

FREMONT ENVIRONMENTAL INC.

April 28, 2023

Mr. Daniel Peterson
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: **Groundwater Data Submittal - NFA**
Harper Kona Pipeline
NESW Sec 21, T6N, R64W
Weld County, Colorado
Fremont Project No. C021-074
Facility #480529, Remediation # 20790

Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Groundwater Data Submittal for the Harper Kona Pipeline site in Weld County, Colorado. The enclosed data describes the groundwater quality at the site during the recent quarterly sampling and monitoring event.

The site's monitoring wells have achieved Colorado Oil and Gas Conservation Commission compliant standards under static groundwater conditions for four consecutive quarters. Noble should request a no further action (NFA) determination for groundwater monitoring at the site.

Please contact me at (603) 477-6907 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,
FREMONT ENVIRONMENTAL INC.



Ethan Black, P.G.
Consultant

Enclosure

1759 REDWING LANE, BROOMFIELD, CO 80020
(303) 956-8714 (DIRECT)

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	NAPH-THALENE (µg/L)	1,2,4 TMB (µg/L)	1,3,5 TMB (µg/L)	TOC ELEV (FT)	DTW (FT)	GW ELEV (FT)	LNAPL (FT)
MW-6	11/04/21	Dry	Dry	Dry	Dry	Dry	Dry	Dry	98.38	13.78	84.60	NP
	01/20/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
MW-6R	04/29/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	98.51	15.94	82.57	NP
	07/26/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		14.84	83.67	NP
	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		13.89	84.62	NP
	01/30/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		15.27	83.24	NP
MW-7	11/04/21	Dry	Dry	Dry	Dry	Dry	Dry	Dry	100.00	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	04/29/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	10/20/22	IW	IW	IW	IW	IW	IW	IW		15.33	84.67	NP
	01/30/23	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
MW-8	11/04/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	95.00	11.04	83.96	NP
	01/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		12.42	82.58	NP
	04/29/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		13.24	81.76	NP
	07/26/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		10.36	84.64	NP
	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		10.23	84.77	NP
	01/30/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		12.24	82.76	NP
MW-9	11/04/21	Dry	Dry	Dry	Dry	Dry	Dry	Dry	97.91	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	04/29/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	10/20/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	01/30/23	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
MW-10	11/04/21	Dry	Dry	Dry	Dry	Dry	Dry	Dry	98.66	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	04/29/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	10/20/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	01/30/23	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	NAPH-THALENE (µg/L)	1,2,4 TMB (µg/L)	1,3,5 TMB (µg/L)	TOC ELEV (FT)	DTW (FT)	GW ELEV (FT)	LNAPL (FT)
MW-11	04/29/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	97.48	15.31	82.17	NP
	07/26/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		13.73	83.75	NP
	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		12.76	84.72	NP
	01/30/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		14.50	82.98	NP
Table 915-1 Limits		5	560	700	1,400	140	67	67				

Bold face values exceed the COGCC limits

NP - No Free Product

TABLE 2
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
HARPER KONA PIPELINE, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C021-074

SAMPLE LOCATION	DATE	TDS (mg/L)	CHLORIDE ION (mg/L)	SULFATE ION (mg/L)	BARIUM (mg/L)
MW-1	11/04/21	1080	55.2	899	NA
	01/20/22	1360	35.4	499	0.0774
	04/29/22	1510	7.76	997	0.0453
	07/26/22	1620	64	898	0.0529
	10/20/22	1040	92.4	230	0.0409
	01/30/23	1150	42.2	612	0.0333
MW-2	11/04/21	2550	187	2360	NA
	01/20/22	3670	392	1360	0.116
	04/29/22	3160	314	2000	0.0609
	07/26/22	2880	105	2180	0.0561
	10/20/22	2160	102	1240	0.0547
	01/30/23	3080	253	1500	0.0668
MW-3 MW-3R	11/04/21	2420	46.6	2360	NA
	01/20/22	IW	IW	IW	IW
	04/29/22	2240	42.4	1980	0.0305
	07/26/22	2580	46.6	1990	0.0234
	10/20/22	1930	59.4	1610	0.0195
	01/30/23	2280	45.6	1620	0.0224
MW-4	11/04/21	Dry	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry
	04/29/22	Dry	Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry
	10/20/22	Dry	Dry	Dry	Dry
	01/30/23	Dry	Dry	Dry	Dry

