



# BEEBE DRAW RG 26-9, 23

## Fourth Quarter 2022 Site Monitoring and Remediation Data

### INTRODUCTION

This Fourth Quarter 2022 Site Monitoring and Remediation Data presents the results of groundwater sampling activities and operational data of the Air Sparge (AS) remediation system (System) at the Beebe Draw RG 26-9, 23 site (Site).

Fourth Quarter 2022 field activities were performed by Tasman, Inc on behalf of Noble Energy, Inc to further evaluate groundwater conditions and conduct remediation activities at the Site. The data collected was used to develop the groundwater summary tables and figures and to optimize remediation system operations.

### PROJECT INFORMATION

Spill Tracking # 455231  
Remediation # 11925

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### GROUNDWATER SAMPLING SUMMARY

#### Groundwater Level Measurements and Sampling

Fourth Quarter 2022 groundwater monitoring activities, including the measurement of groundwater elevations from 26 of the 27 Site monitoring wells, and the collection of groundwater samples from 26 of the 27 Site monitoring wells were performed at the Site on October 13, 2022. Monitoring well BH14 could not be sampled due to being dry on arrival.

#### Groundwater Analytical Results

Analytical results from the Fourth Quarter 2022 Site monitoring event indicate monitoring wells BH18, BH19, BH22, BH23, BH24, and BH25 are in exceedance of COGCC Table 915-1 standards. These exceedances are for a combination of benzene, 1,2,4 Trimethylbenzene, and 1,3,5 Trimethylbenzene.

Monitoring well BH17 was used to calculate the background concentration standard for inorganic analytes. The assessment of groundwater inorganic analyte concentrations at site monitoring wells, including the selected background location, is on-going.

### REMEDIATION SUMMARY (JULY 15, 2022 – OCTOBER 5, 2022)

#### Air Sparge Operational Data

The AS component of the System operated at an average pressure of 10.6 pounds per square inch (PSI) and average flow rate of 2.7 cubic feet per minute (CFM) with an average runtime of 23.68 hours per day.

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**TABLE 1**  
**GROUNDWATER ELEVATION DATA**  
**NOBLE ENERGY, INC. - BEEBE DRAW RG 26-9, 23**

Monitoring Well ID	Date	Top of Casing Elevation (ft. AMSL)	Total Depth (ft. BTOC)	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation* (ft. AMSL)
BH01	01/07/20	4774.24	26.78	7.21	ND	ND	4764.16
BH01	04/20/20	4774.24	26.45	7.42	ND	ND	4763.95
BH01	07/08/20	4774.24	26.41	7.95	ND	ND	4763.42
BH01	10/07/20	4774.24	26.30	8.84	ND	ND	4762.53
BH01	01/18/21	4774.24	26.19	9.77	ND	ND	4761.60
BH01	04/29/21	4774.24	26.10	10.46	ND	ND	4760.91
BH01	07/26/21	4774.24	26.10	10.37	ND	ND	4761.00
BH01	10/20/21	4774.24	26.13	10.64	ND	ND	4760.73
BH01	01/12/22	4774.24	26.11	10.97	ND	ND	4760.40
BH01	04/12/22	4774.24	26.07	11.35	ND	ND	4760.02
BH01	07/14/22	4774.24	25.06	11.55	ND	ND	4759.82
BH01	10/13/22	4774.24	24.89	16.62	ND	ND	4757.62
BH02 <sup>(4)</sup>	01/07/20	NM	24.06	NM	ND	ND	NM
BH02	04/20/20	4773.25	24.53	7.12	ND	ND	4762.65
BH02	07/08/20	4773.25	24.92	7.41	ND	ND	4762.36
BH02	10/07/20	4773.25	24.96	8.37	ND	ND	4761.40
BH02	01/18/21	4773.25	25.02	9.32	ND	ND	4760.45
BH02	04/29/21	4773.25	25.11	10.02	ND	ND	4759.75
BH02	07/26/21	4773.25	25.12	9.62	ND	ND	4760.15
BH02	10/20/21	4773.25	25.11	10.01	ND	ND	4759.76
BH02	01/12/22	4773.25	25.18	10.35	ND	ND	4759.42
BH02	04/12/22	4773.25	25.15	10.38	ND	ND	4759.39
BH02	07/14/22	4773.25	25.23	10.94	ND	ND	4758.83
BH02	10/13/22	4773.25	25.14	15.98	ND	ND	4757.27
BH03 <sup>(4)</sup>	01/07/20	NM	28.47	NM	ND	ND	NM
BH03	04/20/20	4771.19	28.48	6.26	ND	ND	4761.62
BH03	07/08/20	4771.19	28.49	6.65	ND	ND	4761.23
BH03	10/07/20	4771.19	28.47	7.70	ND	ND	4760.18
BH03	01/18/21	4771.19	28.47	8.62	ND	ND	4759.26
BH03	04/29/21	4771.19	28.46	9.18	ND	ND	4758.70
BH03	07/26/21	4771.19	28.49	8.65	ND	ND	4759.23
BH03	10/20/21	4771.19	32.09	9.14	ND	ND	4758.74
BH03	01/12/22	4771.19	28.47	9.43	ND	ND	4758.45
BH03	04/12/22	4771.19	28.44	9.50	ND	ND	4758.38
BH03	07/14/22	4771.19	31.68	9.62	ND	ND	4758.26
BH03	10/13/22	4771.19	31.44	14.02	ND	ND	4757.17
BH04	01/07/20	4773.76	28.58	10.41	ND	ND	4761.46
BH04	04/20/20	4773.76	28.47	10.40	ND	ND	4761.47
BH04	07/08/20	4773.76	28.46	10.45	ND	ND	4761.42
BH04	10/07/20	4773.76	28.46	11.32	ND	ND	4760.55
BH04	01/18/21	4773.76	28.25	12.10	ND	ND	4759.77
BH04	04/29/21	4773.76	28.07	12.51	ND	ND	4759.36
BH04	07/26/21	4773.76	27.94	12.51	ND	ND	4759.36
BH04	10/20/21	4773.76	27.84	13.04	ND	ND	4758.83
BH04	01/12/22	4773.76	27.71	13.36	ND	ND	4758.51
BH04	04/12/22	4773.76	27.45	13.48	ND	ND	4758.39
BH04	07/14/22	4773.76	27.02	14.15	ND	ND	4757.72
BH04	10/13/22	4773.76	25.30	17.85	ND	ND	4755.91
BH05 <sup>(4)</sup>	01/07/20	NM	26.38	NM	ND	ND	NM
BH05	04/20/20	4770.07	26.10	5.24	ND	ND	4761.64
BH05	07/08/20	4770.07	26.06	6.05	ND	ND	4760.83
BH05	10/07/20	4770.07	25.89	7.16	ND	ND	4759.72
BH05	01/18/21	4770.07	25.84	8.10	ND	ND	4758.78
BH05	04/29/21	4770.07	25.79	8.47	ND	ND	4758.41
BH05	07/26/21	4770.07	25.75	7.92	ND	ND	4758.96
BH05	10/20/21	4770.07	25.72	8.57	ND	ND	4758.31
BH05	01/12/22	4770.07	25.64	8.82	ND	ND	4758.06
BH05	04/12/22	4770.07	25.52	8.88	ND	ND	4758.00
BH05	07/14/22	4770.07	25.41	8.71	ND	ND	4758.17
BH05	10/13/22	4770.07	25.92	12.91	ND	ND	4757.16

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**GROUNDWATER ELEVATION DATA**  
**NOBLE ENERGY, INC. - BEEBE DRAW RG 26-9, 23**

Monitoring Well ID	Date	Top of Casing Elevation (ft. AMSL)	Total Depth (ft. BTOC)	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation* (ft. AMSL)
BH06R	01/07/20	4772.60	27.47	9.33	ND	ND	4760.12
BH06R	04/20/20	4772.60	27.15	8.93	ND	ND	4760.52
BH06R	07/08/20	4772.60	22.88	9.30	ND	ND	4760.15
BH06R	10/07/20	4772.60	26.94	10.52	ND	ND	4758.93
BH06R	01/18/21	4772.60	22.88	11.28	ND	ND	4758.17
BH06R	04/29/21	4772.60	26.80	11.44	ND	ND	4758.01
BH06R	07/26/21	4772.60	26.45	12.35	ND	ND	4757.10
BH06R	10/20/21	4772.60	26.39	11.91	ND	ND	4757.54
BH06R	01/12/22	4772.60	26.00	12.09	ND	ND	4757.36
BH06R	04/12/22	4772.60	25.80	12.18	ND	ND	4757.27
BH06R	07/14/22	4772.60	25.08	12.28	ND	ND	4757.17
BH06R	10/13/22	4772.60	22.40	16.85	ND	ND	4755.75
BH07	01/07/20	4768.79	27.35	5.74	ND	ND	4759.99
BH07	04/20/20	4768.79	27.39	5.19	ND	ND	4760.54
BH07	07/08/20	4768.79	27.82	6.23	ND	ND	4759.50
BH07	10/07/20	4768.79	27.59	7.79	ND	ND	4757.94
BH07	01/18/21	4768.79	27.56	8.35	ND	ND	4757.38
BH07	04/29/21	4768.79	27.53	8.39	ND	ND	4757.34
BH07	07/26/21	4768.79	27.41	8.18	ND	ND	4757.55
BH07	10/20/21	4768.79	26.95	8.70	ND	ND	4757.03
BH07	01/12/22	4768.79	27.43	8.81	ND	ND	4756.92
BH07	04/12/22	4768.79	27.27	9.20	ND	ND	4756.53
BH07	07/14/22	4768.79	27.45	8.85	ND	ND	4756.88
BH07	10/13/22	4768.79	26.31	13.69	ND	ND	4755.10
BH08	01/07/20	4769.60	19.37	4.48	ND	ND	4762.03
BH08	04/20/20	4769.60	19.32	4.05	ND	ND	4762.46
BH08	07/08/20	4769.60	19.24	5.54	ND	ND	4760.97
BH08	10/07/20	4769.60	19.17	6.40	ND	ND	4760.11
BH08	01/18/21	4769.60	19.18	7.26	ND	ND	4759.25
BH08	04/29/21	4769.60	19.04	7.41	ND	ND	4759.10
BH08	07/26/21	4769.60	18.76	7.53	ND	ND	4758.98
BH08	10/20/21	4769.60	18.48	7.18	ND	ND	4759.33
BH08	01/12/22	4769.60	18.55	7.57	ND	ND	4758.94
BH08	04/12/22	4769.60	18.21	8.03	ND	ND	4758.48
BH08	07/14/22	4769.60	18.04	7.77	ND	ND	4758.74
BH08	10/13/22	4769.60	17.81	14.12	ND	ND	4755.48
BH09	01/07/20	4771.81	21.88	4.84	ND	ND	4763.90
BH09	04/20/20	4771.81	21.74	4.94	ND	ND	4763.80
BH09	07/08/20	4771.81	21.75	6.05	ND	ND	4762.69
BH09	10/07/20	4771.81	21.48	6.86	ND	ND	4761.88
BH09	01/18/21	4771.81	21.38	7.93	ND	ND	4760.81
BH09	04/29/21	4771.81	21.28	8.35	ND	ND	4760.39
BH09	07/26/21	4771.81	21.23	8.42	ND	ND	4760.32
BH09	10/20/21	4771.81	21.09	8.07	ND	ND	4760.67
BH09	01/12/22	4771.81	21.08	8.58	ND	ND	4760.16
BH09	04/12/22	4771.81	20.96	9.10	ND	ND	4759.64
BH09	07/14/22	4771.81	20.95	8.60	ND	ND	4760.14
BH09	10/13/22	4771.81	20.78	14.42	ND	ND	4757.39
BH10	01/07/20	4775.10	26.09	7.34	ND	ND	4764.78
BH10	04/20/20	4775.10	25.96	7.52	ND	ND	4764.60
BH10	07/08/20	4775.10	25.93	8.14	ND	ND	4763.98
BH10	10/07/20	4775.10	25.71	9.08	ND	ND	4763.04
BH10	01/18/21	4775.10	25.61	10.03	ND	ND	4762.09
BH10	04/29/21	4775.10	25.53	10.82	ND	ND	4761.30
BH10	07/26/21	4775.10	25.52	10.67	ND	ND	4761.45
BH10	10/20/21	4775.10	25.45	10.98	ND	ND	4761.14
BH10	01/12/22	4775.10	25.42	11.34	ND	ND	4760.78
BH10	04/12/22	4775.10	25.32	11.67	ND	ND	4760.45
BH10	07/14/22	4775.10	25.32	11.70	ND	ND	4760.42
BH10	10/13/22	4775.10	24.80	16.85	ND	ND	4758.25

