

FIRST QUARTER 2024 SITE MONITORING DATA
THOMPSON D20-31D

ECMC SPILL TRACKING # 483919
ECMC REMEDIATION # 26337

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. - THOMPSON D20-31D 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	06/19/23	4737.51	14.40	4.92	ND	ND	4733.01
BH01	09/01/23	4737.51	14.42	4.43	ND	ND	4733.50
BH01	12/06/23	4737.51	14.34	6.39	ND	ND	4731.54
BH01	03/11/24	4737.51	14.05	6.58	ND	ND	4731.35
BH02	06/19/23	4738.31	14.57	5.62	ND	ND	4732.98
BH02	09/01/23	4738.31	14.57	5.39	ND	ND	4733.21
BH02	12/06/23	4738.31	14.58	7.07	ND	ND	4731.53
BH02	03/11/24	4738.31	14.58	7.26	ND	ND	4731.34
BH03	06/19/23	4737.75	14.88	5.01	ND	ND	4733.07
BH03	09/01/23	4737.75	14.87	4.66	ND	ND	4733.42
BH03	12/06/23	4737.75	14.85	6.50	ND	ND	4731.58
BH03	03/11/24	4737.75	14.83	6.68	ND	ND	4731.40
BH04	06/19/23	4738.35	14.77	5.74	ND	ND	4733.00
BH04	09/01/23	4738.35	14.70	5.38	ND	ND	4733.36
BH04	12/06/23	4738.35	14.71	7.17	ND	ND	4731.57
BH04	03/11/24	4738.35	14.64	7.36	ND	ND	4731.38
BH05	06/19/23	4737.21	14.85	5.89	ND	ND	4732.76
BH05	09/01/23	4737.21	14.91	5.76	ND	ND	4732.89
BH05	12/06/23	4737.21	14.91	7.19	ND	ND	4731.46
BH05	03/11/24	4737.21	14.72	7.39	ND	ND	4731.26
BH06	06/19/23	4737.67	14.73	5.30	ND	ND	4732.83
BH06	09/01/23	4737.67	14.76	4.93	ND	ND	4733.20
BH06	12/06/23	4737.67	14.53	6.63	ND	ND	4731.50
BH06	03/11/24	4737.67	14.38	6.83	ND	ND	4731.30
BH07	06/19/23	4737.73	14.74	5.40	ND	ND	4732.70
BH07	09/01/23	4737.73	14.69	5.32	ND	ND	4732.78
BH07	12/06/23	4737.73	14.66	8.69	ND	ND	4729.41
BH07	03/11/24	4737.73	14.71	6.88	ND	ND	4731.22
BH08	06/19/23	4738.15	14.41	5.63	ND	ND	4732.77
BH08	09/01/23	4738.15	14.68	5.43	ND	ND	4732.97
BH08	12/06/23	4738.15	14.40	6.93	ND	ND	4731.47
BH08	03/11/24	4738.15	14.35	7.15	ND	ND	4731.25
BH09	06/19/23	4738.15	15.02	5.66	ND	ND	4732.88
BH09	09/01/23	4738.15	15.07	5.41	ND	ND	4733.13
BH09	12/06/23	4738.15	14.98	7.07	ND	ND	4731.47
BH09	03/11/24	4738.15	15.02	7.25	ND	ND	4731.29
BH10	06/19/23	4742.54	18.61	5.66	ND	ND	4732.76
BH10	09/01/23	4742.54	18.65	5.52	ND	ND	4732.90
BH10	12/06/23	4742.54	18.81	3.22	ND	ND	4735.20
BH10	03/11/24	4742.54	18.55	7.20	ND	ND	4731.22
BH11	06/19/23	4738.51	15.01	5.87	ND	ND	4732.81
BH11	09/01/23	4738.51	14.99	5.71	ND	ND	4732.97
BH11	12/06/23	4738.51	15.00	7.22	ND	ND	4731.46
BH11	03/11/24	4738.51	15.13	7.42	ND	ND	4731.26
BH12	06/19/23	4737.90	14.97	5.30	ND	ND	4732.89
BH12	09/01/23	4737.90	14.96	5.16	ND	ND	4733.03

TABLE 1
GROUNDWATER ELEVATION DATA
NOBLE ENERGY, INC. - THOMPSON D20-31D 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)
BH12	12/06/23	4737.90	14.81	6.68	ND	ND	4731.51
BH12	03/11/24	4737.90	14.78	6.83	ND	ND	4731.36
BH13	06/19/23	4742.50	18.56	5.82	ND	ND	4732.95
BH13	09/01/23	4742.50	18.56	5.71	ND	ND	4733.06
BH13	12/06/23	4742.50	18.01	3.75	ND	ND	4735.02
BH13	03/11/24	Monitoring Well Destroyed					

