

SECOND QUARTER 2023 SITE MONITORING
DATA CARPIO A26-05 Facility
COGCC REMEDIATION # 20996

Prepared for:



2115 117th Avenue
Greeley, CO 80631

Prepared by:



6855 W. 119th Ave
Broomfield, CO 80020

TABLE 1
GROUNDWATER ELEVATION DATA
NOBLE ENERGY, INC. - CARPIO A26-05 FACILITY



Monitoring Well ID	Date	Top of Casing Elevation (ft. AMSL)	Total Depth (ft. BTOC)	Depth to Water (ft.) ⁽¹⁾	Depth to LNAPL (ft.) ⁽¹⁾	LNAPL Thickness (ft.)	Groundwater Elevation* (ft. AMSL)
BH01	06/22/22	4654.84	11.49	3.26	ND	ND	4651.64
BH01	09/12/22	4654.84	11.48	5.18	ND	ND	4649.72
BH01	11/16/22	4654.84	11.34	4.05	ND	ND	4650.85
BH01	02/02/23	4654.84	11.27	2.68	ND	ND	4652.22
BH01	05/16/23	4654.84	11.15	1.42	ND	ND	4653.48
BH02	06/22/22	4654.43	12.12	2.85	ND	ND	4651.64
BH02	09/12/22	4654.43	12.05	4.76	ND	ND	4649.73
BH02	11/16/22	4654.43	12.03	3.64	ND	ND	4650.85
BH02	02/02/23	4654.43	12.03	2.26	ND	ND	4652.23
BH02	05/16/23	4654.43	11.89	1.03	ND	ND	4653.46
BH03	06/22/22	4653.56	11.71	2.07	ND	ND	4651.62
BH03	09/12/22	4653.56	11.45	4.15	ND	ND	4649.54
BH03	11/16/22	4653.56	11.43	2.84	ND	ND	4650.85
BH03	02/02/23	4653.56	11.40	1.48	ND	ND	4652.21
BH03	05/16/23	4653.56	11.26	0.33	ND	ND	4653.36
BH04	06/22/22	4654.90	11.36	3.32	ND	ND	4651.64
BH04	09/12/22	4654.90	11.37	5.24	ND	ND	4649.72
BH04	11/16/22	4654.90	11.36	4.11	ND	ND	4650.85
BH04	02/02/23	4654.90	11.28	2.73	ND	ND	4652.23
BH04	05/16/23	4654.90	11.23	1.51	ND	ND	4653.45
BH05	06/22/22	4655.16	10.00	2.22	ND	ND	4653.10
BH05	09/12/22	4655.16	9.85	4.69	ND	ND	4650.63
BH05	11/16/22	4655.16	9.90	3.22	ND	ND	4652.10
BH05	02/02/23	4655.16	9.75	1.87	ND	ND	4653.45
BH05	05/16/23	4655.16	9.52	0.66	ND	ND	4654.66
BH06	11/16/22	4653.33	12.41	3.76	ND	ND	4649.63
BH06	02/02/23	4653.33	12.32	2.46	ND	ND	4650.93
BH06	05/16/23	4653.33	12.27	1.06	ND	ND	4652.33
BH07	11/16/22	4655.17	13.00	4.26	ND	ND	4648.91
BH07	02/02/23	4655.17	12.93	2.87	ND	ND	4650.30
BH07	05/16/23	4655.17	12.60	1.66	ND	ND	4651.51
BH08	11/16/22	4653.43	11.64	4.23	ND	ND	4649.20
BH08	02/02/23	4653.43	12.91	3.89	ND	ND	4649.54
BH08	05/16/23	4653.43	11.40	1.63	ND	ND	4651.80
BH09	11/16/22	4655.90	12.83	4.43	ND	ND	4649.16
BH09	02/02/23	4655.90	12.28	2.76	ND	ND	4650.83
BH09	05/16/23	4655.90	11.90	1.88	ND	ND	4651.71
BH10	11/16/22	4653.82	12.91	2.94	ND	ND	4648.52
BH10	02/02/23	4653.82	11.62	0.39	ND	ND	4651.07
BH10	05/16/23	4653.82	13.04	0.32	ND	ND	4651.14

Notes:

⁽¹⁾ Depth to water measurements were collected from top of casing and adjusted using survey data to reflect depth of water from ground surface.