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Monitoring Well ID	Date	Top of Casing Elevation (ft. AMSL)	Total Depth (ft. BTOC)	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation* (ft. AMSL)
BH11	01/07/20			Unable to Locate			
BH11	04/20/20	4775.88	24.40	9.68	ND	ND	4763.42
BH11	07/08/20	4775.88	24.36	9.96	ND	ND	4763.14
BH11	10/07/20	4775.88	24.25	10.92	ND	ND	4762.18
BH11	01/18/21	4775.88	24.21	11.81	ND	ND	4761.29
BH11	04/29/21	4775.88	24.19	12.42	ND	ND	4760.68
BH11	07/26/21	4775.88	24.24	12.42	ND	ND	4760.68
BH11	10/20/21	4775.88	24.11	12.84	ND	ND	4760.26
BH11	01/12/22	4775.88	23.96	13.17	ND	ND	4759.93
BH11	04/12/22	4775.88	24.02	13.38	ND	ND	4759.72
BH11	07/14/22	4775.88	23.63	13.88	ND	ND	4759.22
BH11	10/13/22	4775.88	23.52	18.53	ND	ND	4757.35
BH12	01/07/20	4775.39	25.81	8.31	ND	ND	4764.56
BH12	04/20/20	4775.39	25.66	8.57	ND	ND	4764.30
BH12	07/08/20	4775.39	25.65	8.92	ND	ND	4763.95
BH12	10/07/20	4775.39	25.33	9.90	ND	ND	4762.97
BH12	01/18/21	4775.39	25.13	10.88	ND	ND	4761.99
BH12	04/29/21	4775.39	25.09	11.60	ND	ND	4761.27
BH12	07/26/21	4775.39	24.91	11.58	ND	ND	4761.29
BH12	10/20/21	4775.39	25.85	11.91	ND	ND	4760.96
BH12	01/12/22	4775.39	24.77	12.27	ND	ND	4760.60
BH12	04/12/22	4775.39	24.68	12.55	ND	ND	4760.32
BH12	07/14/22	4775.39	24.52	12.70	ND	ND	4760.17
BH12	10/13/22	4775.39	24.42	17.22	ND	ND	4758.17
BH13	01/07/20	4775.22	23.51	10.07	ND	ND	4762.07
BH13	04/20/20	4775.22	23.44	9.99	ND	ND	4762.15
BH13	07/08/20	4775.22	23.31	10.17	ND	ND	4761.97
BH13	10/07/20	4775.22	23.21	10.98	ND	ND	4761.16
BH13	01/18/21	4775.22	22.95	11.77	ND	ND	4760.37
BH13	04/29/21	4775.22	22.71	12.33	ND	ND	4759.81
BH13	07/26/21	4775.22	22.72	12.31	ND	ND	4759.83
BH13	10/20/21	4775.22	22.70	12.82	ND	ND	4759.32
BH13	01/12/22	4775.22	22.41	13.13	ND	ND	4759.01
BH13	04/12/22	4775.22	22.34	13.25	ND	ND	4758.89
BH13	07/14/22	4775.22	22.10	13.57	ND	ND	4758.57
BH13	10/13/22	4775.22	21.94	18.18	ND	ND	4757.04
BH14 <sup>(3,4)</sup>	01/07/20	NM	20.84	NM	ND	ND	NM
BH14	04/20/20	4774.92	20.80	10.79	ND	ND	4761.00
BH14	07/08/20	4774.92	NM	11.01	14.10	0.04	4760.81
BH14	10/07/20	4774.92	20.35	11.99	ND	ND	4759.80
BH14	01/18/21	4774.92	20.15	13.15	ND	ND	4758.64
BH14	04/29/21		Obstruction in Well - Unable to Gauge				
BH14	07/26/21		Obstruction in Well - Unable to Gauge				
BH14	10/22/21	4774.92	24.26	16.93	ND	ND	4754.86
BH14	01/12/22	4774.92	19.38	13.89	ND	ND	4757.90
BH14	04/12/22	4774.92	19.39	13.91	ND	ND	4757.88
BH14	07/14/22		Obstruction in Well - Unable to Gauge				
BH14	07/14/22		Monitoring Well Dry				
BH15	01/07/20	4773.89	23.98	6.70	ND	ND	4765.10
BH15	04/20/20	4773.89	23.83	7.00	ND	ND	4764.80
BH15	07/08/20	4773.89	23.80	7.76	ND	ND	4764.04
BH15	10/07/20	4773.89	19.91	8.61	ND	ND	4763.19
BH15	01/18/21	4773.89	23.62	9.61	ND	ND	4762.19
BH15	04/29/21	4773.89	19.91	10.42	ND	ND	4761.38
BH15	07/26/21	4773.89	23.44	10.22	ND	ND	4761.58
BH15	10/20/21	4773.89	23.33	10.27	ND	ND	4761.53
BH15	01/12/22	4773.89	23.27	10.72	ND	ND	4761.08
BH15	04/12/22	4773.89	19.92	11.16	ND	ND	4760.64
BH15	07/14/22	4773.89	23.14	10.84	ND	ND	4760.96
BH15	10/13/22	4773.89	22.70	15.46	ND	ND	4758.43

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Monitoring Well ID	Date	Top of Casing Elevation (ft. AMSL)	Total Depth (ft. BTOC)	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation* (ft. AMSL)
BH16	01/07/20	4776.93	26.14	8.30	ND	ND	4765.50
BH16	04/20/20	4776.93	26.08	8.61	ND	ND	4765.19
BH16	07/08/20	4776.93	26.14	8.95	ND	ND	4764.85
BH16	10/07/20	4776.93	25.85	9.85	ND	ND	4763.95
BH16	01/18/21	4776.93	25.80	10.91	ND	ND	4762.89
BH16	04/29/21	4776.93	25.71	11.85	ND	ND	4761.95
BH16	07/26/21	4776.93	25.65	11.80	ND	ND	4762.00
BH16	10/20/21	4776.93	25.71	12.13	ND	ND	4761.67
BH16	01/12/22	4776.93	25.56	12.50	ND	ND	4761.30
BH16	04/12/22	4776.93	25.51	12.85	ND	ND	4760.95
BH16	07/14/22	4776.93	25.55	12.73	ND	ND	4761.07
BH16	10/13/22	4776.93	26.33	17.97	ND	ND	4758.96
BH17	01/07/20	4778.81	27.71	9.37	ND	ND	4766.21
BH17	04/20/20	4778.81	27.58	9.79	ND	ND	4765.79
BH17	07/08/20	4778.81	27.63	9.95	ND	ND	4765.63
BH17	10/07/20	4778.81	27.33	10.86	ND	ND	4764.72
BH17	01/18/21	4778.81	27.22	11.99	ND	ND	4763.59
BH17	04/29/21	4778.81	27.15	13.10	ND	ND	4762.48
BH17	07/26/21	4778.81	27.18	12.82	ND	ND	4762.76
BH17	10/20/21	4778.81	27.22	13.28	ND	ND	4762.30
BH17	01/12/22	4778.81	27.03	13.67	ND	ND	4761.91
BH17	04/12/22	4778.81	27.11	13.99	ND	ND	4761.59
BH17	07/14/22	4778.81	27.12	13.71	ND	ND	4761.87
BH17	10/13/22	4778.81	27.02	19.07	ND	ND	4759.74
BH18	01/07/20	4777.44	28.50	11.20	ND	ND	4764.10
BH18	04/20/20	4777.44	28.35	11.35	ND	ND	4763.95
BH18	07/08/20	4777.44	28.39	11.57	ND	ND	4763.73
BH18	10/07/20	4777.44	28.03	12.50	ND	ND	4762.80
BH18	01/18/21	4777.44	27.96	13.45	ND	ND	4761.85
BH18	04/29/21	4777.44	27.88	14.10	ND	ND	4761.20
BH18	07/26/21	4777.44	27.85	14.22	ND	ND	4761.08
BH18	10/20/21	4777.44	27.81	14.76	ND	ND	4760.54
BH18	01/12/22	4777.44	27.67	15.10	ND	ND	4760.20
BH18	04/12/22	4777.44	27.67	15.31	ND	ND	4759.99
BH18	07/14/22	4777.44	27.47	15.64	ND	ND	4759.66
BH18	10/13/22	4777.44	27.33	19.58	ND	ND	4757.86
BH19	01/07/20	4775.05	27.72	11.67	ND	ND	4759.98
BH19	04/20/20	4775.05	27.75	11.34	ND	ND	4760.31
BH19	07/08/20	4775.05	27.42	11.50	ND	ND	4760.15
BH19	10/07/20	4775.05	27.39	12.39	ND	ND	4759.26
BH19	01/18/21	4775.05	27.33	13.04	ND	ND	4758.61
BH19	04/29/21	4775.05	27.35	13.25	ND	ND	4758.40
BH19	07/26/21	4775.05	27.32	13.37	ND	ND	4758.28
BH19	10/20/21	4775.05	27.31	13.86	ND	ND	4757.79
BH19	01/12/22	4775.05	27.32	14.15	ND	ND	4757.50
BH19	04/12/22	4775.05	27.26	14.25	ND	ND	4757.40
BH19	07/14/22	4775.05	27.30	14.41	ND	ND	4757.24
BH19	10/13/22	4775.05	28.23	19.08	ND	ND	4755.97
BH20	01/07/20	4776.72	27.34	11.33	ND	ND	4761.64
BH20	04/20/20	4776.72	26.90	11.11	ND	ND	4761.86
BH20	07/08/20	4776.72	26.73	11.36	ND	ND	4761.61
BH20	10/07/20	4776.72	26.55	12.12	ND	ND	4760.85
BH20	01/18/21	4776.72	26.44	12.82	12.81	ND	4760.16
BH20	04/29/21	4776.72	26.12	13.13	ND	ND	4759.84
BH20	07/26/21	4776.72	26.06	13.36	ND	ND	4759.61
BH20	10/20/21	4776.72	25.79	13.87	ND	ND	4759.10
BH20	01/12/22	4776.72	25.77	14.23	ND	ND	4758.74
BH20	04/12/22	4776.72	25.73	14.35	ND	ND	4758.62
BH20	07/14/22	4776.72	25.59	14.58	ND	ND	4758.39
BH20	10/13/22	4776.72	25.38	19.88	ND	ND	4756.84