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. - THOMPSON D20-31D 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)	1-M (µg/L)	2-M (µg/L)	TDS (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
ECMC Standard ⁽¹⁾		5	560	700	1,400	140	67	67	1.1 ⁽²⁾	3.6 ⁽²⁾	<1.25 x Background	250 or <1.25 x Background	250 or <1.25 x Background
BH01	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	683	21.4	171
BH01	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,560	156	511
BH01	12/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,600	241	880
BH01	03/11/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,210	249	1,030
BH02	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,530	333	1,420
BH02	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,300	260	681
BH02	12/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,470	237	719
BH02	03/11/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,870	215	763
BH03	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,280	326	1,220
BH03	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,030	244	684
BH03	12/06/26	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,580	252	849
BH03	03/11/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,280	328	1,010
BH04	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,350	295	1,270
BH04	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,600	284	935
BH04	12/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,820	287	987
BH04	03/11/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,490	321	1,080
BH05	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,110	89.0	377
BH05	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,780	178	582
BH05	12/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,350	145	555
BH05	03/11/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,200	276	897
BH06	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,400	319	1,400
BH06	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,350	264	870
BH06	12/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,670	248	927
BH06	03/11/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,420	336	1,130
BH07	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,080	53.2	239
BH07	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,730	149	542
BH07	12/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,460	198	719
BH07	03/11/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,260	288	930
BH08	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,430	330	1,300
BH08	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,170	211	735
BH08	12/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,750	270	992
BH08	03/11/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,100	277	857
BH09	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,340	314	1,500
BH09	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,000	232	710
BH09	12/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,120	414	1,210
BH09	03/11/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,780	379	1,270
BH10	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,750	388	1,610
BH10	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,840	203	618
BH10	12/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,290	465	1,250
BH10	03/11/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,900	422	1,360
⁽³⁾ BH11	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,270	347	1,290
⁽³⁾ BH11	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,160	232	777

TABLE 2
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - THOMPSON D20-31D 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)	1-M (µg/L)	2-M (µg/L)	TDS (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
ECMC Standard ⁽¹⁾		5	560	700	1,400	140	67	67	1.1 ⁽²⁾	3.6 ⁽²⁾	<1.25 x Background	250 or <1.25 x Background	250 or <1.25 x Background
⁽³⁾ BH11	12/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,410	476	1,440
⁽³⁾ BH11	03/11/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,880	392	1,330
BH12	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,260	297	1,220
BH12	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,930	241	682
BH12	12/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,390	479	1,460
BH12	03/11/24	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,800	398	1,300
BH13	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,710	382	1,560
BH13	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,940	237	714
BH13	12/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,520	538	1,460
BH13	03/11/24	Monitoring Well Destroyed											

Notes:

- ⁽¹⁾ Groundwater standards referenced from 2 CCR 404-1, Table 915-1 (January 15, 2021).
- ⁽²⁾ Groundwater standards referenced from USEPA Regional Screening Level (RSL) Resident Tapwater Table (TR=1E-06, HQ=0.1) November 2022.
- ⁽³⁾ Monitoring well used for inorganic background levels.

Definitions:

- < = Analytical result is less than the indicated laboratory reporting limit
- ECMC = Colorado Energy and Carbon Management 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
- 1-M = 1-Methylnaphthalene
- 2-M = 2-Methylnaphthalene
- TDS = Total Dissolved Solids
- USEPA = United States Environmental Protection Agency