SAMPLE LOCATION	DATE	TDS (mg/L)	CHLORIDE ION (mg/L)	SULFATE ION (mg/L)	BARIUM (mg/L)
MW-5	11/04/21	Dry	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry
	04/29/22	Dry	Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry
	10/20/22	Dry	Dry	Dry	Dry
	01/30/23	Dry	Dry	Dry	Dry
MW-6 MW-6R	11/04/21	Dry	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry
	04/29/22	2760	123	2550	0.0311
	07/26/22	3260	141	2800	0.0254
	10/20/22	2440	99.8	1950	0.0239
	01/30/23	2910	103	1930	0.0244
MW-7	11/04/21	Dry	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry
	04/29/22	Dry	Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry
	10/20/22	IW	IW	IW	IW
	01/30/23	Dry	Dry	Dry	Dry
MW-8	11/04/21	2820	106	2620	NA
	01/20/22	2720	63.6	1580	0.0819
	04/29/22	IW	IW	IW	IW
	07/26/22	2400	89.4	1840	0.0761
	10/20/22	2270	107	2080	0.0493
	01/30/23	2470	79.6	1830	0.0393
MW-9	11/04/21	Dry	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry
	10/20/22	Dry	Dry	Dry	Dry
	01/30/23	Dry	Dry	Dry	Dry

SAMPLE LOCATION	DATE	TDS (mg/L)	CHLORIDE ION (mg/L)	SULFATE ION (mg/L)	BARIUM (mg/L)
MW-10	11/04/21	Dry	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry
	10/20/22	Dry	Dry	Dry	Dry
	01/30/23	Dry	Dry	Dry	Dry
MW-11	04/29/22	2540	80.0	2360	0.0367
	07/26/22	2970	88.8	2560	0.0310
	10/20/22	2170	77.6	1910	0.0316
	01/30/23	2570	72.2	1850	0.0246
Table 915-1 Standards		<1.25 x local background	250 or 1.25x background	250 or 1.25x background	None
Reg. 41 Drinking Water Standard					2.0