**TABLE 1**  
**GROUNDWATER ELEVATION DATA**  
**NOBLE ENERGY, INC. - BEEBE DRAW RG 26-9, 23**

Monitoring Well ID	Date	Top of Casing Elevation (ft. AMSL)	Total Depth (ft. BTOC)	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation* (ft. AMSL)
BH21	01/07/20	4778.10	26.92	11.65	ND	ND	4763.36
BH21	04/20/20	4778.10	26.65	11.51	ND	ND	4763.50
BH21	07/08/20	4778.10	26.58	11.71	ND	ND	4763.30
BH21	10/07/20	4778.10	26.30	12.51	ND	ND	4762.50
BH21	01/18/21	4778.10	25.99	13.30	ND	ND	4761.71
BH21	04/29/21	4778.10	25.81	13.87	ND	ND	4761.14
BH21	07/26/21	4778.10	25.75	14.11	ND	ND	4760.90
BH21	10/20/21	4778.10	25.60	14.78	ND	ND	4760.23
BH21	01/12/22	4778.10	25.53	15.22	ND	ND	4759.79
BH21	04/12/22	4778.10	25.45	15.34	ND	ND	4759.67
BH21	07/14/22	4778.10	25.34	15.67	ND	ND	4759.34
BH21	10/13/22	4778.10	25.12	20.23	ND	ND	4757.87
BH22	05/26/20	4774.70	28.14	11.84	11.73	ND	4759.64
BH22	07/08/20	4774.70	NM	11.92	11.90	0.02	4759.50
BH22	10/07/20	4774.70	27.60	12.83	12.81	0.02	4758.59
BH22	01/18/21	4774.70	27.42	13.47	13.46	0.01	4757.94
BH22	04/29/21	4774.70	27.19	13.60	ND	ND	4757.80
BH22	07/26/21	4774.70	27.15	13.70	ND	ND	4757.70
BH22	10/20/21	4774.70	27.05	14.26	ND	ND	4757.14
BH22	01/12/22	4774.70	NM	14.54	14.52	0.02	4756.88
BH22	04/12/22	4774.70	NM	14.66	14.62	0.04	4756.77
BH22	04/13/22	4774.70	27.12	14.75	ND	ND	4756.65
BH22	07/14/22	4774.70	NM	14.77	14.76	0.01	4756.64
BH22	10/13/22	4774.70	27.16	20.21	20.20	0.01	4754.50
BH23	05/26/20	4769.07	25.10	10.38	ND	ND	4758.93
BH23	07/08/20	4769.07	24.70	9.90	ND	ND	4759.41
BH23	10/07/20	4769.07	24.70	10.68	ND	ND	4758.63
BH23	01/18/21	4769.07	24.59	11.30	ND	ND	4758.01
BH23	04/29/21	4769.07	19.7	11.62	ND	ND	4757.69
BH23	07/26/21	4769.07	24.41	11.65	ND	ND	4757.66
BH23	10/20/21	4769.07	24.45	12.22	ND	ND	4757.09
BH23	01/12/22	4769.07	24.35	12.41	ND	ND	4756.90
BH23	04/12/22	4769.07	24.31	12.51	ND	ND	4756.80
BH23	07/14/22	4769.07	24.38	12.81	ND	ND	4756.50
BH23	10/13/22	4769.07	24.30	14.13	ND	ND	4754.94
BH24	05/27/20	4768.59	24.78	10.25	ND	ND	4758.53
BH24	07/08/20	4768.59	NM	10.44	10.18	0.07	4758.39
BH24	10/07/20	4768.59	24.38	11.39	10.89	0.31	4757.62
BH24	01/18/21	4768.59	23.81	11.86	11.08	0.78	4757.51
BH24	04/29/21	4768.59	23.8	12.05	12.04	0.01	4756.74
BH24	07/26/21	4768.59	NM	12.00	11.99	0.01	4756.79
BH24	10/20/21	4768.59	NM	12.63	12.59	0.04	4756.18
BH24	01/12/22	4768.59	NM	12.77	12.76	0.01	4756.02
BH24	04/12/22	4768.59	NM	12.93	12.89	0.04	4755.88
BH24	04/13/22	4768.59	22.61	13.08	ND	ND	4755.70
BH24	07/14/22	4768.59	NM	13.14	13.13	0.01	4755.65
BH24	10/13/22	4768.59	22.74	14.69	14.51	0.18	4754.04
BH25	05/27/20	4768.17	24.62	10.29	ND	ND	4758.11
BH25	07/08/20	4768.17	24.70	10.60	ND	ND	4757.80
BH25	10/07/20	4768.17	24.08	11.32	ND	ND	4757.08
BH25	01/18/21	4768.17	23.63	11.89	ND	ND	4756.51
BH25	04/29/21	4768.17	23.33	12.15	ND	ND	4756.25
BH25	07/26/21	4768.17	23.18	12.04	ND	ND	4756.36
BH25	10/20/21	4768.17	23.09	12.69	ND	ND	4755.71
BH25	01/12/22	4768.17	22.96	12.83	ND	ND	4755.57
BH25	04/12/22	4768.17	22.92	13.00	ND	ND	4755.40
BH25	07/14/22	4768.17	22.87	13.14	ND	ND	4755.26
BH25	10/13/22	4768.17	22.70	14.54	ND	ND	4753.63

**TABLE 1**  
**GROUNDWATER ELEVATION DATA**  
**NOBLE ENERGY, INC. - BEEBE DRAW RG 26-9, 23**

Monitoring Well ID	Date	Top of Casing Elevation (ft. AMSL)	Total Depth (ft. BTOC)	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation* (ft. AMSL)
BH26	05/27/20	4774.57	28.30	12.51	ND	ND	4758.51
BH26	07/08/20	4774.57	27.70	12.22	ND	ND	4758.80
BH26	10/07/20	4774.57	27.18	13.25	ND	ND	4757.77
BH26	01/18/21	4774.57	26.80	13.91	ND	ND	4757.11
BH26	04/29/21	4774.57	26.62	14.06	ND	ND	4756.96
BH26	07/26/21	4774.57	26.44	14.00	ND	ND	4757.02
BH26	10/20/21	4774.57	26.37	14.66	ND	ND	4756.36
BH26	01/12/22	4774.57	26.24	14.89	ND	ND	4756.13
BH26	04/12/22	4774.57	26.07	15.02	ND	ND	4756.00
BH26	07/14/22	4774.57	26.03	12.08	ND	ND	4758.94
BH26	10/13/22	4774.57	25.81	20.51	ND	ND	4754.06
BH27	05/27/20	4768.15	24.75	11.35	ND	ND	4757.04
BH27	07/08/20	4768.15	24.75	11.49	ND	ND	4756.90
BH27	10/07/20	4768.15	24.75	12.02	ND	ND	4756.37
BH27	01/18/21	4768.15	24.50	12.52	ND	ND	4755.87
BH27	04/29/21	4768.15	24.14	12.86	ND	ND	4755.53
BH27	07/26/21	4768.15	23.99	12.74	ND	ND	4755.65
BH27	10/20/21	4768.15	24.01	13.30	ND	ND	4755.09
BH27	01/12/22	4768.15	23.89	13.36	ND	ND	4755.03
BH27	04/12/22	4768.15	23.62	13.56	ND	ND	4754.83
BH27	07/14/22	4768.15	23.61	13.75	ND	ND	4754.64
BH27	10/13/22	4768.15	23.38	14.91	ND	ND	4753.24

**Notes:**

<sup>(1)</sup> Groundwater elevation data collected prior to January 2020 can be referenced in *Beebe Draw RG 26-9, 23 Second Quarter 2020 Site Monitoring Data* (COGCC Document # : 402425154)

<sup>(2)</sup> Depth to water measurements were collected from top of casing and adjusted using survey data to reflect depth of water from ground surface.

<sup>(3)</sup> LNAPL observed in bailer at start of purge. Three volumes plus one gallon was purged from well before sample collected. LNAPL was not observed in sample bottle.

<sup>(4)</sup> Well casing damaged, therefore elevation control lost.

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

LNAPL relative density was estimated to be approximately 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  
 NM= Not Measured

TABLE 2  
GROUNDWATER ANALYTICAL DATA  
NOBLE ENERGY, INC. - BEEBE DRAW RG 26-9, 23



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 Groundwater Standard <sup>(1)</sup>		5	560	700	1,400	140	67	67	<1.25 x Background	250 or <1.25 x Background	250 or <1.25 x Background
BH01	01/07/20	35	<1.0	73	170	NA	NA	NA	NA	NA	NA
BH01	04/20/20	72	<1.0	<1.0	110	NA	NA	NA	NA	NA	NA
BH01	07/08/20	37	<1.0	44	190	NA	NA	NA	NA	NA	NA
BH01	10/07/20	72	<1.0	110	520	NA	NA	NA	NA	NA	NA
BH01 <sup>4</sup>	01/18/21	15	<1.0	<1.0	24	12	<1.0	<1.0	2,650	474	1,760
BH01	04/29/21	50	<1.0	41	140	29	270	4	NA	NA	NA
BH01	07/26/21	64.0	<1.0	54.4	70.9	51.0	344	11.6	NA	NA	NA
BH01	10/20/21	28	<1.0	33	46	30	210	2.0	NA	NA	NA
BH01	01/12/22	42.7	27.9	53.9	114	118	360	11.5	NA	NA	NA
BH01	04/12/22	22	<1.0	19	78	19	87	3.6	NA	NA	NA
BH01	07/14/22	1.9	<1.0	1.6	36	<1.0	16	<1.0	NA	NA	NA
BH01	10/13/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH02	01/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH02	04/20/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH02	07/08/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH02	10/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH02 <sup>4</sup>	01/18/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,610	740	918
BH02	04/29/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NR	NR	NR
BH02	07/26/21	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	3,450	656	703
BH02	10/20/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,170	1,040	1,360
BH02	01/12/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	4,140	821	1,070
BH02	04/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,730	801	2,630
BH02	07/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,870	847	1,200
BH02	10/13/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,850	783	1,000
BH03	01/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH03	04/20/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH03	07/08/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH03	10/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH03 <sup>4</sup>	01/18/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,880	214	2,740
BH03	04/29/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NR	NR	NR
BH03	07/26/21	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	3,990	260	1,850
BH03	10/20/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,820	271	2,460
BH03	01/12/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	3,450	212	2,240
BH03	04/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,710	224	2,360
BH03	07/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,860	273	1,830
BH03	10/13/22	<1.0	<1.0	<1.0	<2.0	4.0	<1.0	<1.0	2,160	264	1,650
BH04	01/07/20	23	<1.0	31	200	NA	NA	NA	NA	NA	NA
BH04	04/20/20	36	<1.0	30	180	NA	NA	NA	NA	NA	NA
BH04	07/08/20	26	<1.0	33	180	NA	NA	NA	NA	NA	NA
BH04	10/07/20	6.0	<1.0	1.8	21	NA	NA	NA	NA	NA	NA
BH04 <sup>4</sup>	01/18/21	7.3	<1.0	15	<2.0	4.7	95	12	3,490	360	1,750
BH04	04/29/21	3.9	<1.0	14	93	4.7	140	94	NR	NR	NR
BH04	07/26/21	2.32	<1.0	1.99	12.0	<4.0	19.8	9.3	6,300	760	2,980
BH04	10/20/21	<1.0	<1.0	5.3	33.0	<1.0	37.0	18.0	4,110	797	3,270
BH04	01/12/22	2.57	<1.00	15.4	94.8	<2.00	166	70.6	5,880	718	2,670
BH04	04/12/22	1.4	<1.0	10	49	2.7	120	21	5,270	735	4,080
BH04	07/14/22	1.9	<1.0	<1.0	47	<1.0	25	53	4,410	790	2,250
BH04	10/13/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,680	679	1,300
BH05	01/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH05	04/20/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH05	07/08/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH05	10/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH05 <sup>4</sup>	01/18/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,620	1,350	5,780
BH05	04/29/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NR	NR	NR
BH05	07/26/21	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	4,810	638	1,380
BH05	10/20/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,150	731	1,470