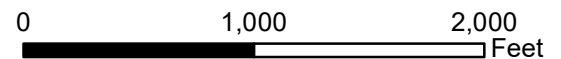
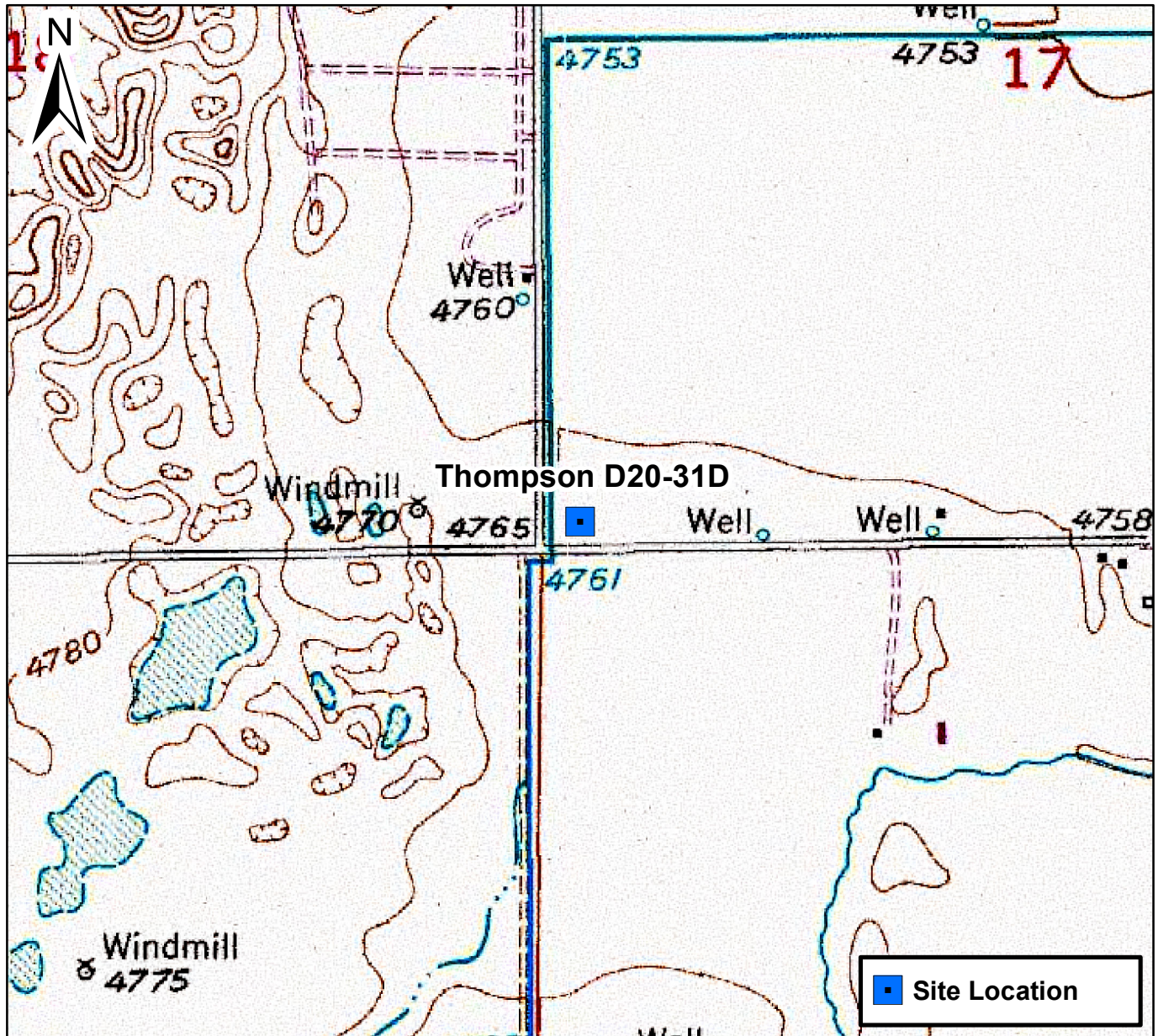



