158	0.00500	mg/kg	0.0333	ND	47.4	31-137			
Anthracene	0.0165	0.00500	"	0.0333	ND	49.6	30-120			
Benzo (a) anthracene	0.0171	0.00500	"	0.0333	ND	51.4	30-120			
Benzo (a) pyrene	0.0150	0.00500	"	0.0333	ND	45.1	30-120			
Benzo (b) fluoranthene	0.0150	0.00500	"	0.0333	ND	45.0	30-120			
Benzo (k) fluoranthene	0.0145	0.00500	"	0.0333	ND	43.4	30-120			
Chrysene	0.0164	0.00500	"	0.0333	ND	49.1	30-120			
Dibenz (a,h) anthracene	0.0152	0.00500	"	0.0333	ND	45.7	30-120			
Fluoranthene	0.0181	0.00500	"	0.0333	ND	54.2	30-120			
Fluorene	0.0160	0.00500	"	0.0333	ND	48.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0154	0.00500	"	0.0333	ND	46.1	30-120			
Pyrene	0.0202	0.00500	"	0.0333	ND	60.5	35-142			
1-Methylnaphthalene	0.0170	0.00500	"	0.0333	ND	50.9	15-130			
2-Methylnaphthalene	0.0153	0.00500	"	0.0333	ND	45.9	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0175</i>		<i>"</i>	<i>0.0333</i>		<i>52.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0166</i>		<i>"</i>	<i>0.0333</i>		<i>49.8</i>	<i>40-150</i>			

Matrix Spike Dup (BHF0277-MSD1)	Source: 2406082-01			Prepared & Analyzed: 06/11/24						
Acenaphthene	0.0183	0.00500	mg/kg	0.0333	ND	55.0	31-137	14.8	30	
Anthracene	0.0192	0.00500	"	0.0333	ND	57.5	30-120	14.7	30	
Benzo (a) anthracene	0.0187	0.00500	"	0.0333	ND	56.0	30-120	8.48	30	
Benzo (a) pyrene	0.0170	0.00500	"	0.0333	ND	51.0	30-120	12.3	30	
Benzo (b) fluoranthene	0.0166	0.00500	"	0.0333	ND	49.9	30-120	10.3	30	
Benzo (k) fluoranthene	0.0169	0.00500	"	0.0333	ND	50.6	30-120	15.4	30	
Chrysene	0.0182	0.00500	"	0.0333	ND	54.5	30-120	10.5	30	
Dibenz (a,h) anthracene	0.0150	0.00500	"	0.0333	ND	45.0	30-120	1.58	30	
Fluoranthene	0.0185	0.00500	"	0.0333	ND	55.6	30-120	2.68	30	
Fluorene	0.0184	0.00500	"	0.0333	ND	55.1	30-120	13.6	30	
Indeno (1,2,3-cd) pyrene	0.0153	0.00500	"	0.0333	ND	46.0	30-120	0.109	30	
Pyrene	0.0217	0.00500	"	0.0333	ND	65.2	35-142	7.49	30	
1-Methylnaphthalene	0.0191	0.00500	"	0.0333	ND	57.3	15-130	12.0	50	
2-Methylnaphthalene	0.0182	0.00500	"	0.0333	ND	54.7	15-130	17.6	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0203</i>		<i>"</i>	<i>0.0333</i>		<i>60.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0204</i>		<i>"</i>	<i>0.0333</i>		<i>61.3</i>	<i>40-150</i>			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kerbs K20-06
Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
07/02/24 09:11

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BHF0781 - EPA 5030 Soil MS

Blank (BHF0781-BLK1)

Prepared & Analyzed: 06/25/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Naphthalene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0225		"	0.0333		67.5	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0222		"	0.0333		66.5	40-150			

LCS (BHF0781-BS1)