TABLE 2  
GROUNDWATER ANALYTICAL DATA  
NOBLE ENERGY, INC. - BEEBE DRAW RG 26-9, 23



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 Groundwater Standard <sup>(1)</sup>		5	560	700	1,400	140	67	67	<1.25 x Background	250 or <1.25 x Background	250 or <1.25 x Background
BH05	01/12/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	4,630	654	1,330
BH05	04/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,730	677	3,000
BH05	07/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	4,080	683	1,210
BH05	10/13/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,990	370	522
BH06R	01/07/20	2.0	<1.0	67	25	NA	NA	NA	NA	NA	NA
BH06R	04/20/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH06R	07/08/20	<1.0	<1.0	7.2	<2.0	NA	NA	NA	NA	NA	NA
BH06R	10/07/20	<1.0	<1.0	19	<2.0	NA	NA	NA	NA	NA	NA
BH06R <sup>4</sup>	01/18/21	<1.0	<1.0	3.2	<2.0	2.2	17	3.5	2,680	1,150	2,310
BH06R	04/29/21	1.2	<1.0	11	<2.0	<1.0	53	7.2	NR	NR	NR
BH06R	07/26/21	<1.0	<1.0	37.7	1.73	<4.0	254	13.7	4,920	718	2,080
BH06R	10/20/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,310	738	2,490
BH06R	01/12/22	<1.00	29.9	<1.00	<1.00	<2.00	13.2	<2.00	4,100	661	1,630
BH06R	04/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	29	<1.0	3,280	694	2,480
BH06R	07/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	4,190	849	1,660
BH06R	10/13/22	<1.0	<1.0	<1.0	<2.0	5.0	<1.0	<1.0	2,470	659	990
BH07	01/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH07	04/20/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH07	07/08/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH07	10/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH07 <sup>4</sup>	01/18/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,440	706	1,920
BH07	04/29/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NR	NR	NR
BH07	07/26/21	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	5,130	523	2,450
BH07	10/20/21	<1.0	<1.0	<1.0	<2.0	<1.0	1.3	<1.0	3,950	629	3,260
BH07	01/12/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	4,660	504	2,170
BH07	04/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	4,080	419	3,310
BH07	07/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	4,210	601	2,470
BH07	10/13/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,150	482	2,530
BH08	01/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH08	04/20/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH08	07/08/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH08	10/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH08 <sup>4</sup>	01/18/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,470	607	957
BH08	04/28/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH08	07/26/21	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	NA	NA	NA
BH08	10/20/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH08	01/12/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	NA	NA	NA
BH08	04/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH08	07/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH08	10/13/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH09	01/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH09	04/20/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH09	07/08/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH09	10/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH09 <sup>4</sup>	01/18/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,010	672	1,670
BH09	04/29/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NR	NR	NR
BH09	07/26/21	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	5,380	881	2,280
BH09	10/20/21	<1.0	<1.0	<1.0	<2.0	<1.0	1.3	<1.0	3,350	765	2,560
BH09	01/12/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	5,270	716	2,300
BH09	04/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	4,880	885	3,600
BH09	07/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	4,060	694	2,000
BH09	10/13/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,450	371	1,770
BH10	01/07/20	2.5	<1.0	4.1	46	NA	NA	NA	NA	NA	NA
BH10	04/20/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH10	07/08/20	1.9	<1.0	4.0	27	NA	NA	NA	NA	NA	NA
BH10	10/07/20	2.5	<1.0	2.5	15	NA	NA	NA	NA	NA	NA

TABLE 2  
GROUNDWATER ANALYTICAL DATA  
NOBLE ENERGY, INC. - BEEBE DRAW RG 26-9, 23



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 Groundwater Standard <sup>(1)</sup>		5	560	700	1,400	140	67	67	<1.25 x Background	250 or <1.25 x Background	250 or <1.25 x Background
BH10 <sup>0</sup>	01/18/21	1.5	<1.0	<1.0	<2.0	9.4	35	8.5	2,740	544	1,620
BH10	04/29/21	2.5	<1.0	1.5	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH10	07/26/21	2.88	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	NA	NA	NA
BH10	10/20/21	1.8	<1.0	1.4	<1.0	<1.0	8	<1.0	NA	NA	NA
BH10	01/12/22	1.80	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	NA	NA	NA
BH10	04/12/22	1.3	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH10	07/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH10	10/13/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH11	01/07/20	Unable to locate - Well Destroyed				NA	NA	NA	NA	NA	NA
BH11	04/20/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH11	07/08/20	3.5	<1.0	9.4	58	NA	NA	NA	NA	NA	NA
BH11	10/07/20	8.6	<1.0	15	75	NA	NA	NA	NA	NA	NA
BH11 <sup>4</sup>	01/18/21	1.8	<1.0	2.9	<2.0	1.3	4.1	1.3	3,640	1,450	5,810
BH11	04/29/21	5.2	<1.0	7.6	38.0	<1.0	5.2	7.1	NR	NR	NR
BH11	07/26/21	7.00	<1.0	3.37	23.2	<4.0	2.36	4.60	7,520	880	2,940
BH11	10/20/21	<1.0	<1.0	1.4	7.9	<1.0	<1.0	1.40	3,640	923	2,670
BH11	01/12/22	<1.00	<1.00	1.80	13.1	<1.00	<2.00	2.96	5,930	794	3,080
BH11	04/12/22	<1.0	<1.0	<1.0	6.8	<1.0	<1.0	1.8	4,660	741	3,840
BH11	07/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	2.8	4,620	840	2,680
BH11	10/13/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,040	893	1,960
BH12	01/07/20	1.1	<1.0	1.1	8.6	NA	NA	NA	NA	NA	NA
BH12	04/20/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH12	07/08/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH12	10/07/20	2.0	<1.0	1.1	10	NA	NA	NA	NA	NA	NA
BH12 <sup>4</sup>	01/18/21	1.2	<1.0	1.6	<2.0	<1.0	9.1	2.0	3,210	619	2,100
BH12	04/29/21	2.1	<1.0	<1.0	3.3	<1.0	<1.0	1.4	NR	NR	NR
BH12	07/26/21	3.22	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	5,730	792	2,440
BH12	10/20/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,750	990	2,730
BH12	01/12/22	1.81	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	5,220	736	2,860
BH12	04/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	4,870	739	3,770
BH12	07/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	4,930	736	2,960
BH12	10/13/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,180	780	2,020
BH13	01/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH13	04/20/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH13	07/08/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH13	10/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH13 <sup>4</sup>	01/18/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,500	1,650	4,530
BH13	04/29/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NR	NR	NR
BH13	07/26/21	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	6,300	2,610	948
BH13	10/20/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	4,270	1,090	3,120
BH13	01/12/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	6,230	1,030	3,060
BH13	04/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5,100	949	3,870
BH13	07/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5,180	997	2,950
BH13	10/13/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,270	938	1,920
BH14	01/07/20	3.2	<1.0	55	950	NA	NA	NA	NA	NA	NA
BH14	04/20/20	<1.0	<1.0	<1.0	540	NA	NA	NA	NA	NA	NA
BH14	07/08/20	Not Sampled - 0.04 feet of LNAPL present in monitoring well				NA	NA	NA	NA	NA	NA
BH14	10/07/20	1.7	<1.0	120	130	NA	NA	NA	NA	NA	NA
BH14 <sup>4</sup>	01/18/21	<1.0	<1.0	17	180.0	15	<1.0	<1.0	3,400	742	2,120
BH14	04/29/21	Obstruction in Well - Unable to Sample									
BH14	07/26/21	Obstruction in Well - Unable to Sample									
BH14	10/22/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,500	547	1,930
BH14	01/12/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	5,890	855	3,100
BH14	04/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH14	07/14/22	Obstruction in Well - Unable to Sample									
BH14	10/13/22	Monitoring Well Dry									

TABLE 2  
GROUNDWATER ANALYTICAL DATA  
NOBLE ENERGY, INC. - BEEBE DRAW RG 26-9, 23



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 Groundwater Standard <sup>(1)</sup>		5	560	700	1,400	140	67	67	<1.25 x Background	250 or <1.25 x Background	250 or <1.25 x Background
BH15	01/07/20	<1.0	<1.0	<1.0	5.6	NA	NA	NA	NA	NA	NA
BH15	04/20/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH15	07/08/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH15	10/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH15 <sup>4</sup>	01/18/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,800	439	1,690
BH15	04/29/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH15	07/26/21	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	NA	NA	NA
BH15	10/20/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH15	01/12/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	NA	NA	NA
BH15	04/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH15	07/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	6.3	NA	NA	NA
BH15	10/13/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH16	01/07/20	1.6	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH16	04/20/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH16	07/08/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH16	10/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH16 <sup>4</sup>	01/18/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,950	684	1,770
BH16	04/29/21	2	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NR	NR	NR
BH16	07/26/21	<1.0	<1.0	<1.0	1.11	<4.0	<1.0	<1.0	4,880	841	2,050
BH16	10/20/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,230	939	2,250
BH16	01/12/22	1.28	<1.00	<1.00	1.55	<2.00	<2.00	<2.00	3,630	803	2,040
BH16	04/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,760	812	2,790
BH16	07/14/22	1.2	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	4,250	856	2,210
BH16	10/13/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,940	760	1,770
BH17	01/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH17	04/20/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH17	07/08/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH17	10/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH17 <sup>3,4</sup>	01/18/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,610	529	1,440
BH17 <sup>3</sup>	04/29/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NR	NR	NR
BH17 <sup>3</sup>	07/26/21	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	4,600	712	2,020
BH17 <sup>3</sup>	10/20/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,450	872	2,530
BH17 <sup>3</sup>	01/12/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	3,860	716	2,270
BH17 <sup>3</sup>	04/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,890	707	3,040
BH17 <sup>3</sup>	07/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	4,110	743	2,240
BH17 <sup>3</sup>	10/13/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,690	664	1,570
BH18	01/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH18	04/20/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH18	07/08/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH18	10/07/20	1.8	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH18 <sup>4</sup>	01/18/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,880	634	1,570
BH18	04/29/21	4.9	<1.0	<1.0	9.3	2.5	1.1	1.5	NA	NA	NA
BH18	07/26/21	7.22	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	NA	NA	NA
BH18	10/20/21	12	<1.0	2.1	27	<1.0	3.9	2.9	NA	NA	NA
BH18	01/12/22	17.4	<1.00	1.43	17.5	<2.00	4.22	<2.00	NA	NA	NA
BH18	04/12/22	9.8	<1.0	3.0	38	<1.0	4.8	1.7	NA	NA	NA
BH18	07/14/22	5.1	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH19	10/13/22	5.7	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH19	01/07/20	3.5	<1.0	200	1,600	NA	NA	NA	NA	NA	NA
BH19	04/20/20	<1.0	<1.0	<1.0	200	NA	NA	NA	NA	NA	NA
BH19	07/08/20	1.3	<1.0	130	1,100	NA	NA	NA	NA	NA	NA
BH19	10/07/20	<1.0	<1.0	10	1,100	NA	NA	NA	NA	NA	NA
BH19 <sup>4</sup>	01/18/21	<1.0	<1.0	<1.0	110.0	<1.0	<1.0	<1.0	1,950	556	803
BH19	04/29/21	<1.0	<1.0	30	240	1.2	25	23	NA	NA	NA
BH19	07/26/21	<1.0	<1.0	49.3	300	<4.0	60.0	50.9	NA	NA	NA
BH19	10/20/21	<1.0	<1.0	75	360	2.3	73	50	NA	NA	NA