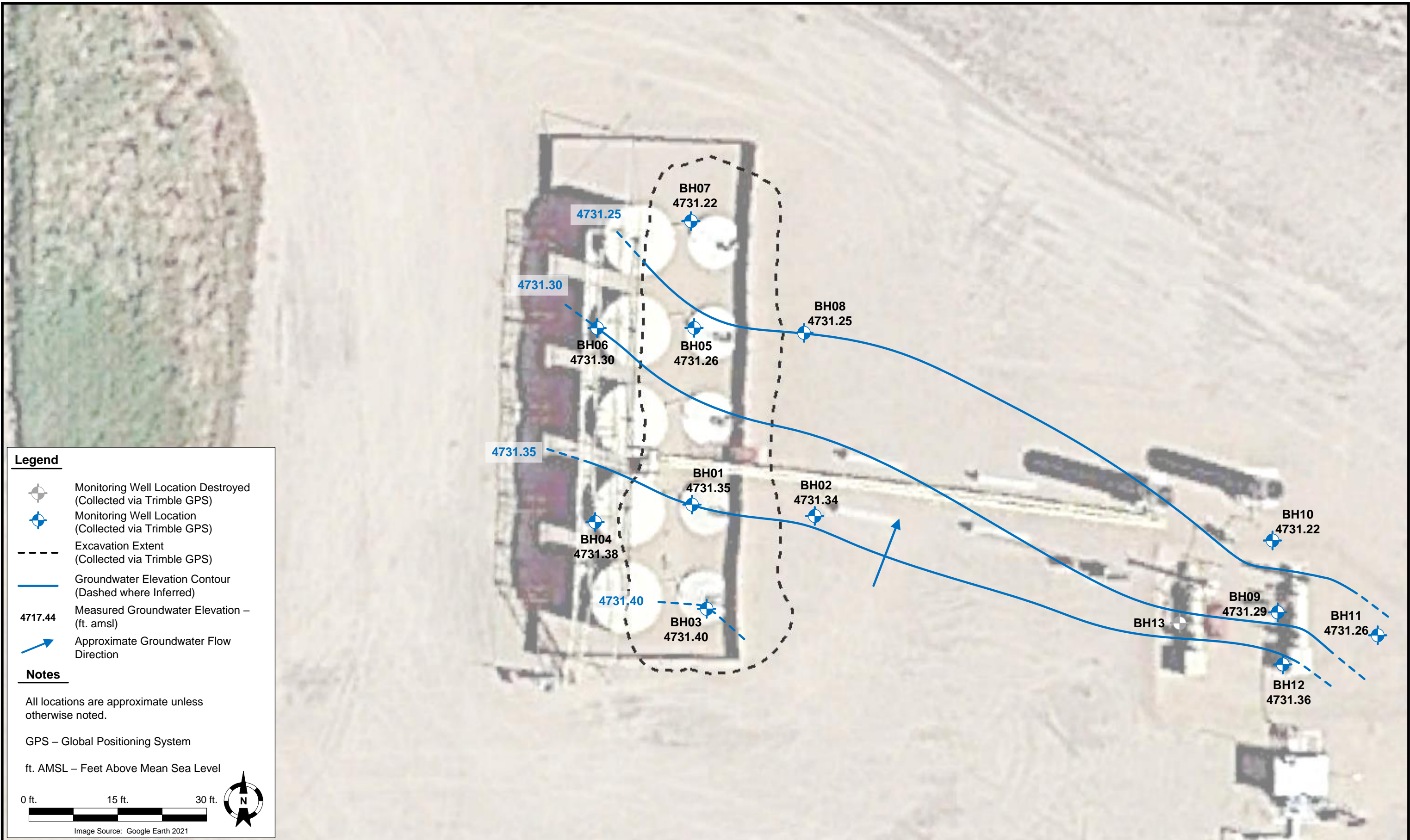
Figure 1

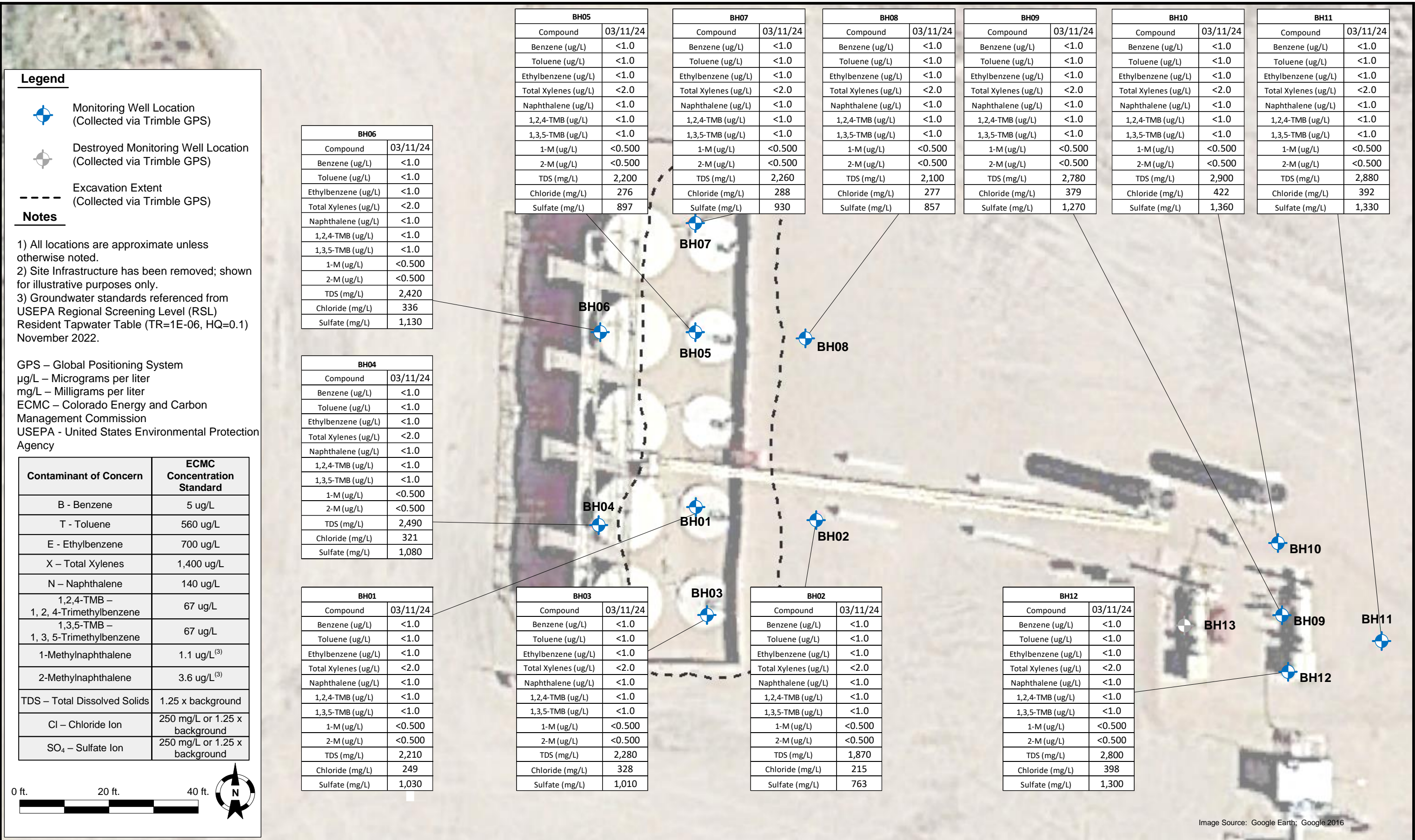
Site Location Map
Thompson D20-31D
SWSW S17 T3N R64W
Weld County, Colorado