* Groundwater elevation was corrected for product thickness (when present) using the following calculation:

Groundwater elevation = (TOC Elevation - Measured Depth to Water)+(LNAPL Thickness in Well x LNAPL Relative Density)

LNAPL relative density was estimated to be 0.75

Definitions:

ft. = Feet
 AMSL = Above mean sea level
 BTOC = Below top of casing
 BGS = Below ground surface
 LNAPL = Light non-aqueous phase liquid
 ND = No LNAPL detected

TABLE 2
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - CARPIO A26-05 FACILITY



Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-TMB (µg/L)	1,3,5-TMB (µg/L)	TDS (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
COGCC Standard		5	560	700	1,400	140	67	67	<1.25 x Background	250 or <1.25 x Background	250 or <1.25 x Background
GW01@3.5'	03/11/22	21	91	9.3	97	3.0	22	9.3	NA	NA	NA
BH01	06/22/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,730	67.8	1,510
BH01	09/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,920	31.0	1,820
BH01	11/16/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,250	33.2	624
BH01	02/02/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,490	38.2	899
BH01	05/16/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,660	68.2	1,400
BH02	06/22/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,350	34.8	1,280
BH02	09/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,290	29.4	1,250
BH02	11/16/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,090	32.6	496
BH02	02/02/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,160	37.2	657
BH02	05/16/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,470	58.4	1,050
BH03	06/22/22	100	110	92	5,600	9.6	170	74	1,620	64.6	1,290
BH03	09/12/22	34	<1.0	1.3	<2.0	<1.0	3.9	<1.0	1,580	27.8	1,540
BH03	11/16/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,280	30.4	694
BH03	02/02/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,330	37.4	804
BH03	05/16/23	1.8	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,550	51.4	1,200
BH04	06/22/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,700	69.0	1,460
BH04	09/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,620	37.4	1,560
BH04	11/16/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,280	42.6	607
BH04	02/02/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,400	39.6	864
BH04	05/16/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,490	44.6	1,040
BH05	06/22/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,730	37.0	1,660
BH05	09/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,640	34.0	1,590
BH05	11/16/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,390	24.0	634
BH05 ⁽²⁾	02/02/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,610	42.4	1010
BH05 ⁽²⁾	05/16/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,990	41.8	1,670
BH06	11/16/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,160	30.4	505
BH06	02/02/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,260	33.2	805
BH06	05/16/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,680	84.0	1,160
BH07	11/16/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,150	27.0	551
BH07	02/02/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,340	36.0	844
BH07	05/16/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,500	156	1,850
BH08	11/16/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,180	25.6	640
BH08	02/02/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,440	38.4	879
BH08	05/16/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,540	59.0	1,020
BH09	11/16/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,210	19.6	502
BH09	02/02/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,360	34.6	849
BH09	05/16/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,650	41.6	1,140
BH10	11/16/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,210	18.0	393
BH10	02/02/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,500	39.4	958
BH10	05/16/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,810	27.8	1,440

Notes:

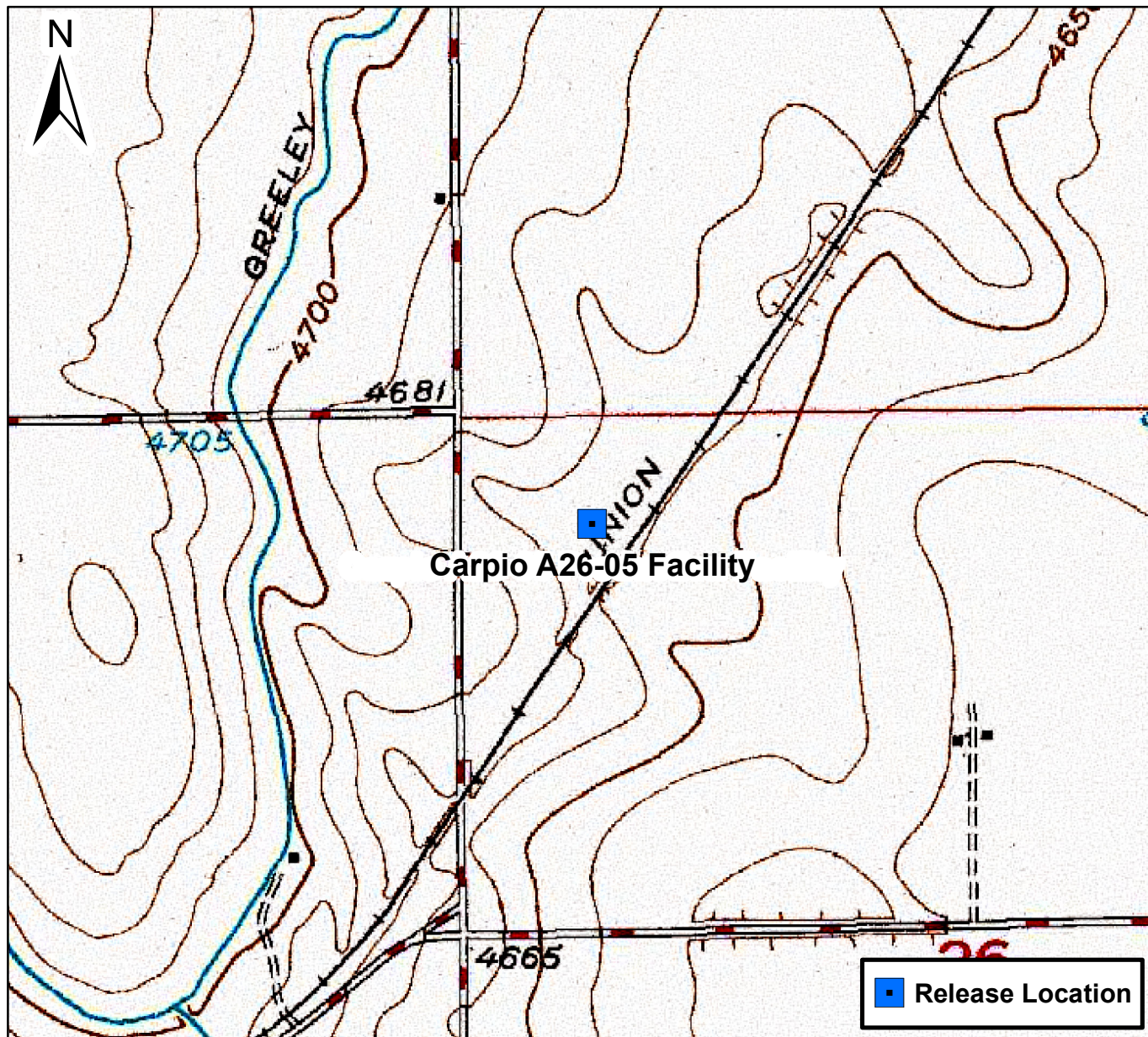
⁽¹⁾ Groundwater standards referenced from 2 CCR 404-1, Table 915-1 (January 15, 2021).

⁽²⁾ Monitoring well used for inorganic background levels.

Definitions:

< = Analytical result is less than the indicated laboratory reporting limit
COGCC = Colorado Oil and Gas Conservation Commission
mg/L = Milligrams per liter
µg/L = Micrograms per liter
1,2,4 - TMB = 1,2,4 Trimethylbenzene
1,3,5 - TMB = 1,3,5 Trimethylbenzene
TDS = Total Dissolved Solids
NA = Not analyzed