Prepared & Analyzed: 06/25/24

Acenaphthene	0.0210	0.00500	mg/kg	0.0333		63.1	31-137			
Anthracene	0.0210	0.00500	"	0.0333		63.0	30-120			
Benzo (a) anthracene	0.0215	0.00500	"	0.0333		64.5	30-120			
Benzo (a) pyrene	0.0195	0.00500	"	0.0333		58.6	30-120			
Benzo (b) fluoranthene	0.0198	0.00500	"	0.0333		59.4	30-120			
Benzo (k) fluoranthene	0.0201	0.00500	"	0.0333		60.4	30-120			
Chrysene	0.0196	0.00500	"	0.0333		58.7	30-120			
Dibenz (a,h) anthracene	0.0178	0.00500	"	0.0333		53.3	30-120			
Fluoranthene	0.0208	0.00500	"	0.0333		62.5	30-120			
Fluorene	0.0211	0.00500	"	0.0333		63.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0175	0.00500	"	0.0333		52.5	30-120			
Naphthalene	0.0226	0.00500	"	0.0333		67.8	30-120			
Pyrene	0.0199	0.00500	"	0.0333		59.6	35-142			
1-Methylnaphthalene	0.0227	0.00500	"	0.0333		68.0	35-142			
2-Methylnaphthalene	0.0232	0.00500	"	0.0333		69.7	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0235		"	0.0333		70.6	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0221		"	0.0333		66.4	40-150			

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Wellington CO, 80549

Project: Noble - Kerbs K20-06
Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
07/02/24 09:11

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 BHF0781 - EPA 5030 Soil MS

Matrix Spike (BHF0781-MS1)	Source: 2406354-01			Prepared & Analyzed: 06/25/24						
Acenaphthene	0.0157	0.00500	mg/kg	0.0333	ND	47.1	31-137			
Anthracene	0.0149	0.00500	"	0.0333	ND	44.8	30-120			
Benzo (a) anthracene	0.0161	0.00500	"	0.0333	ND	48.2	30-120			
Benzo (a) pyrene	0.0141	0.00500	"	0.0333	ND	42.3	30-120			
Benzo (b) fluoranthene	0.0134	0.00500	"	0.0333	ND	40.2	30-120			
Benzo (k) fluoranthene	0.0143	0.00500	"	0.0333	ND	43.0	30-120			
Chrysene	0.0151	0.00500	"	0.0333	ND	45.2	30-120			
Dibenz (a,h) anthracene	0.0133	0.00500	"	0.0333	ND	39.9	30-120			
Fluoranthene	0.0142	0.00500	"	0.0333	ND	42.5	30-120			
Fluorene	0.0157	0.00500	"	0.0333	ND	47.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0134	0.00500	"	0.0333	ND	40.1	30-120			
Naphthalene	0.0197	0.00500	"	0.0333	ND	59.1	30-120			
Pyrene	0.0151	0.00500	"	0.0333	ND	45.3	35-142			
1-Methylnaphthalene	0.0167	0.00500	"	0.0333	ND	50.0	15-130			
2-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.5	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0167</i>		<i>"</i>	<i>0.0333</i>		<i>50.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0153</i>		<i>"</i>	<i>0.0333</i>		<i>46.0</i>	<i>40-150</i>			

Matrix Spike Dup (BHF0781-MSD1)	Source: 2406354-01			Prepared & Analyzed: 06/25/24						
Acenaphthene	0.0179	0.00500	mg/kg	0.0333	ND	53.6	31-137	13.0	30	
Anthracene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	16.1	30	
Benzo (a) anthracene	0.0184	0.00500	"	0.0333	ND	55.2	30-120	13.6	30	
Benzo (a) pyrene	0.0165	0.00500	"	0.0333	ND	49.6	30-120	15.9	30	
Benzo (b) fluoranthene	0.0166	0.00500	"	0.0333	ND	49.8	30-120	21.2	30	
Benzo (k) fluoranthene	0.0170	0.00500	"	0.0333	ND	51.1	30-120	17.2	30	
Chrysene	0.0169	0.00500	"	0.0333	ND	50.8	30-120	11.6	30	
Dibenz (a,h) anthracene	0.0152	0.00500	"	0.0333	ND	45.5	30-120	13.1	30	
Fluoranthene	0.0171	0.00500	"	0.0333	ND	51.2	30-120	18.5	30	
Fluorene	0.0173	0.00500	"	0.0333	ND	51.9	30-120	9.90	30	
Indeno (1,2,3-cd) pyrene	0.0155	0.00500	"	0.0333	ND	46.6	30-120	15.0	30	
Naphthalene	0.0191	0.00500	"	0.0333	ND	57.3	30-120	3.13	30	
Pyrene	0.0173	0.00500	"	0.0333	ND	51.9	35-142	13.5	30	
1-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.2	15-130	15.2	50	
2-Methylnaphthalene	0.0191	0.00500	"	0.0333	ND	57.3	15-130	12.7	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0201</i>		<i>"</i>	<i>0.0333</i>		<i>60.2</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0180</i>		<i>"</i>	<i>0.0333</i>		<i>54.0</i>	<i>40-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kerbs K20-06
 Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 07/02/24 09:11