Bold face values exceed the COGCC limits

NA - Not Analyzed

NAP - Not Applicable

IW - Insufficient Water

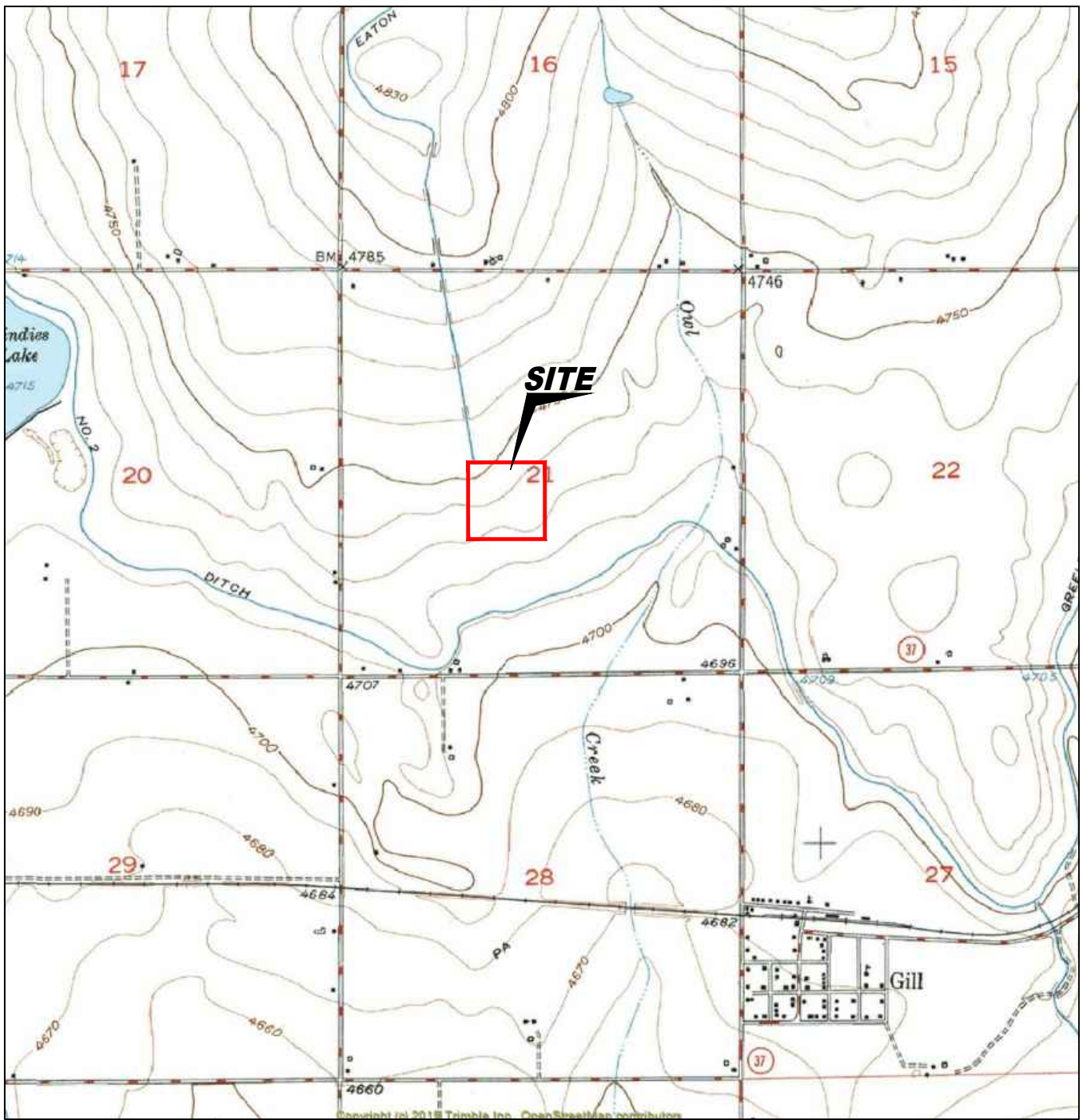
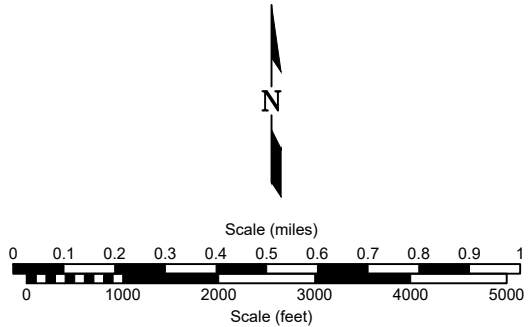
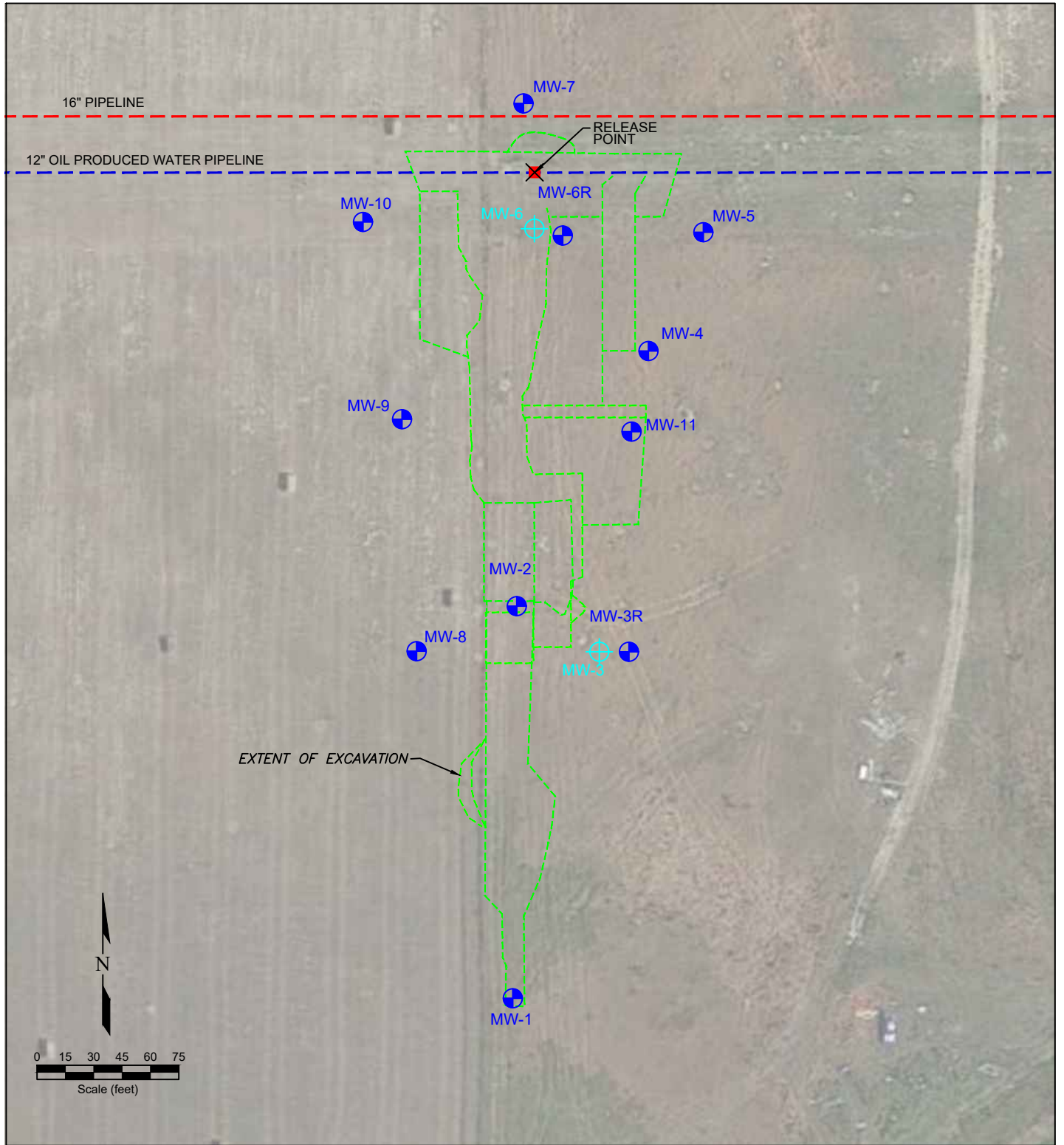