TABLE 2  
GROUNDWATER ANALYTICAL DATA  
NOBLE ENERGY, INC. - BEEBE DRAW RG 26-9, 23



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 Groundwater Standard <sup>(1)</sup>		5	560	700	1,400	140	67	67	<1.25 x Background	250 or <1.25 x Background	250 or <1.25 x Background
BH19	01/12/22	1.03	<1.00	43.4	371	<2.00	85.5	70.9	NA	NA	NA
BH19	04/12/22	<1.0	<1.0	290	2,500	4.1	890	610	NA	NA	NA
BH19	07/14/22	<1.0	<1.0	4.6	120	6.6	50	34	NA	NA	NA
BH19	10/13/22	<1.0	<1.0	21	130	<1.0	110	88	NA	NA	NA
BH20	01/07/20	1.9	<1.0	<1.0	18	NA	NA	NA	NA	NA	NA
BH20	04/20/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH20	07/08/20	<1.0	<1.0	1.9	17	NA	NA	NA	NA	NA	NA
BH20	10/07/20	<1.0	<1.0	<1.0	5.4	NA	NA	NA	NA	NA	NA
BH20 <sup>4</sup>	01/18/21	1.4	<1.0	38	<2.0	6.8	160	8.8	2,950	684	1,770
BH20	04/29/21	<1.0	<1.0	4.7	120	2.9	57	47	NR	NR	NR
BH20	07/26/21	<1.0	<1.0	<1.0	<1.0	<4.0	11.1	10.5	2,900	693	943
BH20	10/20/21	<1.0	<1.0	39	210	2.6	58	40	2,230	841	1,120
BH20	01/12/22	1.52	<1.00	48.8	474	3.26	131	104	3,070	710	994
BH20	04/12/22	1.4	<1.0	100	990	2.3	390	310	3,050	414	1,940
BH20	07/14/22	<1.0	<1.0	6.1	64	6.3	37	28	2,960	765	987
BH20	10/13/22	<1.0	<1.0	1.2	62	<1.0	31	32	2,060	589	848
BH21	01/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH21	04/20/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH21	07/08/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH21	10/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH21 <sup>4</sup>	01/18/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,030	374	563
BH21	04/29/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH21	07/26/21	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	NA	NA	NA
BH21	10/20/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH21	01/12/22	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<5.00	NA	NA	NA
BH21	04/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH21	07/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH21	10/13/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH22	05/26/20	4.1	<1.0	480	3,700	NA	NA	NA	NA	NA	NA
BH22	07/08/20	Not Sampled - 0.02 feet of LNAPL present in monitoring well				NA	NA	NA	NA	NA	NA
BH22	10/07/20	<1.0	<1.0	1.6	43	NA	NA	NA	NA	NA	NA
BH22 <sup>4</sup>	01/18/21	<1.0	<1.0	<1.0	83	13	10	2.6	2,290	342	574
BH22	04/29/21	<1.0	<1.0	<1.0	60	9.7	130	120	NA	NA	NA
BH22	07/26/21	1.02	<1.0	1.11	6.90	4.16	119	123	NA	NA	NA
BH22	10/20/21	<1.0	<1.0	22	330	19	300	180	NA	NA	NA
BH22	01/12/22	<1.00	<1.00	82.9	1,980	41.3	5,260	2,980	NA	NA	NA
BH22	04/13/22	<1.0	<1.0	98	1,100	79	1,000	430	NA	NA	NA
BH22	07/14/22	Not Sampled - 0.01 feet of LNAPL present in monitoring well				NA	NA	NA	NA	NA	NA
BH22	10/13/22	<1.0	<1.0	38	330	13	280	83	NA	NA	NA
BH23	05/26/20	<1.0	<1.0	3.2	29	NA	NA	NA	NA	NA	NA
BH23	07/08/20	<1.0	<1.0	2.1	14	NA	NA	NA	NA	NA	NA
BH23	10/07/20	<1.0	<1.0	<1.0	2.3	NA	NA	NA	NA	NA	NA
BH23 <sup>4</sup>	01/18/21	<1.0	<1.0	<1.0	<2.0	<1.0	3.6	17	1,320	37.0	494
BH23	04/29/21	<1.0	<1.0	1.2	11.0	<1.0	3.6	17	NA	NA	NA
BH23	07/26/21	<1.0	<1.0	<1.0	3.4	<4.0	2.04	10.9	NA	NA	NA
BH23	10/20/21	<1.0	<1.0	<1.0	2.7	<1.0	<1.0	25	NA	NA	NA
BH23	01/12/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	26.8	NA	NA	NA
BH23	04/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	9.0	NA	NA	NA
BH23	07/14/22	<1.0	<1.0	<1.0	6.0	<1.0	<1.0	21	NA	NA	NA
BH23	10/13/22	<1.0	<1.0	1.2	18	<1.0	3.8	67	NA	NA	NA
BH24	05/27/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH24	07/08/20	Not Sampled - 0.07 feet of LNAPL present in monitoring well				NA	NA	NA	NA	NA	NA
BH24	10/07/20	<1.0	<1.0	43	320	NA	NA	NA	NA	NA	NA
BH24 <sup>4</sup>	01/18/21	<1.0	<1.0	35	<2.0	9.4	170	29	1,350	159	4,730
BH24	04/29/21	<1.0	<1.0	34	210.0	5.7	130	130	NR	NR	NR
BH24	07/26/21	<1.0	<1.0	54.0	368	<4.0	492	437	2,280	550	654

TABLE 2  
GROUNDWATER ANALYTICAL DATA  
NOBLE ENERGY, INC. - BEEBE DRAW RG 26-9, 23

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 Groundwater Standard <sup>(1)</sup>		5	560	700	1,400	140	67	67	<1.25 x Background	250 or <1.25 x Background	250 or <1.25 x Background
BH24	10/20/21	<1.0	<1.0	16	74	3.2	130	49	1,790	699	903
BH24	01/12/22	<1.00	<1.00	20.5	256	3.59	435	352	2,430	551	771
BH24	04/13/22	<1.0	<1.0	34	170	6.1	400	100	2,080	514	580
BH24	07/14/22	<1.0	<1.0	60	340	5.6	430	110	2,300	509	773
BH24	10/13/22	<1.0	<1.0	30	230	3.1	300	150	1,620	338	732
BH25	05/27/20	<1.0	<1.0	<1.0	14	NA	NA	NA	NA	NA	NA
BH25	07/08/20	<1.0	<1.0	1.8	13	NA	NA	NA	NA	NA	NA
BH25	10/07/20	<1.0	<1.0	<1.0	7.8	NA	NA	NA	NA	NA	NA
BH25 <sup>(4)</sup>	01/18/21	<1.0	<1.0	<1.0	<2.0	<1.0	7.1	2.7	1,870	7.55	770
BH25	04/29/21	<1.0	<1.0	<1.0	<2.0	<1.0	1.9	2.8	NR	NR	NR
BH25	07/26/21	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	2.07	3,290	739	1,140
BH25	10/20/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,320	867	1,430
BH25	01/12/22	<1.00	<1.00	1.88	13.7	<2.00	46.2	88.5	3,020	744	1,120
BH25	04/12/22	<1.0	<1.0	<1.0	2.4	<1.0	9.2	22	2,780	366	1,830
BH25	07/14/22	<1.0	<1.0	<1.0	5.9	<1.0	44	69	3,070	758	1,240
BH25	10/13/22	<1.0	<1.0	1.6	38	<1.0	63	110	1,770	379	870
BH26	05/27/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH26	07/08/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH26	10/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH26 <sup>(4)</sup>	01/18/21	<1.0	<1.0	<1.0	<2.0	<1.0	1.1	<1.0	2,530	553	3,560
BH26	04/29/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NR	NR	NR
BH26	07/26/21	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	4,590	940	1,820
BH26	10/20/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,200	1,110	2,070
BH26	01/12/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	4,160	925	1,790
BH26	04/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3,940	911	2,840
BH26	07/14/22	2.2	2.4	<1.0	<2.0	<1.0	<1.0	<1.0	4,080	989	1,910
BH26	10/13/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,600	810	1,350
BH27	05/27/20	<1.0	<1.0	4.5	<2.0	NA	NA	NA	NA	NA	NA
BH27	07/08/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH27	10/07/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
BH27 <sup>(4)</sup>	01/18/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,730	25.5	228
BH27	04/29/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	2.5	NA	NA	NA
BH27	07/26/21	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	NA	NA	NA
BH27	10/20/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH27	01/12/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	2.29	NA	NA	NA
BH27	04/12/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH27	07/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
BH27	10/13/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA

**Notes:**

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

<sup>(2)</sup> Groundwater analytical data received prior to January 2020 can be referenced in *Beebe Draw RG 26-9, 23 Second Quarter 2020 Site Monitoring Data* (COGCC Document # : 402425154)

<sup>(3)</sup> Monitoring well used as background for inorganic analytes limit.

<sup>(4)</sup> Inorganic groundwater analytical results have been omitted from the first and second quarter 2021 sampling events due to laboratory equipment issues; see case narrative in attached laboratory analytical report for additional details

**Definitions:**

< = Analytical result is less than the indicated laboratory reporting limit

NA = Not analyzed, analyte removed or not included in COGCC sampling plan.

NR = Not reported: Inorganic ground water analytical results omitted due to laboratory error. Case narrative provided in the associated laboratory analytical report.