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

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

Batch BHF0336 - EPA 3050B

Blank (BHF0336-BLK1)		Prepared: 06/12/24 Analyzed: 06/14/24								
Boron	ND	2.00	mg/L							
LCS (BHF0336-BS1)		Prepared: 06/12/24 Analyzed: 06/14/24								
Boron	5.35	2.00	mg/L	5.00		107	80-120			
Duplicate (BHF0336-DUP1)		Source: 2404413-17 Prepared: 06/12/24 Analyzed: 06/14/24								
Boron	0.386	2.00	mg/L		0.415			7.32	20	
Matrix Spike (BHF0336-MS1)		Source: 2404413-17 Prepared: 06/12/24 Analyzed: 06/14/24								
Boron	5.52	2.00	mg/L	5.01	0.415	102	75-125			
Matrix Spike Dup (BHF0336-MSD1)		Source: 2404413-17 Prepared: 06/12/24 Analyzed: 06/14/24								
Boron	5.72	2.00	mg/L	5.01	0.415	106	75-125	3.71	25	

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 Wellington CO, 80549

Project: Noble - Kerbs K20-06
 Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 07/02/24 09:11

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHF0289 - EPA 3050B

Blank (BHF0289-BLK1)

Prepared: 06/11/24 Analyzed: 06/14/24

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

LCS (BHF0289-BS1)

Prepared: 06/11/24 Analyzed: 06/14/24

Arsenic	36.1	0.200	mg/kg wet	40.0		90.3	80-120
Barium	39.0	0.400	"	40.0		97.4	80-120
Cadmium	1.94	0.200	"	2.00		96.8	80-120
Copper	36.5	0.400	"	40.0		91.2	80-120
Lead	19.8	0.200	"	20.0		99.0	80-120
Nickel	36.0	0.400	"	40.0		90.0	80-120
Silver	1.92	0.0200	"	2.00		96.1	80-120
Zinc	36.1	0.400	"	40.0		90.4	80-120
Selenium	3.84	0.260	"	4.00		96.0	80-120

Duplicate (BHF0289-DUP1)

Source: 2405167-03

Prepared: 06/11/24 Analyzed: 06/14/24

Arsenic	5.22	0.200	mg/kg dry	5.14		1.51	20
Barium	149	0.400	"	147		1.77	20
Cadmium	0.360	0.200	"	0.342		5.01	20
Copper	12.9	0.400	"	12.7		1.41	20
Lead	9.23	0.200	"	8.88		3.84	20
Nickel	14.8	0.400	"	14.7		0.329	20
Silver	0.0527	0.0200	"	0.0511		3.05	20
Zinc	48.9	0.400	"	48.5		0.781	20
Selenium	ND	0.260	"	ND			20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kerbs K20-06

Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 07/02/24 09:11

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 BHF0289 - EPA 3050B

Matrix Spike (BHF0289-MS1)

Source: 2405167-03

Prepared: 06/11/24 Analyzed: 06/14/24

Arsenic	47.4	0.200	mg/kg dry	47.4	5.14	89.3	75-125			
Barium	203	0.400	"	47.4	147	120	75-125			
Cadmium	2.62	0.200	"	2.37	0.342	96.2	75-125			
Copper	54.3	0.400	"	47.4	12.7	87.8	75-125			
Lead	29.0	0.200	"	23.7	8.88	85.2	75-125			
Nickel	56.9	0.400	"	47.4	14.7	89.2	75-125			
Silver	2.27	0.0200	"	2.37	0.0511	93.8	75-125			
Zinc	91.2	0.400	"	47.4	48.5	90.1	75-125			
Selenium	3.55	0.260	"	4.74	ND	75.0	75-125			

Matrix Spike Dup (BHF0289-MSD1)