Figure 1
SITE LOCATION MAP








Noble Midstream, Inc.
Harper Pipeline Release
 NESW Sec. 21, T6N, R64W, 6th PM
 Weld County, Colorado



Project # C021-074	Prepared By 	Drawn By TA	
Date 4/13/23	Reviewed By EB	Filename 21074T	



LEGEND

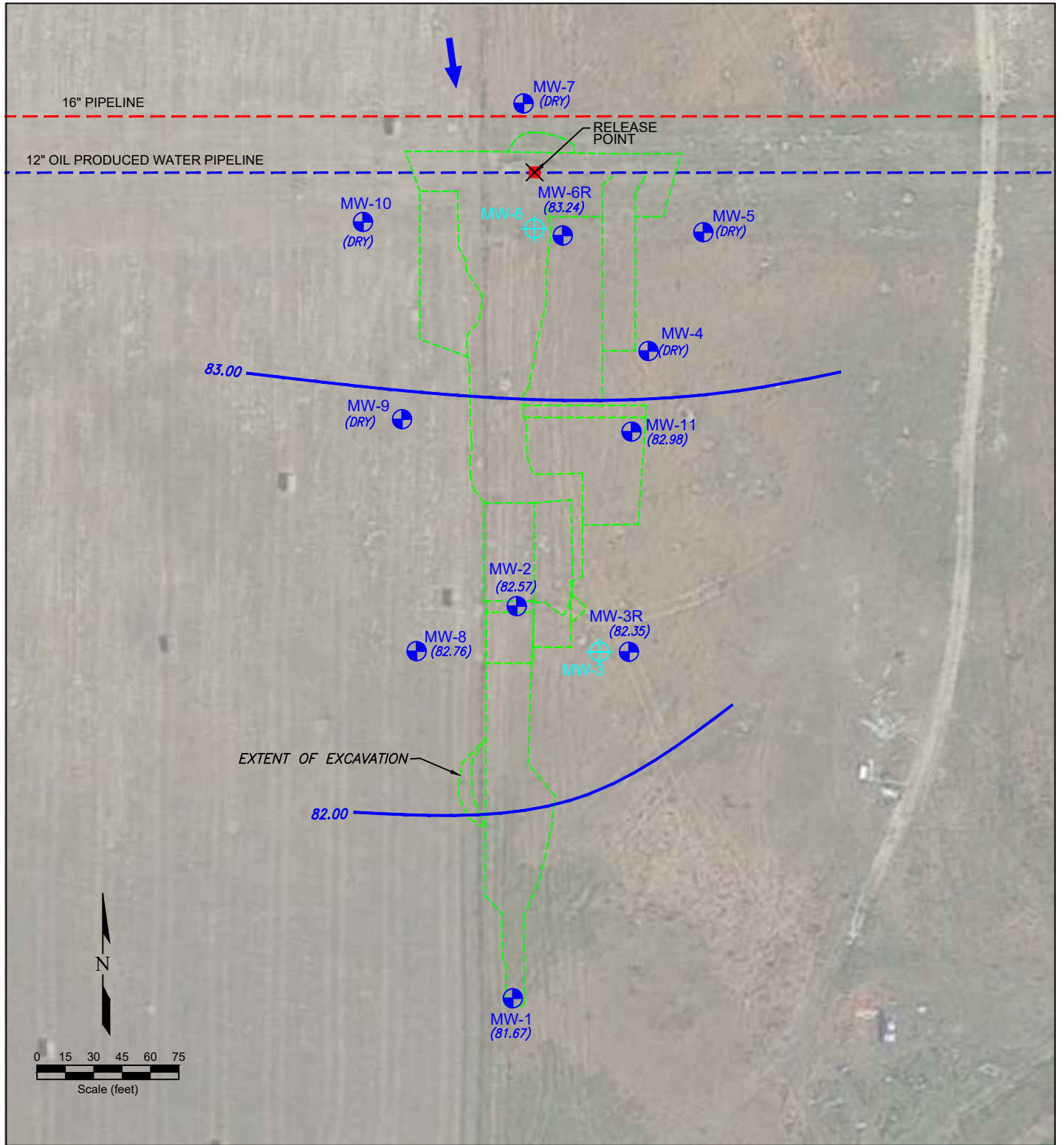
-  RELEASE POINT
-  MONITORING WELL
-  DESTROYED MONITORING WELL
-  EXTENT OF EXCAVATION
-  12" OIL PRODUCED WATER PIPELINE
-  16" PIPELINE
-  FENCE LINE