DATE: 03/22/2024	 <div>Tasman, Inc. 6855 W 119th Avenue Broomfield, CO 80020</div>	Noble Energy, Inc. – DJ Basin Thompson D20-31D FAC SWSW, Section 17, Township 3 North, Range 64 West Weld County, Colorado	Site Overview Map	Figure 2
DESIGNED BY: JW				
DRAWN BY: TL				





Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 21, 2024

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

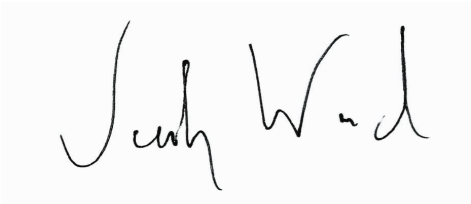
Broomfield, CO 80020

RE: Noble - Thompson D20-31D

Work Order #2403166

Enclosed are the results of analyses for samples received by Summit Scientific on 03/11/24 17:54. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood", is displayed on a light gray rectangular background.

Jacob Wood For Paul Shrewsbury

President



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

Project: Noble - Thompson D20-31D

Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	2403166-01	Water	03/11/24 11:50	03/11/24 17:54
BH02	2403166-02	Water	03/11/24 11:06	03/11/24 17:54
BH03	2403166-03	Water	03/11/24 11:31	03/11/24 17:54
BH04	2403166-04	Water	03/11/24 12:10	03/11/24 17:54
BH05	2403166-05	Water	03/11/24 10:46	03/11/24 17:54
BH06	2403166-06	Water	03/11/24 11:58	03/11/24 17:54
BH07	2403166-07	Water	03/11/24 10:50	03/11/24 17:54
BH08	2403166-08	Water	03/11/24 12:22	03/11/24 17:54
BH09	2403166-09	Water	03/11/24 12:32	03/11/24 17:54
BH10	2403166-10	Water	03/11/24 12:50	03/11/24 17:54
BH11	2403166-11	Water	03/11/24 12:54	03/11/24 17:54
BH12	2403166-12	Water	03/11/24 13:17	03/11/24 17:54

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.

Client: Noble/Tasman		Send Data To:		Send Invoice To:	
Address: 6855 W. 119th Ave.		Project Manager: Jake Whritenour		Company: <u>Chevron</u>	
City/State/Zip: Broomfield/CO/ 80020		E-Mail: Jwhritenour@tasman-geo.com		Project Name/Location: <u>Thompson 220-31D</u>	
Phone: <u>(317) 445-0601</u>		Project Name: <u>Thompson 220-31D</u>		AFE#:	
Sampler Name: <u>Luke Moran, Molly Parks</u>		Project Number:		PO/Billing Codes:	
				Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN	1,2,4 & 1,3,5-TMBs	TDS, Cl, SO4	PAHs*	
1	BH01	3/11/24	1150	6	3		3		X				X	X	X	X	
2	BH02		1106														
3	BH03		1131														
4	BH04		1210														
5	BH05		1046														
6	BH06		1158														
7	BH07		1050														
8	BH08		1222														
9	BH09		1232														
10	BH10		1250														
11	BH11		1254														
12	BH12		1317														
13																	
14																	
15																	

Relinquished by: <u>Luke Moran</u>	Date/Time: <u>3/11/24 1700</u>	Received by: <u>Tasman Lock Box</u>	Date/Time: <u>3/11/24 1700</u>	TAT Business Days	Field DO	* Notes: <u>PAHs: 1-M and 2-M</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
<u>Tasman Lock Box</u>	<u>3/11/24 1754</u>	<u>[Signature]</u>	<u>3/11/24 1754</u>	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: <u>7.6</u>	Corrected Temperature: <u>8</u>	IR gun #: <u>1</u>	HNO3 lot #:	Standard	<u>X</u> Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2403166Client: N. HartmanClient Project ID: Thompson D20-310Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