Highlighted results are equal to or exceed the COGCC Table 915-1 standard



0 1,000 2,000 Feet

Figure 1

Site Location Map
Carpio A26-05 Facility
SWNE S26 T6N R64W
Weld County, Colorado





DATE:	03/27/2023
DESIGNED BY:	JW
DRAWN BY:	HM

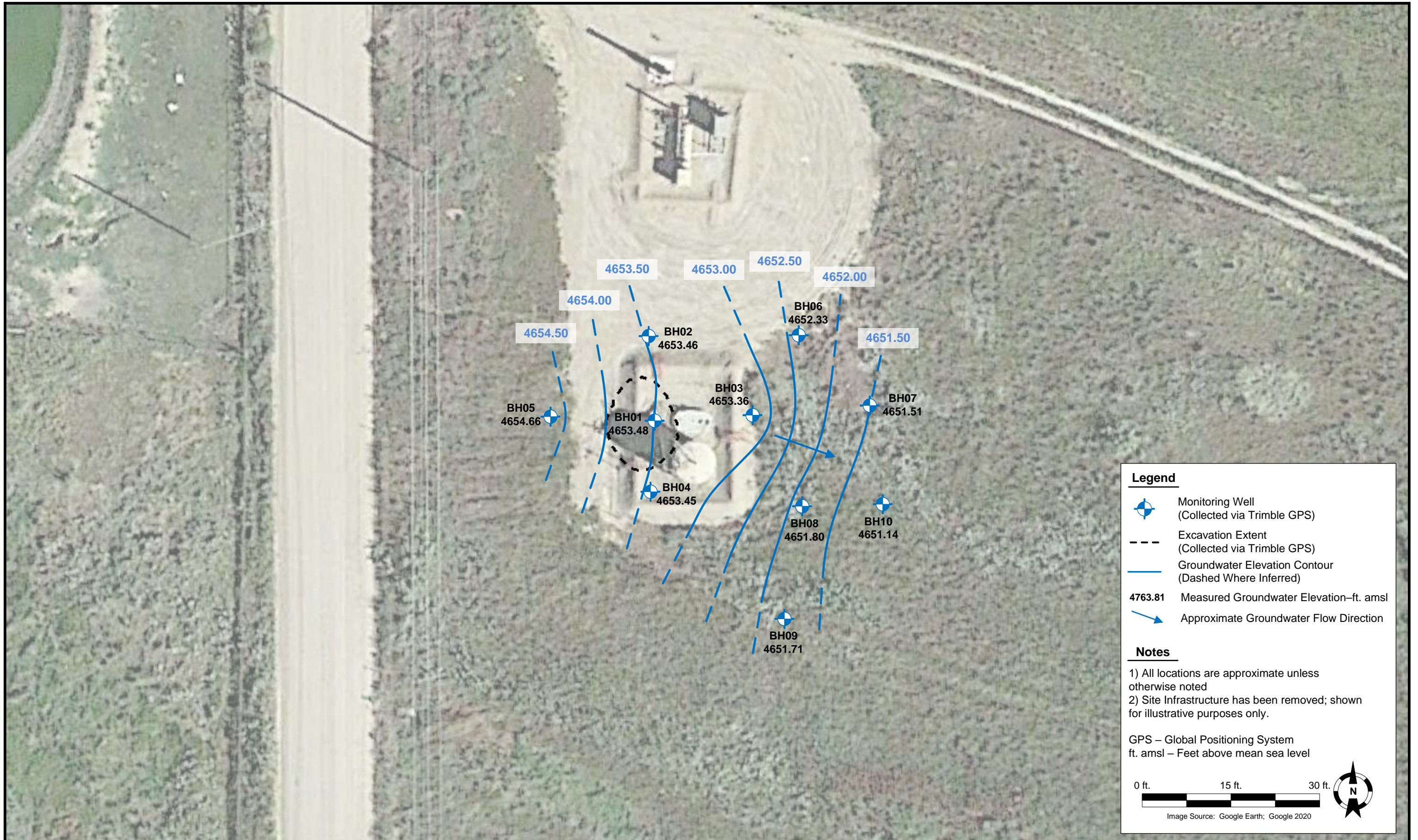


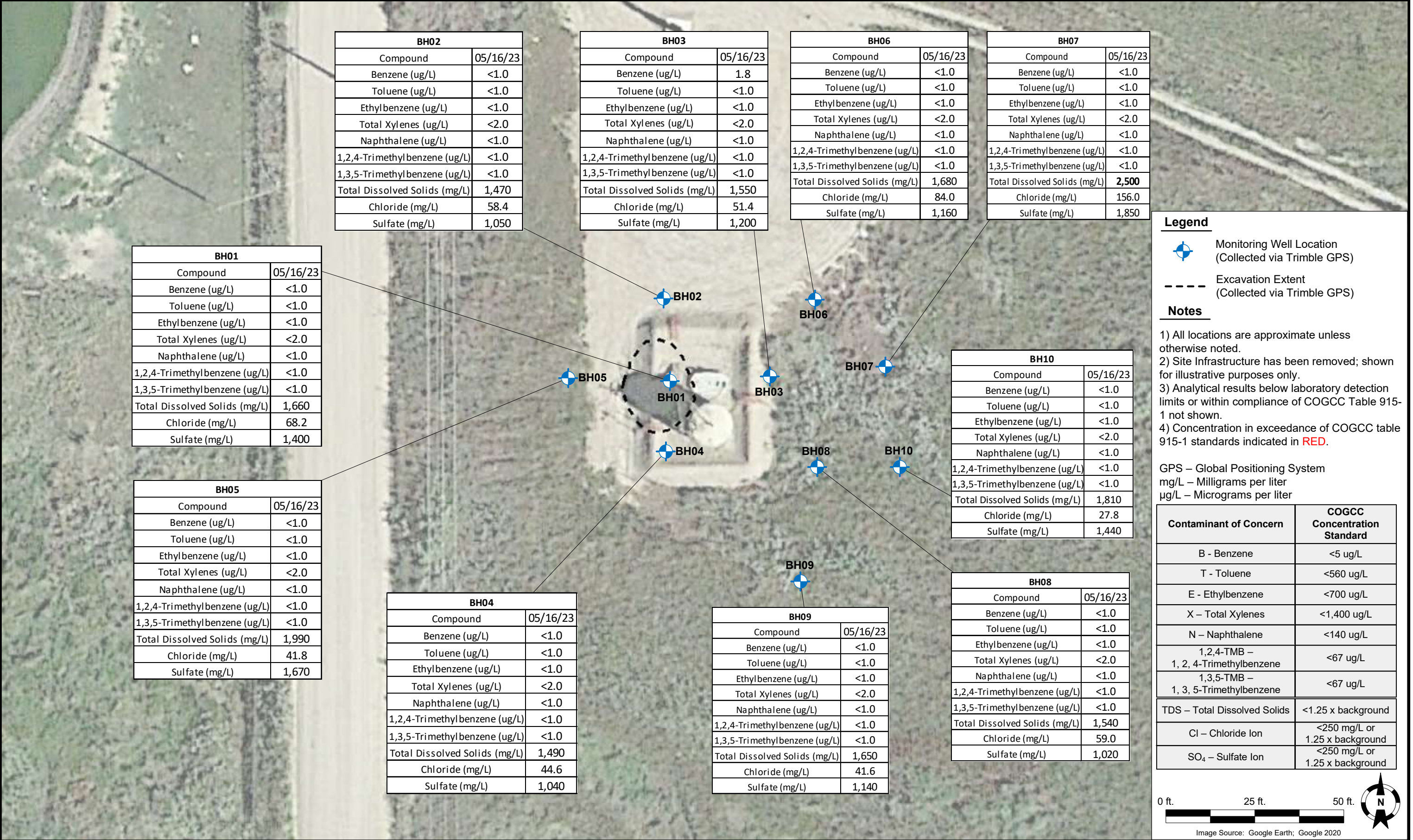
TASMAN
Tasman, Inc.
6855 W 119th Avenue
Broomfield, CO 80020

**Noble Energy, Inc. – DJ Basin
Carpio A26-05 Facility**
SWNE, Section 26, Township 6 North, Range 64 West
Weld County, Colorado

Site Overview Map

**FIGURE
2**





Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 24, 2023

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Carpio A26-05 FAC

Work Order #2305387

Enclosed are the results of analyses for samples received by Summit Scientific on 05/16/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacob Wood For Paul Shrewsbury

President



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Carpio A26-05 FAC
Project Number: UWRWE-A1698-ABN
Project Manager: Jacob Whritenour

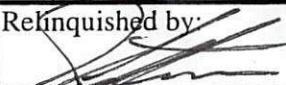

Reported:
05/24/23 14:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	2305387-01	Water	05/16/23 11:02	05/16/23 16:30
BH02	2305387-02	Water	05/16/23 10:50	05/16/23 16:30
BH03	2305387-03	Water	05/16/23 10:59	05/16/23 16:30
BH04	2305387-04	Water	05/16/23 10:24	05/16/23 16:30
BH05	2305387-05	Water	05/16/23 10:10	05/16/23 16:30
BH06	2305387-06	Water	05/16/23 10:48	05/16/23 16:30
BH07	2305387-07	Water	05/16/23 10:36	05/16/23 16:30
BH08	2305387-08	Water	05/16/23 10:38	05/16/23 16:30
BH09	2305387-09	Water	05/16/23 10:07	05/16/23 16:30
BH10	2305387-10	Water	05/16/23 10:22	05/16/23 16:30