Source: 2405167-03

Prepared: 06/11/24 Analyzed: 06/14/24

Arsenic	47.2	0.200	mg/kg dry	47.7	5.14	88.1	75-125	0.478	25	
Barium	202	0.400	"	47.7	147	117	75-125	0.436	25	
Cadmium	2.79	0.200	"	2.39	0.342	102	75-125	6.19	25	
Copper	54.2	0.400	"	47.7	12.7	87.0	75-125	0.0731	25	
Lead	30.3	0.200	"	23.9	8.88	89.8	75-125	4.24	25	
Nickel	56.5	0.400	"	47.7	14.7	87.6	75-125	0.734	25	
Silver	2.38	0.0200	"	2.39	0.0511	97.5	75-125	4.49	25	
Zinc	91.7	0.400	"	47.7	48.5	90.5	75-125	0.568	25	
Selenium	3.57	0.260	"	4.77	ND	74.9	75-125	0.537	25	QM-07

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 Wellington CO, 80549

Project: Noble - Kerbs K20-06
 Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 07/02/24 09:11

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHF0283 - 3060A Mod

Blank (BHF0283-BLK1)			Prepared & Analyzed: 06/11/24								
Chromium, Hexavalent	ND	0.30	mg/kg wet								
LCS (BHF0283-BS1)			Prepared & Analyzed: 06/11/24								
Chromium, Hexavalent	23.8	0.30	mg/kg wet	25.0	95.4	80-120					
Duplicate (BHF0283-DUP1)			Source: 2403312-01			Prepared & Analyzed: 06/11/24					
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
Matrix Spike (BHF0283-MS1)			Source: 2403312-01			Prepared & Analyzed: 06/11/24					
Chromium, Hexavalent	29.5	0.30	mg/kg dry	30.7	ND	96.2	75-125				
Matrix Spike Dup (BHF0283-MSD1)			Source: 2403312-01			Prepared & Analyzed: 06/11/24					
Chromium, Hexavalent	29.4	0.30	mg/kg dry	30.7	ND	95.8	75-125	0.417		20	

Summit Scientific

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 Wellington CO, 80549

Project: Noble - Kerbs K20-06

Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 07/02/24 09:11

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 BHF0346 - General Preparation

Blank (BHF0346-BLK1)

Prepared: 06/12/24 Analyzed: 06/13/24


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

LCS (BHF0346-BS1)

Prepared: 06/12/24 Analyzed: 06/13/24

Calcium	5.76	0.0500	mg/L wet	5.00		115	70-130			
Magnesium	5.38	0.0500	"	5.00		108	70-130			
Sodium	5.36	0.0500	"	5.00		107	70-130			

Summit Scientific



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 Wellington CO, 80549

Project: Noble - Kerbs K20-06
 Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 07/02/24 09:11

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

Summit Scientific

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

Batch BHF0291 - General Preparation

Duplicate (BHF0291-DUP2)	Source: 2406095-01			Prepared & Analyzed: 06/11/24							
% Solids	94.4		%		94.3			0.0424		20	

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 Wellington CO, 80549

Project: Noble - Kerbs K20-06
 Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 07/02/24 09:11

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

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

Batch BHF0347 - General Preparation

Blank (BHF0347-BLK1)

Prepared: 06/12/24 Analyzed: 06/13/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHF0347-BS1)

Prepared: 06/12/24 Analyzed: 06/13/24

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

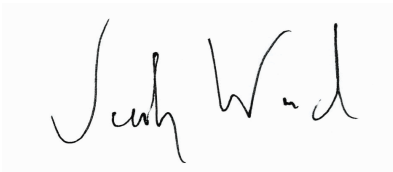
Duplicate (BHF0347-DUP1)

Source: 2406103-01

Prepared: 06/12/24 Analyzed: 06/13/24

Specific Conductance (EC) 0.165 0.0100 mmhos/cm 0.166 0.422 20

Summit Scientific



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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kerbs K20-06
 Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 07/02/24 09:11

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control
Summit Scientific

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


Batch BHF0348 - General Preparation

LCS (BHF0348-BS1)										
					Prepared: 06/12/24 Analyzed: 06/13/24					
pH	9.15		pH Units	9.18		99.7	95-105			
Duplicate (BHF0348-DUP1)										
					Source: 2406103-01 Prepared: 06/12/24 Analyzed: 06/13/24					
pH	9.06		pH Units	9.11		0.550	20			