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Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☒

Other

☐

Temp (°C)

7.6

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"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on file
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 ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
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 Name3/11/24
Date/Time



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

Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

BH01
2403166-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/24 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BHC0358	03/13/24	03/13/24	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: **03/11/24 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.7	103 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.6	102 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.4	93.1 %		21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **03/11/24 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.500		ug/l	1	BHC0362	03/13/24	03/15/24	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500		"	"	"	"	"	"	

Date Sampled: **03/11/24 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	1.38	68.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.44	72.2 %		40-150		"	"	"	"	

Anions by EPA Method 300.0

Summit Scientific

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

BH01
2403166-01 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **03/11/24 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	249	12.0		mg/L	200	BHC0586	03/16/24	03/16/24	EPA 300.0	
Sulfate	1030	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/11/24 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2210	10.0		mg/L	1	BHC0375	03/13/24	03/14/24	SM2540C	

Summit Scientific

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

BH02
2403166-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/24 11:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BHC0358	03/13/24	03/13/24	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: **03/11/24 11:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.4	101 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.6	94.1 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **03/11/24 11:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BHC0362	03/13/24	03/15/24	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **03/11/24 11:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.41	70.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.52	76.2 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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Reported:
03/21/24 11:39

BH02
2403166-02 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **03/11/24 11:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	215	12.0		mg/L	200	BHC0586	03/16/24	03/16/24	EPA 300.0	
Sulfate	763	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/11/24 11:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1870	10.0		mg/L	1	BHC0375	03/13/24	03/14/24	SM2540C	

Summit Scientific

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

BH03
2403166-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/24 11:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BHC0358	03/13/24	03/13/24	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: **03/11/24 11:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	14.0	105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.4	100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.0	97.4 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **03/11/24 11:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BHC0362	03/13/24	03/15/24	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **03/11/24 11:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.35	67.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.18	58.8 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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Reported:
03/21/24 11:39

BH03
2403166-03 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **03/11/24 11:31**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	328	12.0		mg/L	200	BHC0586	03/16/24	03/16/24	EPA 300.0	
Sulfate	1010	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/11/24 11:31**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2280	10.0		mg/L	1	BHC0375	03/13/24	03/14/24	SM2540C	

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Project: Noble - Thompson D20-31D
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Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

BH04
2403166-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BHC0358	03/13/24	03/14/24	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: **03/11/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.3	99.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	99.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.1	98.5 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **03/11/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BHC0362	03/13/24	03/15/24	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **03/11/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.62	80.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.73	86.6 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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Project: Noble - Thompson D20-31D
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Reported:
03/21/24 11:39

BH04
2403166-04 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **03/11/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	321	12.0		mg/L	200	BHC0586	03/16/24	03/16/24	EPA 300.0	
Sulfate	1080	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/11/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2490	10.0		mg/L	1	BHC0375	03/13/24	03/14/24	SM2540C	

Summit Scientific

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

BH05
2403166-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/24 10:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BHC0358	03/13/24	03/14/24	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: **03/11/24 10:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.4	101 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.0	97.8 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **03/11/24 10:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BHC0362	03/13/24	03/15/24	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **03/11/24 10:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.19	59.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.20	59.8 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

Summit Scientific

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

BH05
2403166-05 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **03/11/24 10:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	276	12.0		mg/L	200	BHC0586	03/16/24	03/16/24	EPA 300.0	
Sulfate	897	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/11/24 10:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2200	10.0		mg/L	1	BHC0375	03/13/24	03/14/24	SM2540C	

Summit Scientific

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

BH06
2403166-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/24 11:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BHC0358	03/13/24	03/14/24	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: **03/11/24 11:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.6	102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	99.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.8	95.6 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **03/11/24 11:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BHC0362	03/13/24	03/15/24	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **03/11/24 11:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.61	80.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.67	83.5 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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Reported:
03/21/24 11:39

BH06
2403166-06 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **03/11/24 11:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	336	12.0		mg/L	200	BHC0586	03/16/24	03/16/24	EPA 300.0	
Sulfate	1130	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/11/24 11:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2420	10.0		mg/L	1	BHC0375	03/13/24	03/14/24	SM2540C	

Summit Scientific

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

BH07
2403166-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/24 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BHC0358	03/13/24	03/14/24	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: **03/11/24 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	14.0	105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.8	104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.3	100 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **03/11/24 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BHC0362	03/13/24	03/15/24	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **03/11/24 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.78	88.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.80	90.1 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

Summit Scientific

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6855 W. 119th Ave.
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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