**Figure 2
SITE MAP**

Noble Midstream, Inc.
 Harper Pipeline Release
 NESW Sec. 21, T6N, R64W, 6th PM
 Weld County, Colorado

Project No. CO21-074	Prepared by TA	Drawn by TA
Date 4/12/23	Reviewed by EB	Filename 21074QL





LEGEND













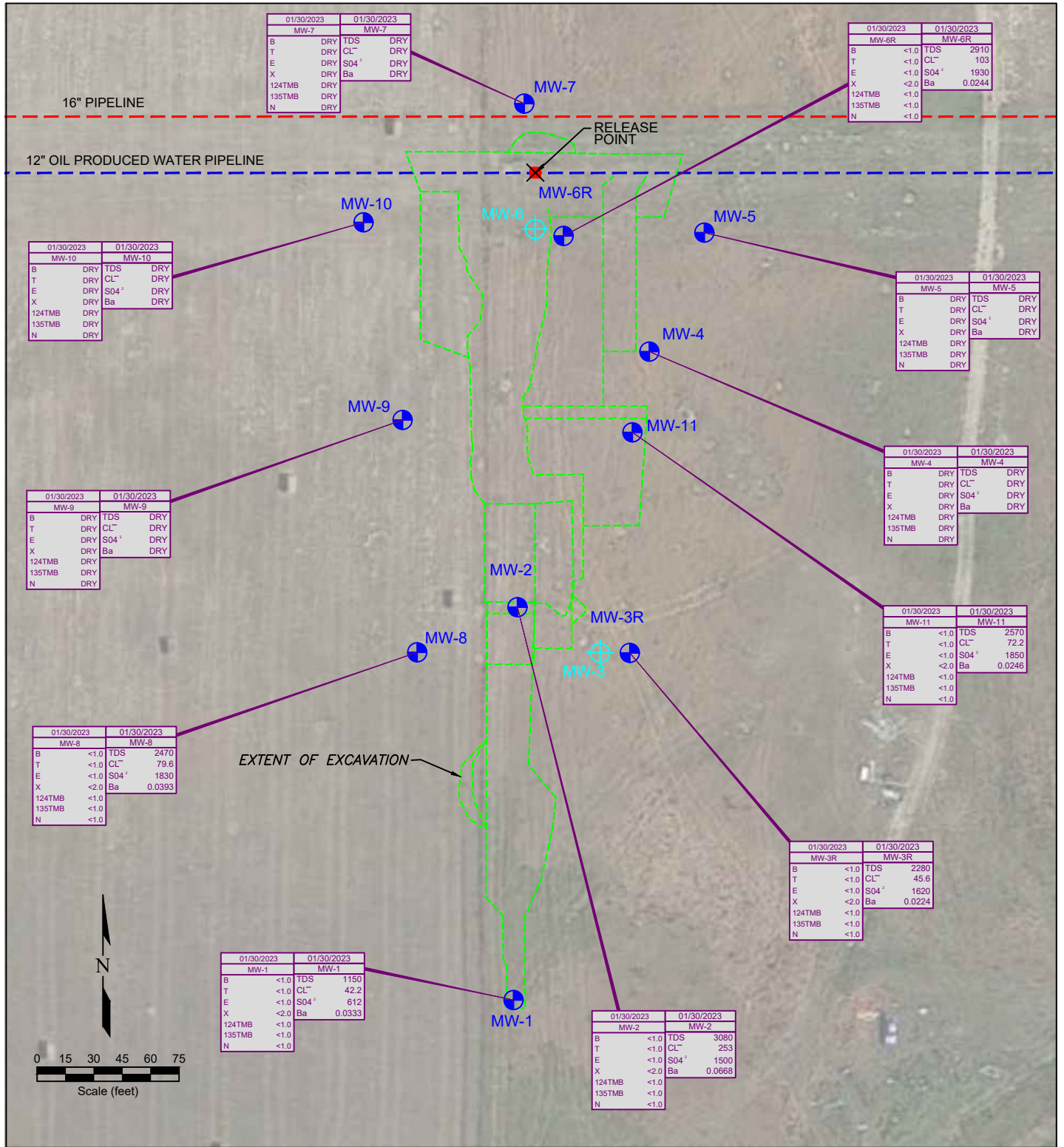
-  RELEASE POINT
-  MONITORING WELL
-  DESTROYED MONITORING WELL
-  EXTENT OF EXCAVATION
-  12" OIL PRODUCED WATER PIPELINE
-  16" PIPELINE
-  FENCE LINE
-  GROUND WATER ELEVATION (ft above arbitrary datum)
-  WATER TABLE CONTOUR
-  GROUND WATER FLOW DIRECTION
-  WATER SUPPLY NOT PRESENT
-  NOT USED IN CONTOURING