Batch BHF0549 - General Preparation

LCS (BHF0549-BS1)										
					Prepared: 06/19/24 Analyzed: 06/20/24					
pH	9.18		pH Units	9.18		100	95-105			
Duplicate (BHF0549-DUP1)										
					Source: 2404346-01RE1 Prepared: 06/19/24 Analyzed: 06/20/24					
pH	8.39		pH Units	8.41		0.238	20			

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kerbs K20-06

Project Number: UWRWE-A1000-ABN

Project Manager: Paul Henchan

Reported:
07/02/24 09:11

Notes and Definitions

- 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.
- O-05 This sample was extracted outside of the EPA recommended holding time.
- O-04 This sample was analyzed above the recommended temperature.
- I-04 Sample was analyzed out of recommended holding time per clients request.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 17, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Kerbs (BKG)
Work Order #2406110

Enclosed are the results of analyses for samples received by Summit Scientific on 06/07/24 16:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kerbs (BKG)
Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
06/17/24 12:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01-2FT	2406110-01	Soil	06/07/24 11:00	06/07/24 16:40
BKG01-3FT	2406110-02	Soil	06/07/24 11:10	06/07/24 16:40
BKG02-2FT	2406110-03	Soil	06/07/24 11:20	06/07/24 16:40
BKG02-3FT	2406110-04	Soil	06/07/24 11:30	06/07/24 16:40

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.



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

Lab ID	Page 1 of 1
2406110	

Client: Fremont Environmental		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: Noble	
Address:		E-Mail: Fremont Distribution List		Project Name/Location:	
City/State/Zip:		Project Name: herbs (BHG)		AFE#:	
Phone: 303-261-6246		Project Number:		PO/Billing Codes: UWRWE-A1000-ABW	
Sampler Name: Stanley Gilbert				Contact: Mike Montoya	

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, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate	
1	BHG01-2FT	6/7/24	11:00	1			X			X					X	X			
2	BHG01-3FT		11:10	1			X			X					X	X			
3	BHG02-2FT		11:20	1			X			X					X	X			
4	BHG02-3FT		11:30	1			X			X					X	X			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by:	Date/Time: 6/7/24 15:40	Received by: Summit North	Date/Time: 6/7/24 15:40	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time: 6/7/24 16:40	Received by:	Date/Time: 6/7/24 16:40	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 14.7	Corrected Temperature:	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2406110

Client: Fremont Client Project ID: Kerbs (BKG)

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

Grid of boxes for shipping options

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

Temp (°C) 4.7 Thermometer # 1

Table with 5 columns: Yes, No, N/A, Comments (if any). Rows include questions about cooling, custody seals, sample volume, and preservation.

Additional Comments (if any):

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

Custodian Printed Name

Date/Time

AS

6/7/24



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kerbs (BKG)
Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
06/17/24 12:44

BKG01-2FT
2406110-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/07/24 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHF0336	06/12/24	06/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/07/24 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.61	0.200		mg/kg dry	1	BHF0289	06/11/24	06/14/24	EPA 6020B	
Barium	60.6	0.400		"	"	"	"	"	"	
Cadmium	0.260	0.200		"	"	"	"	"	"	
Copper	10.1	0.400		"	"	"	"	"	"	
Lead	9.61	0.200		"	"	"	"	"	"	
Nickel	4.46	0.400		"	"	"	"	"	"	
Silver	0.0504	0.0200		"	"	"	"	"	"	
Zinc	26.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/07/24 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHF0283	06/11/24	06/11/24	EPA 7196A	

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

Date Sampled: **06/07/24 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	22.3	0.0500		mg/L dry	1	BHF0346	06/12/24	06/14/24	EPA 6020B	
Magnesium	5.95	0.0500		"	"	"	"	"	"	
Sodium	11.7	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kerbs (BKG)
 Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 06/17/24 12:44

BKG01-2FT
2406110-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/07/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.569	0.00100	units	1	BHF0428	06/14/24	06/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/07/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.6		%	1	BHF0291	06/11/24	06/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/07/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.101	0.0100	mmhos/cm	1	BHF0347	06/12/24	06/13/24	EPA 120.1	