BH07
2403166-07 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **03/11/24 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	288	12.0		mg/L	200	BHC0586	03/16/24	03/16/24	EPA 300.0	
Sulfate	930	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/11/24 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2260	10.0		mg/L	1	BHC0375	03/13/24	03/14/24	SM2540C	

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

BH08
2403166-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/24 12:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BHC0358	03/13/24	03/14/24	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: **03/11/24 12:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.6	102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.0	97.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.0	97.1 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **03/11/24 12:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BHC0362	03/13/24	03/15/24	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **03/11/24 12:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.58	79.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.57	78.4 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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Reported:
03/21/24 11:39

BH08
2403166-08 (Water)

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Anions by EPA Method 300.0

Date Sampled: **03/11/24 12:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	277	12.0		mg/L	200	BHC0586	03/16/24	03/16/24	EPA 300.0	
Sulfate	857	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/11/24 12:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2100	10.0		mg/L	1	BHC0375	03/13/24	03/14/24	SM2540C	

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

BH09
2403166-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/24 12:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BHC0358	03/13/24	03/14/24	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: **03/11/24 12:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.9	104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.5	102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.0	97.7 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **03/11/24 12:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BHC0362	03/13/24	03/15/24	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **03/11/24 12:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.77	88.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.71	85.3 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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Reported:
03/21/24 11:39

BH09
2403166-09 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **03/11/24 12:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	379	12.0		mg/L	200	BHC0586	03/16/24	03/16/24	EPA 300.0	
Sulfate	1270	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/11/24 12:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2780	10.0		mg/L	1	BHC0375	03/13/24	03/14/24	SM2540C	

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

BH10
2403166-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/24 12:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BHC0358	03/13/24	03/14/24	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: **03/11/24 12:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.4	101 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.6	102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.7	95.6 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **03/11/24 12:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BHC0362	03/13/24	03/15/24	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **03/11/24 12:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.33	66.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.34	67.1 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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Reported:
03/21/24 11:39

BH10
2403166-10 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **03/11/24 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	422	12.0		mg/L	200	BHC0586	03/16/24	03/16/24	EPA 300.0	
Sulfate	1360	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/11/24 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2900	10.0		mg/L	1	BHC0375	03/13/24	03/14/24	SM2540C	

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Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

BH11
2403166-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/24 12:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BHC0358	03/13/24	03/14/24	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: **03/11/24 12:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.8	103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.4	101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.9	96.6 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **03/11/24 12:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BHC0362	03/13/24	03/15/24	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **03/11/24 12:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.77	88.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.92	95.8 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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Reported:
03/21/24 11:39

BH11
2403166-11 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **03/11/24 12:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	392	12.0		mg/L	200	BHC0586	03/16/24	03/16/24	EPA 300.0	
Sulfate	1330	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/11/24 12:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2880	10.0		mg/L	1	BHC0375	03/13/24	03/14/24	SM2540C	

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

BH12
2403166-12 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/24 13:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BHC0358	03/13/24	03/14/24	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: **03/11/24 13:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.7	103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.6	102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.9	96.5 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **03/11/24 13:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BHC0362	03/13/24	03/15/24	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **03/11/24 13:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.60	80.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.83	91.3 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

BH12
2403166-12 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **03/11/24 13:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	398	12.0		mg/L	200	BHC0586	03/16/24	03/16/24	EPA 300.0	
Sulfate	1300	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/11/24 13:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2800	10.0		mg/L	1	BHC0375	03/13/24	03/14/24	SM2540C	

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Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

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 BHC0358 - EPA 5030 Water MS

Blank (BHC0358-BLK1)

Prepared & Analyzed: 03/13/24

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	12.9		"	13.3		96.5	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.2	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.3	21-167			

LCS (BHC0358-BS1)

Prepared & Analyzed: 03/13/24

Benzene	33.4	1.0	ug/l	33.3		100	51-132			
Toluene	29.8	1.0	"	33.3		89.4	51-138			
Ethylbenzene	30.6	1.0	"	33.3		91.8	58-146			
m,p-Xylene	55.9	2.0	"	66.7		83.8	57-144			
o-Xylene	25.9	1.0	"	33.3		77.6	53-146			
Naphthalene	26.8	1.0	"	33.3		80.4	70-130			
1,2,4-Trimethylbenzene	25.8	1.0	"	33.3		77.4	70-130			
1,3,5-Trimethylbenzene	26.4	1.0	"	33.3		79.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		101	23-173			
Surrogate: Toluene-d8	13.3		"	13.3		99.8	20-170			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.4	21-167			

Matrix Spike (BHC0358-MS1)