		Send Data To:	Send Invoice To:
Client: Noble / Tasman, Inc.		Project Manager: Jake Whritenour	Company: Noble Energy, Inc.
Address: 6855 W. 119th Ave.		E-Mail: Jwhritenour@tasman-geo.com	Project Name/Location: <u>Carpio AZG-05 (FAC)</u>
City/State/Zip: Broomfield / CO / 80020			AFE#:
Phone: 303-487-1228		Project Name: <u>Carpio AZG-05 (FAC)</u>	PO/Billing Codes:
Sampler Name: Patrick Kline		Project Number: N/A	Contact: Dan Peterson

				Preservative				Matrix				Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	1,2,4-TMB	1,3,5-TMB	TDS	Chloride	Sulfate	PAH	
1	BH01	5/16/23	1102	4	3		1		X				X	X	X	X	X	X	X		
2	BH02		1050																		
3	BH03		1059																		
4	BH04		1024																		
5	BH05		1010																		
6	BH06		1048																		
7	BH07		1036																		
8	BH08		1038																		
9	BH09		1007																		
10	BH10		1022																		
11																					
12																					
13																					
14																					
15																					

Relinquished by: 	Date/Time: 5/16/23 1430	Received by: Summit North Office	Date/Time: 5/16/23 1430	TAT Business Days	Field DO	Notes:
Relinquished by: SZ	Date/Time: 5/16/23 1630	Received by: 	Date/Time: 5/16/23 1630	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	X Field Turb.	
Temperature Upon Receipt: 8.4	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2305387Client: Noble/Tasman Client Project ID: Carpio AZC-05(FAC)Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☒ Other ☐Temp (°C) 8.4Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature $< 6^{\circ}\text{C}$? ⁽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>OUTSIDE</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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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_2SO_4 , NaOH, HNO_3 , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>HCl</u>
If samples are acid preserved for metals, is the $\text{pH} \leq 2$? ⁽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

5/14/23
Date/Time



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Carpio A26-05 FAC
Project Number: UWRWE-A1698-ABN
Project Manager: Jacob Whritenour

Reported:
05/24/23 14:56

BH01
2305387-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/16/23 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BGE0607	05/17/23	05/17/23	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: **05/16/23 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	14.8	111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.1	98.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.4	100 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/16/23 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	68.2	12.0	mg/L	200	BGE0680	05/19/23	05/19/23	EPA 300.0	
Sulfate	1400	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/16/23 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	1660	10.0	mg/L	1	BGE0616	05/17/23	05/17/23	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.



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Carpio A26-05 FAC
Project Number: UWRWE-A1698-ABN
Project Manager: Jacob Whritenour

Reported:
05/24/23 14:56

BH02
2305387-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/16/23 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGE0607	05/17/23	05/17/23	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: **05/16/23 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.5	101 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	12.4	93.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.3	99.7 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/16/23 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	58.4	12.0	mg/L	200	BGE0680	05/19/23	05/19/23	EPA 300.0	
Sulfate	1050	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/16/23 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1470	10.0	mg/L	1	BGE0616	05/17/23	05/17/23	SM2540C	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Carpio A26-05 FAC
Project Number: UWRWE-A1698-ABN
Project Manager: Jacob Whritenour

Reported:
05/24/23 14:56

BH03
2305387-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/16/23 10:59**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	1.8	1.0	ug/l	1	BGE0607	05/17/23	05/17/23	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: **05/16/23 10:59**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	14.6	110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	99.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.9	96.6 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/16/23 10:59**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	51.4	12.0	mg/L	200	BGE0680	05/19/23	05/19/23	EPA 300.0	
Sulfate	1200	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/16/23 10:59**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1550	10.0	mg/L	1	BGE0616	05/17/23	05/17/23	SM2540C	

Summit Scientific

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Project: Noble - Carpio A26-05 FAC
Project Number: UWRWE-A1698-ABN
Project Manager: Jacob Whritenour

Reported:
05/24/23 14:56

BH04
2305387-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/16/23 10:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGE0607	05/17/23	05/17/23	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: **05/16/23 10:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	14.8	111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.3	99.7 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/16/23 10:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	44.6	12.0	mg/L	200	BGE0680	05/19/23	05/19/23	EPA 300.0	
Sulfate	1040	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/16/23 10:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1490	10.0	mg/L	1	BGE0616	05/17/23	05/17/23	SM2540C	