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

Date Sampled: **06/07/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.44		pH Units	1	BHF0348	06/12/24	06/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kerbs (BKG)
Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
06/17/24 12:44

BKG01-3FT
2406110-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/07/24 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHF0336	06/12/24	06/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/07/24 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.05	0.200		mg/kg dry	1	BHF0289	06/11/24	06/14/24	EPA 6020B	
Barium	86.6	0.400		"	"	"	"	"	"	
Cadmium	0.235	0.200		"	"	"	"	"	"	
Copper	7.54	0.400		"	"	"	"	"	"	
Lead	8.03	0.200		"	"	"	"	"	"	
Nickel	7.01	0.400		"	"	"	"	"	"	
Silver	0.0608	0.0200		"	"	"	"	"	"	
Zinc	30.2	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/07/24 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHF0283	06/11/24	06/11/24	EPA 7196A	

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

Date Sampled: **06/07/24 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	38.4	0.0500		mg/L dry	1	BHF0346	06/12/24	06/14/24	EPA 6020B	
Magnesium	9.44	0.0500		"	"	"	"	"	"	
Sodium	23.2	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kerbs (BKG)
Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
06/17/24 12:44

BKG01-3FT
2406110-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/07/24 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.870	0.00100	units	1	BHF0428	06/14/24	06/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/07/24 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.0		%	1	BHF0291	06/11/24	06/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/07/24 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.218	0.0100	mmhos/cm	1	BHF0347	06/12/24	06/13/24	EPA 120.1	

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

Date Sampled: **06/07/24 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.38		pH Units	1	BHF0348	06/12/24	06/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kerbs (BKG)
Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
06/17/24 12:44

BKG02-2FT
2406110-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/07/24 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHF0336	06/12/24	06/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/07/24 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.06	0.200		mg/kg dry	1	BHF0289	06/11/24	06/14/24	EPA 6020B	
Barium	58.8	0.400		"	"	"	"	"	"	
Cadmium	0.236	0.200		"	"	"	"	"	"	
Copper	8.75	0.400		"	"	"	"	"	"	
Lead	9.08	0.200		"	"	"	"	"	"	
Nickel	4.56	0.400		"	"	"	"	"	"	
Silver	0.0803	0.0200		"	"	"	"	"	"	
Zinc	34.6	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/07/24 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHF0283	06/11/24	06/11/24	EPA 7196A	

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

Date Sampled: **06/07/24 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	12.3	0.0500		mg/L dry	1	BHF0346	06/12/24	06/14/24	EPA 6020B	
Magnesium	2.08	0.0500		"	"	"	"	"	"	
Sodium	7.24	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kerbs (BKG)
Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
06/17/24 12:44

BKG02-2FT
2406110-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/07/24 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.503	0.00100	units	1	BHF0428	06/14/24	06/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/07/24 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.5		%	1	BHF0291	06/11/24	06/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/07/24 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.104	0.0100	mmhos/cm	1	BHF0347	06/12/24	06/13/24	EPA 120.1	

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

Date Sampled: **06/07/24 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.76		pH Units	1	BHF0348	06/12/24	06/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kerbs (BKG)

Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
06/17/24 12:44

BKG02-3FT
2406110-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/07/24 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHF0336	06/12/24	06/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/07/24 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.40	0.200		mg/kg dry	1	BHF0289	06/11/24	06/14/24	EPA 6020B	
Barium	48.0	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	6.04	0.400		"	"	"	"	"	"	
Lead	6.03	0.200		"	"	"	"	"	"	
Nickel	3.64	0.400		"	"	"	"	"	"	
Silver	0.0459	0.0200		"	"	"	"	"	"	
Zinc	24.0	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/07/24 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHF0283	06/11/24	06/11/24	EPA 7196A	

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

Date Sampled: **06/07/24 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	2.76	0.0500		mg/L dry	1	BHF0346	06/12/24	06/14/24	EPA 6020B	
Magnesium	1.25	0.0500		"	"	"	"	"	"	
Sodium	3.39	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kerbs (BKG)
 Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 06/17/24 12:44

BKG02-3FT
2406110-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.425	0.00100	units	1	BHF0428	06/14/24	06/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.7		%	1	BHF0291	06/11/24	06/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0923	0.0100	mmhos/cm	1	BHF0347	06/12/24	06/13/24	EPA 120.1	