COGCC = Colorado Oil and Gas Conservation Commission

1,2,4 - TMB = 1,2,4 Trimethylbenzene

µg/L = Micrograms per liter

1,3,5 - TMB = 1,3,5 Trimethylbenzene

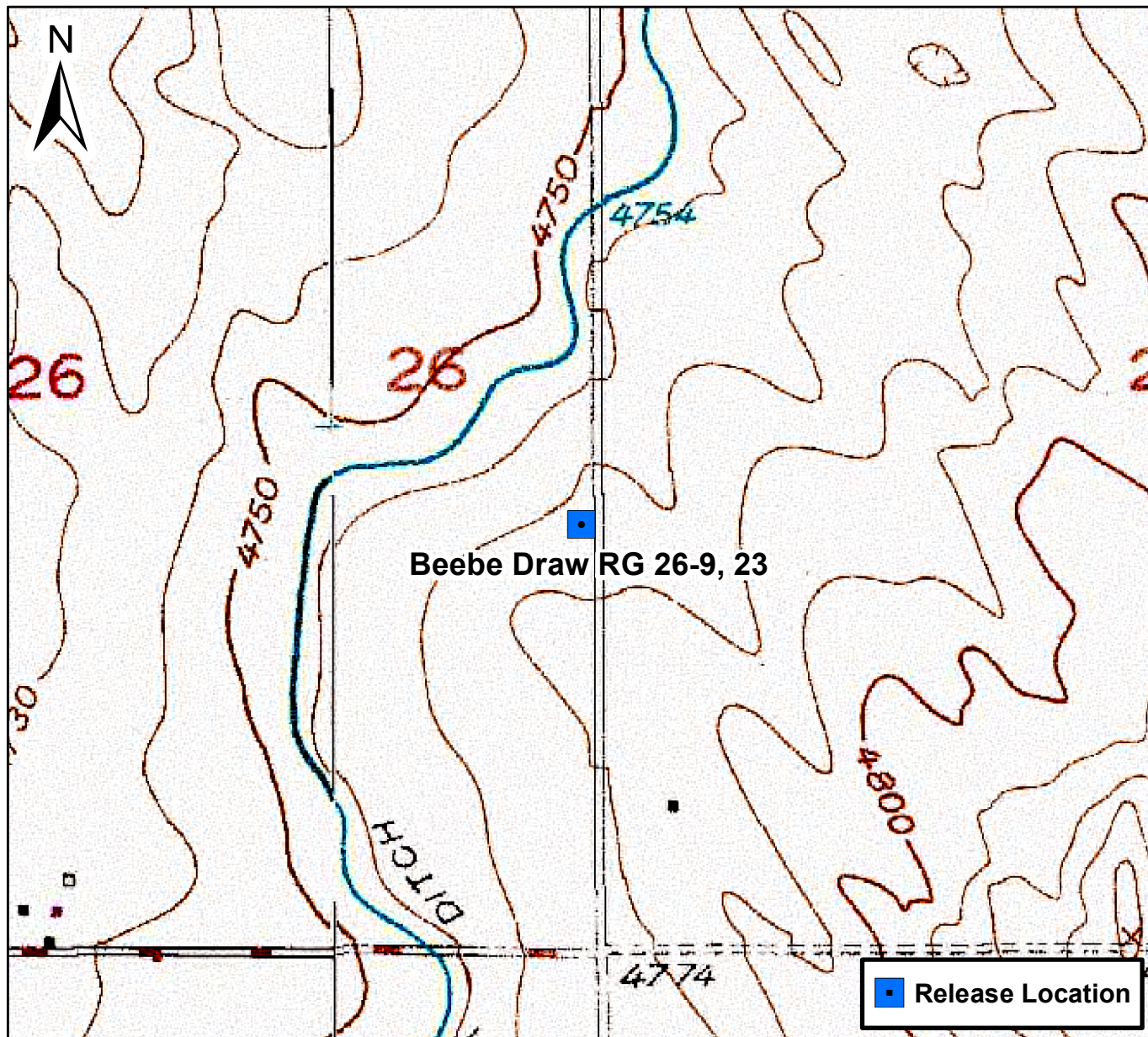
mg/L = Milligrams per liter

TDS = Total Dissolved Solids

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

**Bold results exceed the COGCC Table 915-1 standard for groundwater inorganic parameters, site-specific background assessment is on-going for groundwater inorganic constituents.**





0 750 1,500 Feet


## FIGURE 1

Site Location Map  
Beebe Draw RG 26-9, 23  
NESE Sec. 26-T4N-R65W  
Weld County, Colorado





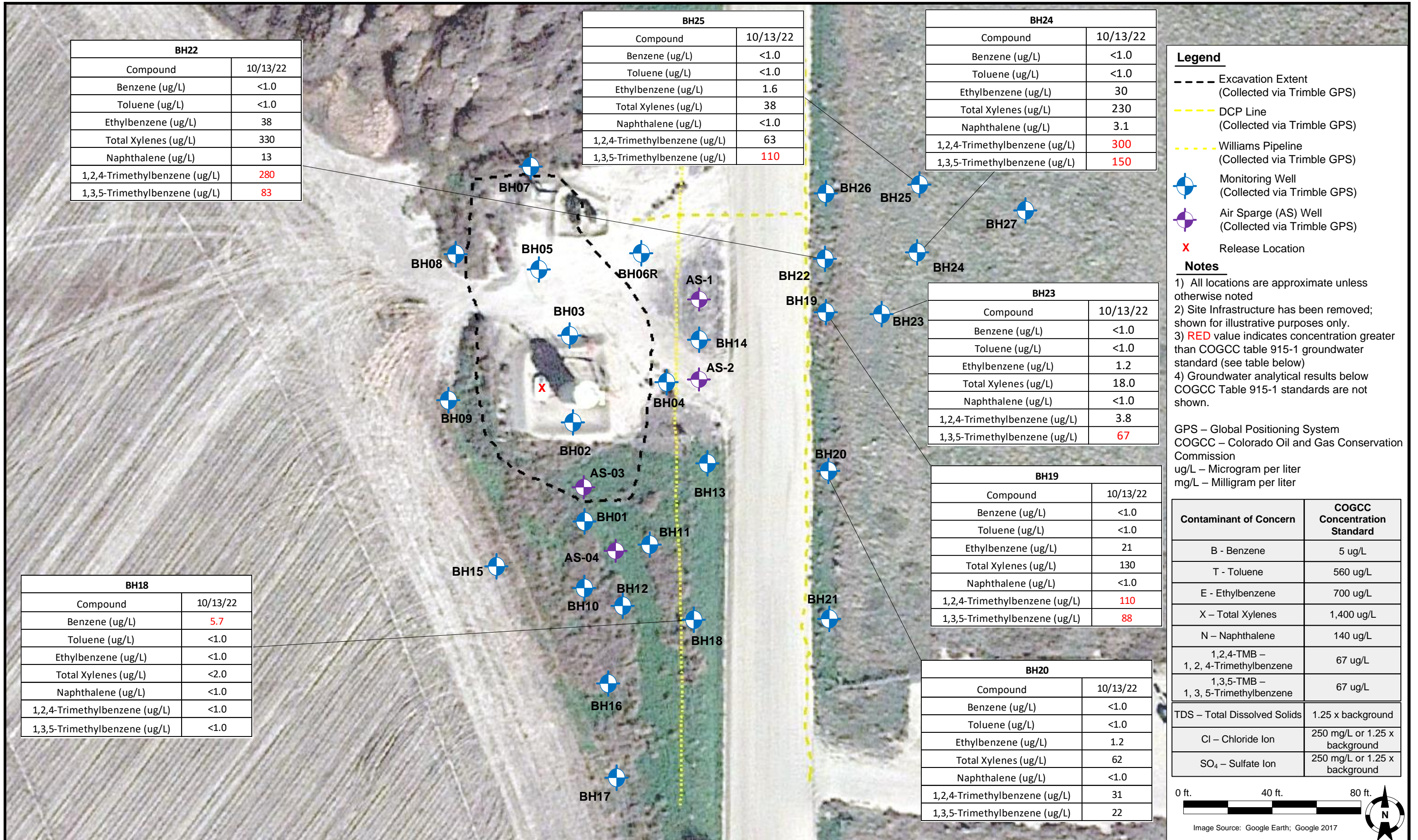


DATE: 03/16/2021	<div><div>Tasman, Inc. 6855 W 119<sup>th</sup> Ave. Broomfield, CO 80020</div></div>	Noble Energy, Inc. – DJ Basin Beebe Draw RG 26-9, 23 NESE, Section 26, Township 4 North, Range 65 West Weld County, Colorado	Site Overview Map	FIGURE 2
DESIGNED BY: TC				
DRAWN BY: TC				