Figure 3
INFERRED GROUNDWATER CONTOUR MAP
 January 30, 2023

Noble Midstream, Inc.
 Harper Pipeline Release
 NESW Sec. 21, T6N, R64W, 6th PM
 Weld County, Colorado

Project No. CO21-074	Prepared by	Drawn by TA
Date 4/12/23	Reviewed by EB	Filename 21074QL





LEGEND

	RELEASE POINT		MONITORING WELL																																							
	DESTROYED MONITORING WELL		EXTENT OF EXCAVATION																																							
	12" OIL PRODUCED WATER PIPELINE		16" PIPELINE																																							
	FENCE LINE		INSUFFICIENT WATER SUPPLY																																							
	WATER NOT PRESENT	<table border="1"> <thead> <tr> <th>01/30/2023</th> <th>01/30/2023</th> <th>DATE SAMPLED</th> <th>SAMPLE ID</th> </tr> </thead> <tbody> <tr> <td>B</td> <td><1.0</td> <td>TDS</td> <td>1150</td> </tr> <tr> <td>T</td> <td><1.0</td> <td>CL⁻</td> <td>42.2</td> </tr> <tr> <td>E</td> <td><1.0</td> <td>SO₄²⁻</td> <td>612</td> </tr> <tr> <td>X</td> <td><2.0</td> <td>Ba</td> <td>0.0333</td> </tr> <tr> <td>124TMB</td> <td><1.0</td> <td></td> <td></td> </tr> <tr> <td>135TMB</td> <td><1.0</td> <td></td> <td></td> </tr> <tr> <td>N</td> <td><1.0</td> <td></td> <td></td> </tr> </tbody> </table>		01/30/2023	01/30/2023	DATE SAMPLED	SAMPLE ID	B	<1.0	TDS	1150	T	<1.0	CL ⁻	42.2	E	<1.0	SO ₄ ²⁻	612	X	<2.0	Ba	0.0333	124TMB	<1.0			135TMB	<1.0			N	<1.0									
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Figure 4
GROUNDWATER CHEMISTRY MAP
January 30, 2023
Noble Midstream, Inc.
Harper Pipeline Release
NESW Sec. 21, T6N, R64W, 6th PM
Weld County, Colorado

Project No. CO21-074	Prepared by EB	Drawn by TA	
Date 4/12/23	Reviewed by EB	Filename 21074QL	

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 08, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Harper Kona
Work Order #2302047

Enclosed are the results of analyses for samples received by Summit Scientific on 02/02/23 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/08/23 13:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	2302047-01	Water	01/30/23 00:00	02/02/23 16:00
MW-2	2302047-02	Water	01/30/23 00:00	02/02/23 16:00
MW-3R	2302047-03	Water	01/30/23 00:00	02/02/23 16:00
MW-6R	2302047-04	Water	01/30/23 00:00	02/02/23 16:00
MW-8	2302047-05	Water	01/30/23 00:00	02/02/23 16:00
MW-11	2302047-06	Water	01/30/23 00:00	02/02/23 16:00

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

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Client: Fremont Environmental

Project Manager: Paul Henehan

Address:

E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG and ChrisL. @fremontenv.com

City/State/Zip:

Bill to : Dan


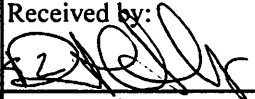
Phone:

Project Name: Noble - Harper Kong

Sampler Name: EB

Project Number:

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		Ba
1	MW-1	1/30/23		4			X		X				X					X	X	
2	MW-2																			
3	MW-3R																			
4	MW-6R																			
5	MW-8																			
6	MW-11																			
7																				
8																				
9																				
10																				

Relinquished by: 	Date/Time: 2/2/23 1600	Received by: S ₂	Date/Time: 2/2/23 1600	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: 7.3 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes:
Relinquished by: S ₂	Date/Time: 2/2/23 1600	Received by: 	Date/Time: 2/2/23 1600		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 230247

Client: Fremont Client Project ID: Noble-Harper Kona

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

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

Temp (°C) 7.3 Thermometer # 1

	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"/>	<u>on ICE</u>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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

2/2/23
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/08/23 13:53

MW-1
2302047-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BGB0090	02/03/23	02/05/23	EPA 8260B	
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	"	"	"	"	"	"	