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

Date Sampled: **06/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.98		pH Units	1	BHF0348	06/12/24	06/13/24	EPA 9045D	

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 - Kerbs (BKG)
 Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 06/17/24 12:44

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			Limit	RPD	Limit	RPD	

Batch BHF0336 - EPA 3050B

Blank (BHF0336-BLK1)

Prepared: 06/12/24 Analyzed: 06/14/24

Boron ND 2.00 mg/L

LCS (BHF0336-BS1)

Prepared: 06/12/24 Analyzed: 06/14/24

Boron 5.35 2.00 mg/L 5.00 107 80-120

Duplicate (BHF0336-DUP1)

Source: 2404413-17

Prepared: 06/12/24 Analyzed: 06/14/24

Boron 0.386 2.00 mg/L 0.415 7.32 20

Matrix Spike (BHF0336-MS1)

Source: 2404413-17

Prepared: 06/12/24 Analyzed: 06/14/24

Boron 5.52 2.00 mg/L 5.01 0.415 102 75-125

Matrix Spike Dup (BHF0336-MSD1)

Source: 2404413-17

Prepared: 06/12/24 Analyzed: 06/14/24

Boron 5.72 2.00 mg/L 5.01 0.415 106 75-125 3.71 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kerbs (BKG)
Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
06/17/24 12:44

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHF0289 - EPA 3050B

Blank (BHF0289-BLK1)

Prepared: 06/11/24 Analyzed: 06/14/24

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

LCS (BHF0289-BS1)

Prepared: 06/11/24 Analyzed: 06/14/24

Arsenic	36.1	0.200	mg/kg wet	40.0	90.3	80-120
Barium	39.0	0.400	"	40.0	97.4	80-120
Cadmium	1.94	0.200	"	2.00	96.8	80-120
Copper	36.5	0.400	"	40.0	91.2	80-120
Lead	19.8	0.200	"	20.0	99.0	80-120
Nickel	36.0	0.400	"	40.0	90.0	80-120
Silver	1.92	0.0200	"	2.00	96.1	80-120
Zinc	36.1	0.400	"	40.0	90.4	80-120
Selenium	3.84	0.260	"	4.00	96.0	80-120

Duplicate (BHF0289-DUP1)

Source: 2405167-03

Prepared: 06/11/24 Analyzed: 06/14/24

Arsenic	5.22	0.200	mg/kg dry	5.14	1.51	20
Barium	149	0.400	"	147	1.77	20
Cadmium	0.360	0.200	"	0.342	5.01	20
Copper	12.9	0.400	"	12.7	1.41	20
Lead	9.23	0.200	"	8.88	3.84	20
Nickel	14.8	0.400	"	14.7	0.329	20
Silver	0.0527	0.0200	"	0.0511	3.05	20
Zinc	48.9	0.400	"	48.5	0.781	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kerbs (BKG)
Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
06/17/24 12:44

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 BHF0289 - EPA 3050B

Matrix Spike (BHF0289-MS1)

Source: 2405167-03

Prepared: 06/11/24 Analyzed: 06/14/24

Arsenic	47.4	0.200	mg/kg dry	47.4	5.14	89.3	75-125			
Barium	203	0.400	"	47.4	147	120	75-125			
Cadmium	2.62	0.200	"	2.37	0.342	96.2	75-125			
Copper	54.3	0.400	"	47.4	12.7	87.8	75-125			
Lead	29.0	0.200	"	23.7	8.88	85.2	75-125			
Nickel	56.9	0.400	"	47.4	14.7	89.2	75-125			
Silver	2.27	0.0200	"	2.37	0.0511	93.8	75-125			
Zinc	91.2	0.400	"	47.4	48.5	90.1	75-125			
Selenium	3.55	0.260	"	4.74	ND	75.0	75-125			

Matrix Spike Dup (BHF0289-MSD1)