Source: 2403166-01

Prepared & Analyzed: 03/13/24

Benzene	36.2	1.0	ug/l	33.3	ND	109	34-141			
Toluene	32.5	1.0	"	33.3	ND	97.5	27-151			
Ethylbenzene	32.8	1.0	"	33.3	ND	98.4	29-160			
m,p-Xylene	60.2	2.0	"	66.7	ND	90.3	20-166			
o-Xylene	28.0	1.0	"	33.3	ND	84.1	33-159			
Naphthalene	31.4	1.0	"	33.3	ND	94.2	70-130			
1,2,4-Trimethylbenzene	27.5	1.0	"	33.3	ND	82.6	70-130			
1,3,5-Trimethylbenzene	28.0	1.0	"	33.3	ND	84.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3		105	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.6	21-167			

Summit Scientific

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

Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

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 BHC0358 - EPA 5030 Water MS

Matrix Spike Dup (BHC0358-MSD1)	Source: 2403166-01			Prepared & Analyzed: 03/13/24						
Benzene	36.7	1.0	ug/l	33.3	ND	110	34-141	1.51	30	
Toluene	33.0	1.0	"	33.3	ND	99.1	27-151	1.68	30	
Ethylbenzene	33.6	1.0	"	33.3	ND	101	29-160	2.29	30	
m,p-Xylene	61.8	2.0	"	66.7	ND	92.7	20-166	2.64	30	
o-Xylene	28.6	1.0	"	33.3	ND	85.9	33-159	2.12	30	
Naphthalene	32.9	1.0	"	33.3	ND	98.6	70-130	4.51	30	
1,2,4-Trimethylbenzene	28.4	1.0	"	33.3	ND	85.1	70-130	2.93	30	
1,3,5-Trimethylbenzene	28.7	1.0	"	33.3	ND	86.1	70-130	2.43	30	
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3		105	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.0	21-167			

Summit Scientific

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Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0362 - EPA 5030 Water MS

Blank (BHC0362-BLK1)

Prepared: 03/13/24 Analyzed: 03/15/24

1-Methylnaphthalene	ND	0.500	ug/l							
2-Methylnaphthalene	ND	0.500	"							
Surrogate: 2-Methylnaphthalene-d10	1.92		"	2.00		95.8	40-150			
Surrogate: Fluoranthene-d10	1.91		"	2.00		95.5	40-150			

LCS (BHC0362-BS1)

Prepared: 03/13/24 Analyzed: 03/15/24

1-Methylnaphthalene	1.72	0.500	ug/l	2.00		85.8	30-120			
2-Methylnaphthalene	1.87	0.500	"	2.00		93.7	0-200			
Surrogate: 2-Methylnaphthalene-d10	1.97		"	2.00		98.7	40-150			
Surrogate: Fluoranthene-d10	1.94		"	2.00		96.8	40-150			

LCS Dup (BHC0362-BSD1)

Prepared: 03/13/24 Analyzed: 03/15/24

1-Methylnaphthalene	1.42	0.500	ug/l	2.00		71.2	30-120	18.6	30	
2-Methylnaphthalene	1.53	0.500	"	2.00		76.6	0-200	20.0	200	
Surrogate: 2-Methylnaphthalene-d10	1.72		"	2.00		86.0	40-150			
Surrogate: Fluoranthene-d10	1.78		"	2.00		88.8	40-150			

Summit Scientific

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Reported:
03/21/24 11:39

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 BHC0586 - General Preparation

Blank (BHC0586-BLK1)

Prepared & Analyzed: 03/16/24

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

LCS (BHC0586-BS1)

Prepared & Analyzed: 03/16/24

Chloride	3.07	0.0600	mg/L	3.00	102	90-110
Sulfate	15.3	0.300	"	15.0	102	90-110

Duplicate (BHC0586-DUP1)

Source: 2403166-01

Prepared & Analyzed: 03/16/24

Chloride	242	12.0	mg/L	249	2.94	20
Sulfate	926	60.0	"	1030	10.5	20

Matrix Spike (BHC0586-MS1)

Source: 2403166-01

Prepared & Analyzed: 03/16/24

Chloride	852	12.0	mg/L	600	249	101	80-120
Sulfate	3970	60.0	"	3000	1030	98.0	80-120

Matrix Spike (BHC0586-MS2)

Source: 2403166-11

Prepared & Analyzed: 03/16/24

Chloride	1000	12.0	mg/L	600	392	102	80-120
Sulfate	4430	60.0	"	3000	1330	103	80-120

Summit Scientific

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Project: Noble - Thompson D20-31D
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Reported:
03/21/24 11:39

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BHC0375 - General Preparation

Blank (BHC0375-BLK1)

Prepared: 03/13/24 Analyzed: 03/14/24

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BHC0375-DUP1)

Source: 2403166-01

Prepared: 03/13/24 Analyzed: 03/14/24

Total Dissolved Solids 2290 10.0 mg/L 2210 3.46 20

Summit Scientific

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Project: Noble - Thompson D20-31D

Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
03/21/24 11:39

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