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	11.4	85.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	12.3	92.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.7	102 %	21-167		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	33.3	1.00	ug/l	1	BGB0081	02/03/23	02/03/23	EPA 200.8	

Anions by EPA Method 300.0

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	42.2	12.0	mg/L	200	BGB0132	02/06/23	02/07/23	EPA 300.0	
Sulfate	612	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/08/23 13:53

MW-1
2302047-01 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1150	10.0		mg/L	1	BGB0111	02/05/23	02/05/23	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/08/23 13:53

MW-2
2302047-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGB0090	02/03/23	02/05/23	EPA 8260B	
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		"	"	"	"	"	"	

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	16.2	121 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	98.7 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.7	95.4 %		21-167		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	66.8	1.00		ug/l	1	BGB0081	02/03/23	02/03/23	EPA 200.8	

Anions by EPA Method 300.0

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	253	12.0		mg/L	200	BGB0132	02/06/23	02/07/23	EPA 300.0	
Sulfate	1500	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/08/23 13:53

MW-2
2302047-02 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	3080	10.0		mg/L	1	BGB0111	02/05/23	02/05/23	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/08/23 13:53

MW-3R
2302047-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BGB0090	02/03/23	02/05/23	EPA 8260B	
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	"	"	"	"	"	"	

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	15.3	114 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.7	103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.8	95.8 %	21-167		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	22.4	1.00	ug/l	1	BGB0081	02/03/23	02/03/23	EPA 200.8	

Anions by EPA Method 300.0

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	45.6	12.0	mg/L	200	BGB0132	02/06/23	02/07/23	EPA 300.0	
Sulfate	1620	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/08/23 13:53

MW-3R
2302047-03 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2280	10.0		mg/L	1	BGB0111	02/05/23	02/05/23	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/08/23 13:53

MW-6R
2302047-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BGB0090	02/03/23	02/05/23	EPA 8260B	
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	"	"	"	"	"	"	

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	14.7	110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.5	101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.2	98.9 %	21-167		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	24.4	1.00	ug/l	1	BGB0081	02/03/23	02/03/23	EPA 200.8	

Anions by EPA Method 300.0

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	103	12.0	mg/L	200	BGB0132	02/06/23	02/07/23	EPA 300.0	
Sulfate	1930	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/08/23 13:53

MW-6R
2302047-04 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	2910	10.0	mg/L	1	BGB0111	02/05/23	02/05/23	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/08/23 13:53

MW-8
2302047-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGB0090	02/03/23	02/05/23	EPA 8260B	
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		"	"	"	"	"	"	

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	14.6	109 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	12.9	96.7 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.9	96.5 %		21-167		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	39.3	1.00		ug/l	1	BGB0081	02/03/23	02/03/23	EPA 200.8	

Anions by EPA Method 300.0

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	79.6	12.0		mg/L	200	BGB0132	02/06/23	02/07/23	EPA 300.0	
Sulfate	1830	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/08/23 13:53

MW-8
2302047-05 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2470	10.0		mg/L	1	BGB0111	02/05/23	02/05/23	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/08/23 13:53

MW-11
2302047-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGB0090	02/03/23	02/05/23	EPA 8260B	
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		"	"	"	"	"	"	

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.5	101 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.0	97.7 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.3	100 %		21-167		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	24.6	1.00		ug/l	1	BGB0081	02/03/23	02/03/23	EPA 200.8	

Anions by EPA Method 300.0

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	72.2	12.0		mg/L	200	BGB0132	02/06/23	02/07/23	EPA 300.0	
Sulfate	1850	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/08/23 13:53

MW-11
2302047-06 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **01/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2570	10.0		mg/L	1	BGB0111	02/05/23	02/05/23	SM2540C	

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 - Harper Kona

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/08/23 13:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGB0090 - EPA 5030 Water MS

Blank (BGB0090-BLK1)

Prepared: 02/03/23 Analyzed: 02/05/23

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	10.7		"	13.3		80.6	23-173			
Surrogate: Toluene-d8	13.3		"	13.3		99.6	20-170			
Surrogate: 4-Bromofluorobenzene	14.6		"	13.3		109	21-167			

LCS (BGB0090-BS1)

Prepared: 02/03/23 Analyzed: 02/05/23

Benzene	42.2	1.0	ug/l	33.3		127	51-132			
Toluene	42.1	1.0	"	33.3		126	51-138			
Ethylbenzene	36.9	1.0	"	33.3		111	58-146			
m,p-Xylene	74.0	2.0	"	66.7		111	57-144			
o-Xylene	38.4	1.0	"	33.3		115	53-146			
Naphthalene	33.5	1.0	"	33.3		100	70-130			
1,2,4-Trimethylbenzene	39.3	1.0	"	33.3		118	70-130			
1,3,5-Trimethylbenzene	38.4	1.0	"	33.3		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.5		"	13.3		94.1	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.4	21-167			