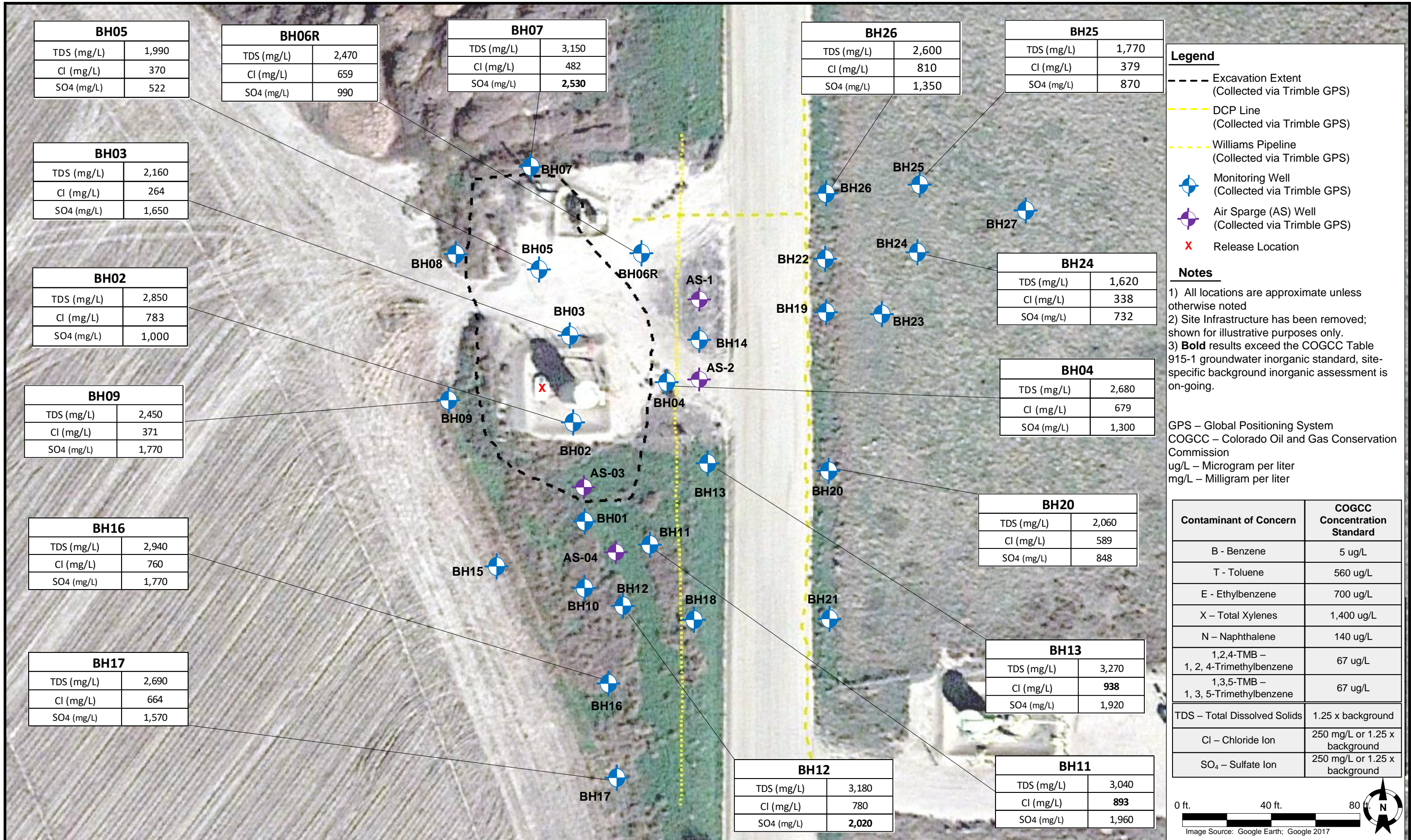






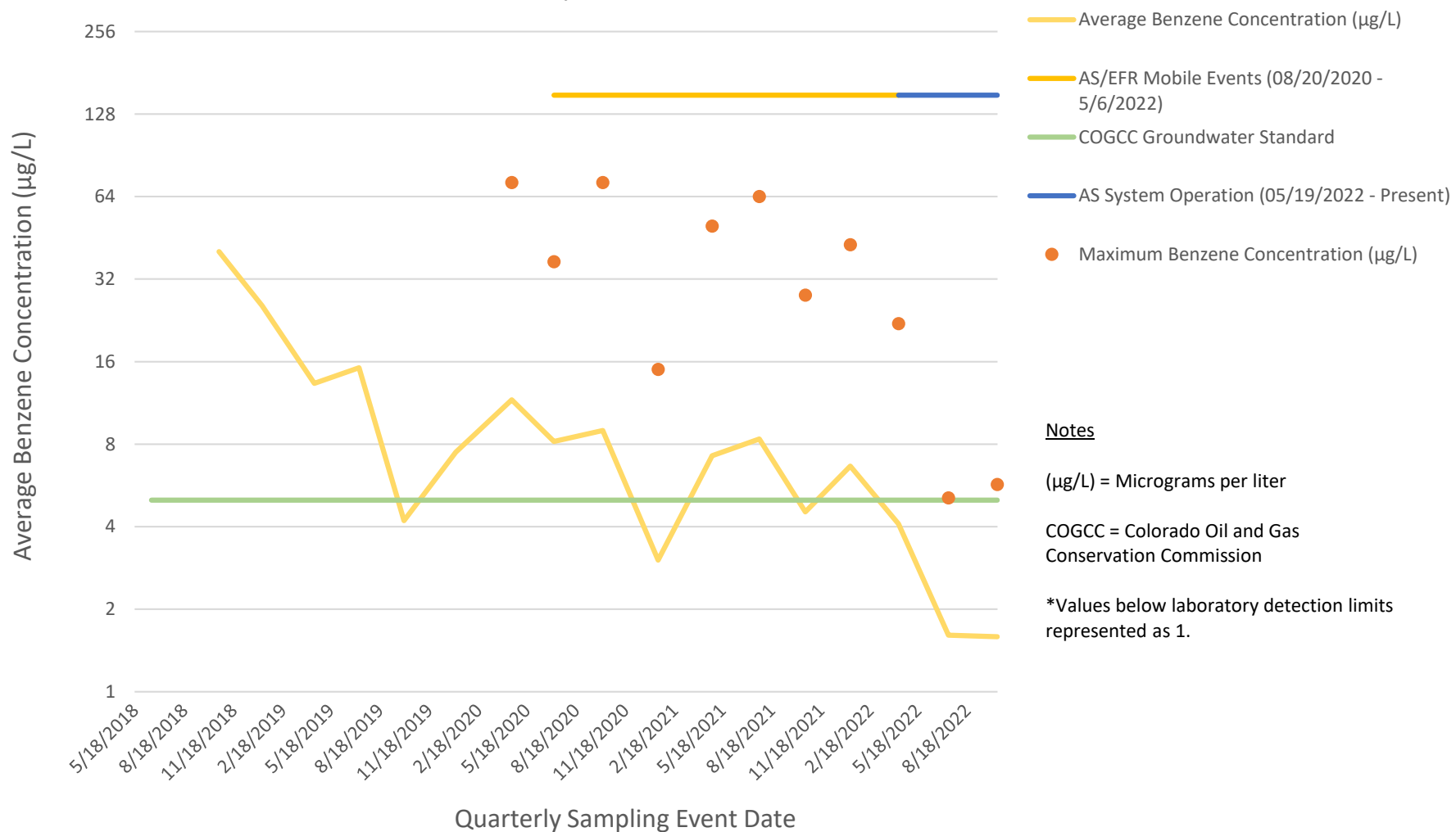








**FIGURE 5**  
**BEEBE DRAW RG 26-9, 23**  
 Quarterly Benzene Concentrations



# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 12, 2022

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Beebe Draw RG 26-9,23

Work Order #2212069

Enclosed are the results of analyses for samples received by Summit Scientific on 12/02/22 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely".

Scott Sheely For Paul Shrewsbury  
President

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 21, 2022

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Beebe Draw RG 26-9,23

Work Order #2210218

Enclosed are the results of analyses for samples received by Summit Scientific on 10/13/22 17:47. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury

President



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

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	2210218-01	Water	10/13/22 14:07	10/13/22 17:47
BH02	2210218-02	Water	10/13/22 12:29	10/13/22 17:47
BH03	2210218-03	Water	10/13/22 12:49	10/13/22 17:47
BH04	2210218-04	Water	10/13/22 13:49	10/13/22 17:47
BH05	2210218-05	Water	10/13/22 13:00	10/13/22 17:47
BH06R	2210218-06	Water	10/13/22 11:10	10/13/22 17:47
BH07	2210218-07	Water	10/13/22 12:42	10/13/22 17:47
BH08	2210218-08	Water	10/13/22 11:34	10/13/22 17:47
BH09	2210218-09	Water	10/13/22 13:09	10/13/22 17:47
BH10	2210218-10	Water	10/13/22 11:51	10/13/22 17:47
BH11	2210218-11	Water	10/13/22 13:20	10/13/22 17:47
BH12	2210218-12	Water	10/13/22 13:30	10/13/22 17:47
BH13	2210218-13	Water	10/13/22 13:14	10/13/22 17:47
BH15	2210218-14	Water	10/13/22 11:46	10/13/22 17:47
BH16	2210218-15	Water	10/13/22 13:31	10/13/22 17:47
BH17	2210218-16	Water	10/13/22 13:54	10/13/22 17:47
BH18	2210218-17	Water	10/13/22 14:22	10/13/22 17:47
BH19	2210218-18	Water	10/13/22 14:01	10/13/22 17:47
BH20	2210218-19	Water	10/13/22 14:08	10/13/22 17:47
BH21	2210218-20	Water	10/13/22 12:00	10/13/22 17:47
BH22	2210218-21	Water	10/13/22 14:34	10/13/22 17:47
BH23	2210218-22	Water	10/13/22 12:21	10/13/22 17:47
BH24	2210218-23	Water	10/13/22 14:42	10/13/22 17:47
BH25	2210218-24	Water	10/13/22 14:32	10/13/22 17:47
BH26	2210218-25	Water	10/13/22 12:59	10/13/22 17:47
BH27	2210218-26	Water	10/13/22 12:05	10/13/22 17:47

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 - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

---

Summit Scientific

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A handwritten signature in black ink, appearing to read 'Maya Austin'.

# Summit Scientific

S<sub>2</sub>

2210218.1

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 3

Client: Noble / Tasman Geoscience

Project Manager: Jake Whritenour

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E-Mail: Jwhritenour@tasman-geo.com

City/State/Zip: Broomfield / CO / 80020

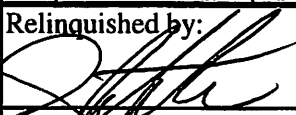
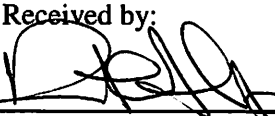
Phone: 303-487-1228

Project Name: Beebe Draw R6 24-9, 23

Sampler Name: Patrick Kline

Project Number: N/A

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	Naphthalene	1,2,4-TMB	1,3,5-TMB	TDS	Chloride	Sulfate		
1	BH01	10/13/22	1407	3	3					X				X	X	X	X				
2	BH02		1229	4			1										X	X	X		
3	BH03		1249	1			1														
4	BH04		1349	1			1														
5	BH05		1300	1			1														
6	BH06R		1110	1			1														
7	BH07		1242	1			1														
8	BH08		1134	3																	
9	BH09		1309	4			1										X	X	X		
10	BH10		1151	3																	

Relinquished by: 	Date/Time: 10/13/22 1630	Received by: Tasman's Lock Box	Date/Time: 10/13/22 1630	<b>Turn Around Time</b> (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <u>X</u> 48 hours _____ <b>Sample Integrity:</b> Temperature Upon Receipt: <u>6.3</u> Samples Intact: <u>Yes</u> No	<b>Notes:</b>
Relinquished by: Tasman's Lock Box	Date/Time: 10/13/22 1747	Received by: 	Date/Time: 10/13/22 1747		
Relinquished by:	Date/Time:	Received by:	Date/Time:		



# Summit Scientific

S<sub>2</sub>

2210218.2

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

Page 2 of 3

Client: Noble / Tasman Geoscience

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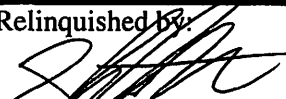
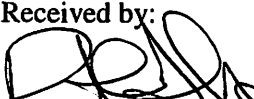
Phone: 303-487-1228

Project Name: Beebe Draw R6 26-9,25

Sampler Name: Patrick Kline

Project Number: N/A

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	1,2,4-TMB	1,3,5-TMB	TDS	Chloride	Sulfate		
1	BH11	10/13/22	1320	4	3		1		X				X	X	X	X	X	X			
2	BH12		1330	1			1									X	X	X			
3	BH13		1314	1			1									X	X	X			
4	BH15		1146	3																	
5	BH16		1331	4			1									X	X	X			
6	BH17		1354	4			1									X	X	X			
7	BH18		1422	3																	
8	BH19		1419	3																	
9	BH20		1408	4			1									X	X	X			
10	BH21		1208	3																	

Relinquished by: 	Date/Time: 10/13/22 1630	Received by: Tasman's Lock Box	Date/Time: 10/13/22 1630	<b>Turn Around Time</b> (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> <b>Sample Integrity:</b> Temperature Upon Receipt: <u>6.3</u> Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Notes:</b>
Relinquished by: Tasman's Lock Box	Date/Time: 10/13/22 1747	Received by: 	Date/Time: 10/13/22 1747		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

# Summit Scientific

S<sub>2</sub>

2210218.3

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
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Page 3 of 3

Client: Noble / Tasman Geoscience

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E-Mail: Jwhritenour@tasman-geo.com

City/State/Zip: Broomfield / CO / 80020

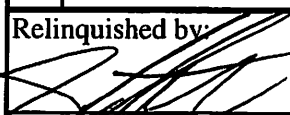

Phone: 303-487-1228

Project Name: Beebe Draw R6 26-9, 23

Sampler Name: Patrick Kline

Project Number: N/A

					Preservative				Matrix				Analysis Requested							Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	1,2,4-TMB	1,3,5-TMB	TDS	Chloride	Sulfate		
1	BH22	10/13/22	1434	3	3				X				X	X	X	X					
2	BH23		1221	3																	
3	BH24		1442	4			1										X	X	X		
4	BH25		1432	4			1										X	X	X		
5	BH26		1259	4			1										X	X	X		
6	BH27		1205	3																	
7																					
8																					
9																					
10																					