Source: 2405167-03

Prepared: 06/11/24 Analyzed: 06/14/24

Arsenic	47.2	0.200	mg/kg dry	47.7	5.14	88.1	75-125	0.478	25	
Barium	202	0.400	"	47.7	147	117	75-125	0.436	25	
Cadmium	2.79	0.200	"	2.39	0.342	102	75-125	6.19	25	
Copper	54.2	0.400	"	47.7	12.7	87.0	75-125	0.0731	25	
Lead	30.3	0.200	"	23.9	8.88	89.8	75-125	4.24	25	
Nickel	56.5	0.400	"	47.7	14.7	87.6	75-125	0.734	25	
Silver	2.38	0.0200	"	2.39	0.0511	97.5	75-125	4.49	25	
Zinc	91.7	0.400	"	47.7	48.5	90.5	75-125	0.568	25	
Selenium	3.57	0.260	"	4.77	ND	74.9	75-125	0.537	25	QM-07

Post Spike (BHF0289-PS1)

Source: 2405167-03

Prepared: 06/11/24 Analyzed: 06/14/24

Arsenic	106		ug/l	100	11.4	94.3	75-125			
Barium	436		"	100	324	112	75-125			
Cadmium	5.67		"	5.00	0.757	98.3	75-125			
Copper	118		"	100	28.0	89.6	75-125			
Lead	63.3		"	50.0	19.6	87.4	75-125			
Nickel	123		"	100	32.5	90.1	75-125			
Silver	4.82		"	5.00	0.113	94.1	75-125			
Zinc	202		"	100	107	94.8	75-125			
Selenium	8.40		"	10.0	0.308	81.0	75-125			

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 - Kerbs (BKG)
 Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 06/17/24 12:44

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHF0283 - 3060A Mod

Blank (BHF0283-BLK1)

Prepared & Analyzed: 06/11/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHF0283-BS1)

Prepared & Analyzed: 06/11/24

Chromium, Hexavalent 23.8 0.30 mg/kg wet 25.0 95.4 80-120

Duplicate (BHF0283-DUP1)

Source: 2403312-01

Prepared & Analyzed: 06/11/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHF0283-MS1)

Source: 2403312-01

Prepared & Analyzed: 06/11/24

Chromium, Hexavalent 29.5 0.30 mg/kg dry 30.7 ND 96.2 75-125

Matrix Spike Dup (BHF0283-MSD1)

Source: 2403312-01

Prepared & Analyzed: 06/11/24

Chromium, Hexavalent 29.4 0.30 mg/kg dry 30.7 ND 95.8 75-125 0.417 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kerbs (BKG)
 Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 06/17/24 12:44

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

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

Batch BHF0346 - General Preparation

Blank (BHF0346-BLK1)

Prepared: 06/12/24 Analyzed: 06/13/24

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

LCS (BHF0346-BS1)

Prepared: 06/12/24 Analyzed: 06/13/24

Calcium	5.76	0.0500	mg/L wet	5.00		115	70-130			
Magnesium	5.38	0.0500	"	5.00		108	70-130			
Sodium	5.36	0.0500	"	5.00		107	70-130			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kerbs (BKG)
 Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 06/17/24 12:44

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

Summit Scientific

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

Batch BHF0291 - General Preparation

Duplicate (BHF0291-DUP2)	Source: 2406095-01			Prepared & Analyzed: 06/11/24							
% Solids	94.4		%		94.3			0.0424		20	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kerbs (BKG)
 Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 06/17/24 12:44

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

Summit Scientific

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

Batch BHF0347 - General Preparation

Blank (BHF0347-BLK1)

Prepared: 06/12/24 Analyzed: 06/13/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHF0347-BS1)

Prepared: 06/12/24 Analyzed: 06/13/24

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

Duplicate (BHF0347-DUP1)

Source: 2406103-01

Prepared: 06/12/24 Analyzed: 06/13/24

Specific Conductance (EC) 0.165 0.0100 mmhos/cm 0.166 0.422 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Kerbs (BKG)
 Project Number: UWRWE-A1000-ABN
 Project Manager: Paul Henchan

Reported:
 06/17/24 12:44

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 BHF0348 - General Preparation

LCS (BHF0348-BS1)

Prepared: 06/12/24 Analyzed: 06/13/24

pH	9.15		pH Units	9.18		99.7	95-105			
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Duplicate (BHF0348-DUP1)

Source: 2406103-01

Prepared: 06/12/24 Analyzed: 06/13/24

pH	9.06		pH Units	9.11		0.550	20			
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Kerbs (BKG)
Project Number: UWRWE-A1000-ABN
Project Manager: Paul Henchan

Reported:
06/17/24 12:44

Notes and Definitions

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.

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