Matrix Spike (BGB0090-MS1)

Source: 2302047-01

Prepared: 02/03/23 Analyzed: 02/05/23

Benzene	44.9	1.0	ug/l	33.3	ND	135	34-141			
Toluene	41.6	1.0	"	33.3	ND	125	27-151			
Ethylbenzene	39.9	1.0	"	33.3	ND	120	29-160			
m,p-Xylene	79.3	2.0	"	66.7	ND	119	20-166			
o-Xylene	41.2	1.0	"	33.3	ND	124	33-159			
Naphthalene	35.9	1.0	"	33.3	ND	108	70-130			
1,2,4-Trimethylbenzene	41.4	1.0	"	33.3	ND	124	70-130			
1,3,5-Trimethylbenzene	41.5	1.0	"	33.3	ND	125	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.3		"	13.3		92.1	23-173			
Surrogate: Toluene-d8	14.0		"	13.3		105	20-170			
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	21-167			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/08/23 13:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGB0090 - EPA 5030 Water MS

Matrix Spike Dup (BGB0090-MSD1)	Source: 2302047-01			Prepared: 02/03/23 Analyzed: 02/05/23					
Benzene	43.8	1.0	ug/l	33.3	ND	131	34-141	2.50	30
Toluene	44.0	1.0	"	33.3	ND	132	27-151	5.56	30
Ethylbenzene	37.7	1.0	"	33.3	ND	113	29-160	5.80	30
m,p-Xylene	75.2	2.0	"	66.7	ND	113	20-166	5.32	30
o-Xylene	36.6	1.0	"	33.3	ND	110	33-159	12.0	30
Naphthalene	38.8	1.0	"	33.3	ND	117	70-130	7.76	30
1,2,4-Trimethylbenzene	37.7	1.0	"	33.3	ND	113	70-130	9.29	30
1,3,5-Trimethylbenzene	38.5	1.0	"	33.3	ND	116	70-130	7.52	30
Surrogate: 1,2-Dichloroethane-d4	15.1		"	13.3		113	23-173		
Surrogate: Toluene-d8	13.9		"	13.3		105	20-170		
Surrogate: 4-Bromofluorobenzene	12.0		"	13.3		90.3	21-167		

Summit Scientific

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 PO Box 1289
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Project: Noble - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/08/23 13:53

Dissolved Metals by EPA Method 200.8 - Quality Control

Summit Scientific

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

Batch BGB0081 - EPA 200.8

Blank (BGB0081-BLK1)

Prepared & Analyzed: 02/03/23

Barium ND 1.00 ug/l

LCS (BGB0081-BS1)

Prepared & Analyzed: 02/03/23

Barium 483 1.00 ug/l 500 96.5 85-115

Duplicate (BGB0081-DUP1)

Source: 2302002-01

Prepared & Analyzed: 02/03/23

Barium 124 1.00 ug/l 126 0.957 20

Matrix Spike (BGB0081-MS1)

Source: 2302002-01

Prepared & Analyzed: 02/03/23

Barium 601 1.00 ug/l 500 126 95.1 70-130

Matrix Spike Dup (BGB0081-MSD1)

Source: 2302002-01

Prepared & Analyzed: 02/03/23

Barium 623 1.00 ug/l 500 126 99.5 70-130 3.63 25

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 - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/08/23 13:53

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BGB0132 - General Preparation

Blank (BGB0132-BLK1)

Prepared: 02/06/23 Analyzed: 02/07/23

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

LCS (BGB0132-BS1)

Prepared: 02/06/23 Analyzed: 02/07/23

Chloride	3.12	0.0600	mg/L	3.00	104	90-110		
Sulfate	15.9	0.300	"	15.0	106	90-110		

Duplicate (BGB0132-DUP1)

Source: 2302019-01

Prepared: 02/06/23 Analyzed: 02/07/23

Chloride	93.4	12.0	mg/L		104		10.5	20
Sulfate	142	60.0	"		151		5.99	20

Matrix Spike (BGB0132-MS1)

Source: 2302019-01

Prepared: 02/06/23 Analyzed: 02/07/23

Chloride	584	12.0	mg/L	600	104	80.1	80-120	
Sulfate	3100	60.0	"	3000	151	98.4	80-120	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/08/23 13:53

Total Dissolved Solids by SM2540C - Quality Control

Summit Scientific

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

Batch BGB0111 - General Preparation

Blank (BGB0111-BLK1)

Prepared & Analyzed: 02/05/23

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BGB0111-DUP1)

Source: 2302016-01

Prepared & Analyzed: 02/05/23

Total Dissolved Solids 728 10.0 mg/L 714 1.84 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/08/23 13:53

Notes and Definitions

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