Summit Scientific

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Project: Noble - Carpio A26-05 FAC
Project Number: UWRWE-A1698-ABN
Project Manager: Jacob Whritenour

Reported:
05/24/23 14:56

BH05
2305387-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/16/23 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGE0607	05/17/23	05/17/23	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: **05/16/23 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	14.6	109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.1	98.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.2	99.4 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/16/23 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	41.8	12.0	mg/L	200	BGE0680	05/19/23	05/19/23	EPA 300.0	
Sulfate	1670	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/16/23 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1990	10.0	mg/L	1	BGE0616	05/17/23	05/17/23	SM2540C	

Summit Scientific

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Project: Noble - Carpio A26-05 FAC
Project Number: UWRWE-A1698-ABN
Project Manager: Jacob Whritenour

Reported:
05/24/23 14:56

BH06
2305387-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/16/23 10:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGE0607	05/17/23	05/17/23	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: **05/16/23 10:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.8	103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	12.5	93.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.3	99.9 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/16/23 10:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	84.0	12.0	mg/L	200	BGE0680	05/19/23	05/19/23	EPA 300.0	
Sulfate	1160	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/16/23 10:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1680	10.0	mg/L	1	BGE0616	05/17/23	05/17/23	SM2540C	

Summit Scientific

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Project: Noble - Carpio A26-05 FAC
Project Number: UWRWE-A1698-ABN
Project Manager: Jacob Whritenour

Reported:
05/24/23 14:56

BH07
2305387-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/16/23 10:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGE0607	05/17/23	05/17/23	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: **05/16/23 10:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	14.7	110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	99.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.1	98.2 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/16/23 10:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	156	12.0	mg/L	200	BGE0680	05/19/23	05/19/23	EPA 300.0	
Sulfate	1850	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/16/23 10:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	2500	10.0	mg/L	1	BGE0616	05/17/23	05/17/23	SM2540C	

Summit Scientific

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Project: Noble - Carpio A26-05 FAC
Project Number: UWRWE-A1698-ABN
Project Manager: Jacob Whritenour

Reported:
05/24/23 14:56

BH08
2305387-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/16/23 10:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGE0607	05/17/23	05/17/23	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: **05/16/23 10:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	14.5	109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	98.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.2	99.3 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/16/23 10:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	59.0	12.0	mg/L	200	BGE0680	05/19/23	05/19/23	EPA 300.0	
Sulfate	1020	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/16/23 10:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1540	10.0	mg/L	1	BGE0616	05/17/23	05/17/23	SM2540C	

Summit Scientific

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Project: Noble - Carpio A26-05 FAC
Project Number: UWRWE-A1698-ABN
Project Manager: Jacob Whritenour

Reported:
05/24/23 14:56

BH09
2305387-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/16/23 10:07**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGE0607	05/17/23	05/17/23	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: **05/16/23 10:07**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	14.3	107 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.1	98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.3	99.7 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/16/23 10:07**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	41.6	12.0	mg/L	200	BGE0680	05/19/23	05/19/23	EPA 300.0	
Sulfate	1140	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/16/23 10:07**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1650	10.0	mg/L	1	BGE0616	05/17/23	05/17/23	SM2540C	

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Project: Noble - Carpio A26-05 FAC
Project Number: UWRWE-A1698-ABN
Project Manager: Jacob Whritenour

Reported:
05/24/23 14:56

BH10
2305387-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/16/23 10:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGE0607	05/17/23	05/18/23	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: **05/16/23 10:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.8	103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	12.6	94.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.2	98.7 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/16/23 10:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	27.8	12.0	mg/L	200	BGE0680	05/19/23	05/19/23	EPA 300.0	
Sulfate	1440	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/16/23 10:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1810	10.0	mg/L	1	BGE0616	05/17/23	05/17/23	SM2540C	

Summit Scientific

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Project: Noble - Carpio A26-05 FAC
Project Number: UWRWE-A1698-ABN
Project Manager: Jacob Whritenour

Reported:
05/24/23 14:56

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGE0607 - EPA 5030 Water MS

Blank (BGE0607-BLK1)

Prepared & Analyzed: 05/17/23

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.3		108	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.3	20-170			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.8	21-167			

LCS (BGE0607-BS1)

Prepared & Analyzed: 05/17/23

Benzene	36.1	1.0	ug/l	41.7		86.7	51-132			
Toluene	38.4	1.0	"	41.7		92.2	51-138			
Ethylbenzene	44.2	1.0	"	41.7		106	58-146			
m,p-Xylene	90.5	2.0	"	83.3		109	57-144			
o-Xylene	43.3	1.0	"	41.7		104	53-146			
Naphthalene	43.5	1.0	"	41.7		104	70-130			
1,2,4-Trimethylbenzene	49.6	1.0	"	41.7		119	70-130			
1,3,5-Trimethylbenzene	49.7	1.0	"	41.7		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		107	23-173			
Surrogate: Toluene-d8	12.8		"	13.3		95.9	20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.5	21-167			

Matrix Spike (BGE0607-MS1)

Source: 2305387-01

Prepared & Analyzed: 05/17/23

Benzene	37.9	1.0	ug/l	41.7	ND	91.0	34-141			
Toluene	39.8	1.0	"	41.7	ND	95.5	27-151			
Ethylbenzene	44.1	1.0	"	41.7	ND	106	29-160			
m,p-Xylene	90.0	2.0	"	83.3	ND	108	20-166			
o-Xylene	43.3	1.0	"	41.7	ND	104	33-159			
Naphthalene	48.4	1.0	"	41.7	ND	116	70-130			
1,2,4-Trimethylbenzene	49.8	1.0	"	41.7	ND	120	70-130			
1,3,5-Trimethylbenzene	49.7	1.0	"	41.7	ND	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	15.0		"	13.3		113	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.4	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		98.7	21-167			

Summit Scientific

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Project: Noble - Carpio A26-05 FAC
Project Number: UWRWE-A1698-ABN
Project Manager: Jacob Whritenour

Reported:
05/24/23 14:56

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BGE0607 - EPA 5030 Water MS

Matrix Spike Dup (BGE0607-MSD1)	Source: 2305387-01			Prepared & Analyzed: 05/17/23						
Benzene	38.1	1.0	ug/l	41.7	ND	91.4	34-141	0.447	30	
Toluene	39.7	1.0	"	41.7	ND	95.3	27-151	0.226	30	
Ethylbenzene	44.4	1.0	"	41.7	ND	106	29-160	0.565	30	
m,p-Xylene	89.9	2.0	"	83.3	ND	108	20-166	0.133	30	
o-Xylene	43.2	1.0	"	41.7	ND	104	33-159	0.208	30	
Naphthalene	49.4	1.0	"	41.7	ND	119	70-130	2.07	30	
1,2,4-Trimethylbenzene	49.4	1.0	"	41.7	ND	119	70-130	0.846	30	
1,3,5-Trimethylbenzene	49.7	1.0	"	41.7	ND	119	70-130	0.0805	30	
Surrogate: 1,2-Dichloroethane-d4	15.3		"	13.3		115	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		99.4	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.7	21-167			



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Carpio A26-05 FAC
Project Number: UWRWE-A1698-ABN
Project Manager: Jacob Whritenour

Reported:
05/24/23 14:56

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BGE0680 - General Preparation

Blank (BGE0680-BLK1)

Prepared & Analyzed: 05/19/23

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

LCS (BGE0680-BS1)

Prepared & Analyzed: 05/19/23

Chloride	2.79	0.0600	mg/L	3.00	93.0	90-110
Sulfate	13.5	0.300	"	15.0	90.1	90-110

Duplicate (BGE0680-DUP1)

Source: 2305350-01

Prepared & Analyzed: 05/19/23

Chloride	45.8	12.0	mg/L	44.0	4.01	20
Sulfate	114	60.0	"	129	12.3	20

Matrix Spike (BGE0680-MS1)

Source: 2305350-01

Prepared & Analyzed: 05/19/23

Chloride	640	12.0	mg/L	600	44.0	99.3	80-120
Sulfate	3130	60.0	"	3000	129	100	80-120

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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.



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Reported:
05/24/23 14:56

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BGE0616 - General Preparation

Blank (BGE0616-BLK1)

Prepared & Analyzed: 05/17/23

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BGE0616-DUP1)

Source: 2305387-01

Prepared & Analyzed: 05/17/23

Total Dissolved Solids 1760 10.0 mg/L 1660 5.50 20



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Project Manager: Jacob Whritenour

Reported:
05/24/23 14:56

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