Relinquished by: 	Date/Time: 10/13/22 1636	Received by: Tasman's Lock Box	Date/Time: 10/13/22 1630	<b>Turn Around Time</b> (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> <b>Sample Integrity:</b> Temperature Upon Receipt: <u>6.3</u> Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes:
Relinquished by: Tasman's Lock Box	Date/Time: 10/13/22 1747	Received by: 	Date/Time: 10/13/22 1747		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S2 Work Order# 2210218

Client: Noble Tasman Client Project ID: Beebe Draw RG 26-9, 23  
Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: \_\_\_\_\_

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

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

Temp (°C)	6.3	Thermometer #	1
-----------	-----	---------------	---

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature $< 6^{\circ}\text{C}$ ? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	—			on ICE
If custody seals are present, are they intact? <sup>(1)</sup>	—			
Are samples due within 48 hours present?		—		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron ( $\text{Fe}^{2+}$ ), Hexavalent Chromium ( $\text{Cr}^{6+}$ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen			—	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	—			
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	—			
Were all samples received intact? <sup>(1)</sup>	✓			
Was adequate sample volume provided? <sup>(1)</sup>	—			
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	—			
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	—			
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>		—		
Are samples preserved that require preservation ( <b>excluding cooling</b> )? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, $\text{H}_2\text{SO}_4$ , NaOH, $\text{HNO}_3$ , etc.	—			HCl
If samples are acid preserved for metals, is the pH $\leq 2$ ? <sup>(1)</sup> Record the pH in Comments.			—	
If dissolved metals are requested, were samples field filtered?			—	
<u>Additional Comments (if any):</u>				

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

Custodian Printed Name

Date/Time



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

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH01**  
**2210218-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 14:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BFJ0409	10/17/22	10/19/22	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: **10/13/22 14:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		100 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH02**  
**2210218-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 12:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFJ0409	10/17/22	10/19/22	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: **10/13/22 12:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		100 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **10/13/22 12:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	<b>783</b>	12.0		mg/L	200	BFJ0510	10/20/22	10/20/22	EPA 300.0	
Sulfate	<b>1000</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/13/22 12:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	<b>2850</b>	10.0		mg/L	1	BFJ0396	10/17/22	10/17/22	SM2540C	

Summit Scientific

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH03**  
**2210218-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 12:49**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0409	10/17/22	10/19/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>4.0</b>	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/13/22 12:49**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		99.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **10/13/22 12:49**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Chloride</b>	<b>264</b>	12.0	mg/L	200	BFJ0510	10/20/22	10/20/22	EPA 300.0	
<b>Sulfate</b>	<b>1650</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/13/22 12:49**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Total Dissolved Solids</b>	<b>2160</b>	10.0	mg/L	1	BFJ0396	10/17/22	10/17/22	SM2540C	

Summit Scientific

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH04**  
**2210218-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 13:49**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFJ0409	10/17/22	10/20/22	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: **10/13/22 13:49**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		99.7 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **10/13/22 13:49**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	<b>679</b>	12.0		mg/L	200	BFJ0510	10/20/22	10/20/22	EPA 300.0	
Sulfate	<b>1300</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/13/22 13:49**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	<b>2680</b>	10.0		mg/L	1	BFJ0396	10/17/22	10/17/22	SM2540C	

Summit Scientific

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH05**  
**2210218-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0409	10/17/22	10/20/22	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: **10/13/22 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		99.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **10/13/22 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	<b>370</b>	12.0	mg/L	200	BFJ0510	10/20/22	10/20/22	EPA 300.0	
Sulfate	<b>522</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/13/22 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	<b>1990</b>	10.0	mg/L	1	BFJ0396	10/17/22	10/17/22	SM2540C	

Summit Scientific

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Broomfield CO, 80020

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH06R**  
**2210218-06 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0409	10/17/22	10/20/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>5.0</b>	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/13/22 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		100 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **10/13/22 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Chloride</b>	<b>659</b>	12.0	mg/L	200	BFJ0510	10/20/22	10/20/22	EPA 300.0	
<b>Sulfate</b>	<b>990</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/13/22 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Total Dissolved Solids</b>	<b>2470</b>	10.0	mg/L	1	BFJ0396	10/17/22	10/17/22	SM2540C	

Summit Scientific

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

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH07**  
**2210218-07 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 12:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFJ0409	10/17/22	10/20/22	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: **10/13/22 12:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		99.8 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.9 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **10/13/22 12:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	<b>482</b>	12.0		mg/L	200	BFJ0510	10/20/22	10/20/22	EPA 300.0	
Sulfate	<b>2530</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/13/22 12:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	<b>3150</b>	10.0		mg/L	1	BFJ0396	10/17/22	10/17/22	SM2540C	

Summit Scientific

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

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH08**  
**2210218-08 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0409	10/17/22	10/20/22	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: **10/13/22 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		100 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH09**  
**2210218-09 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 13:09**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFJ0409	10/17/22	10/20/22	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: **10/13/22 13:09**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		99.8 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **10/13/22 13:09**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	<b>371</b>	12.0		mg/L	200	BFJ0510	10/20/22	10/20/22	EPA 300.0	
Sulfate	<b>1770</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/13/22 13:09**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	<b>2450</b>	10.0		mg/L	1	BFJ0396	10/17/22	10/17/22	SM2540C	

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

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH10**  
**2210218-10 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 11:51**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0409	10/17/22	10/20/22	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: **10/13/22 11:51**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		99.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH11**  
**2210218-11 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFJ0409	10/17/22	10/20/22	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: **10/13/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		100 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **10/13/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	893	12.0		mg/L	200	BFJ0510	10/20/22	10/20/22	EPA 300.0	
Sulfate	1960	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/13/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	3040	10.0		mg/L	1	BFJ0396	10/17/22	10/17/22	SM2540C	

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Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH12**  
**2210218-12 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0409	10/17/22	10/20/22	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: **10/13/22 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		99.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **10/13/22 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	<b>780</b>	12.0	mg/L	200	BFJ0510	10/20/22	10/20/22	EPA 300.0	
Sulfate	<b>2020</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/13/22 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	<b>3180</b>	10.0	mg/L	1	BFJ0396	10/17/22	10/17/22	SM2540C	

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Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH13**  
**2210218-13 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 13:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0409	10/17/22	10/20/22	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: **10/13/22 13:14**

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

**Anions by EPA Method 300.0**

Date Sampled: **10/13/22 13:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	<b>938</b>	12.0	mg/L	200	BFJ0510	10/20/22	10/20/22	EPA 300.0	
Sulfate	<b>1920</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/13/22 13:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	<b>3270</b>	10.0	mg/L	1	BFJ0396	10/17/22	10/17/22	SM2540C	

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Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]

Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH15**  
**2210218-14 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 11:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFJ0409	10/17/22	10/20/22	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: **10/13/22 11:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		100 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.9 %		21-167		"	"	"	"	

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Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH16**  
**2210218-15 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 13:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0409	10/17/22	10/20/22	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: **10/13/22 13:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		99.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **10/13/22 13:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	<b>760</b>	12.0	mg/L	200	BFJ0510	10/20/22	10/20/22	EPA 300.0	
Sulfate	<b>1770</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/13/22 13:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	<b>2940</b>	10.0	mg/L	1	BFJ0396	10/17/22	10/17/22	SM2540C	

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6855 W. 119th Ave.  
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Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH17**  
**2210218-16 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 13:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0409	10/17/22	10/20/22	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: **10/13/22 13:54**

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

**Anions by EPA Method 300.0**

Date Sampled: **10/13/22 13:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	<b>664</b>	12.0	mg/L	200	BFJ0510	10/20/22	10/20/22	EPA 300.0	
Sulfate	<b>1570</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/13/22 13:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	<b>2690</b>	10.0	mg/L	1	BFJ0396	10/17/22	10/17/22	SM2540C	

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH18**  
**2210218-17 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 14:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Benzene</b>	<b>5.7</b>	1.0		ug/l	1	BFJ0409	10/17/22	10/20/22	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: **10/13/22 14:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		100 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		21-167		"	"	"	"	

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Broomfield CO, 80020

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH19**  
**2210218-18 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 14:01**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0409	10/17/22	10/20/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>21</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>130</b>	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>110</b>	1.0	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>88</b>	1.0	"	"	"	"	"	"	

Date Sampled: **10/13/22 14:01**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		100 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	21-167		"	"	"	"	

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Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH20**  
**2210218-19 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 14:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0409	10/17/22	10/20/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1.2</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>62</b>	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>31</b>	1.0	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>22</b>	1.0	"	"	"	"	"	"	

Date Sampled: **10/13/22 14:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		100 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.9 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **10/13/22 14:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Chloride</b>	<b>589</b>	12.0	mg/L	200	BFJ0510	10/20/22	10/20/22	EPA 300.0	
<b>Sulfate</b>	<b>848</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/13/22 14:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Total Dissolved Solids</b>	<b>2060</b>	10.0	mg/L	1	BFJ0396	10/17/22	10/17/22	SM2540C	

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6855 W. 119th Ave.  
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Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH21**  
**2210218-20 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFJ0409	10/17/22	10/20/22	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: **10/13/22 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		100 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		21-167		"	"	"	"	

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6855 W. 119th Ave.  
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Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH22**  
**2210218-21 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 14:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFJ0410	10/17/22	10/19/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>38</b>	1.0		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>330</b>	2.0		"	"	"	"	"	"	
<b>Naphthalene</b>	<b>13</b>	1.0		"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>280</b>	1.0		"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>83</b>	1.0		"	"	"	"	"	"	

Date Sampled: **10/13/22 14:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		116 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		126 %		21-167		"	"	"	"	

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

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH23**  
**2210218-22 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 12:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0410	10/17/22	10/19/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1.2</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>18</b>	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>3.8</b>	1.0	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>67</b>	1.0	"	"	"	"	"	"	

Date Sampled: **10/13/22 12:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		119 %	21-167		"	"	"	"	

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

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH24**  
**2210218-23 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 14:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BFJ0410	10/17/22	10/19/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	30	1.0	"	"	"	"	"	"	
Xylenes (total)	230	2.0	"	"	"	"	"	"	
Naphthalene	3.1	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	300	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	150	1.0	"	"	"	"	"	"	

Date Sampled: **10/13/22 14:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		126 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **10/13/22 14:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	338	12.0	mg/L	200	BFJ0510	10/20/22	10/20/22	EPA 300.0	
Sulfate	732	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/13/22 14:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	1620	10.0	mg/L	1	BFJ0396	10/17/22	10/17/22	SM2540C	

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Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH25**  
**2210218-24 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 14:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0410	10/17/22	10/19/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	1.6	1.0	"	"	"	"	"	"	
Xylenes (total)	38	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	63	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	110	1.0	"	"	"	"	"	"	

Date Sampled: **10/13/22 14:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		117 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **10/13/22 14:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	379	12.0	mg/L	200	BFJ0510	10/20/22	10/20/22	EPA 300.0	
Sulfate	870	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/13/22 14:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1770	10.0	mg/L	1	BFJ0396	10/17/22	10/17/22	SM2540C	

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Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH26**  
**2210218-25 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 12:59**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFJ0410	10/17/22	10/19/22	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: **10/13/22 12:59**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **10/13/22 12:59**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	<b>810</b>	12.0	mg/L	200	BFJ0510	10/20/22	10/20/22	EPA 300.0	
Sulfate	<b>1350</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **10/13/22 12:59**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	<b>2600</b>	10.0	mg/L	1	BFJ0396	10/17/22	10/17/22	SM2540C	

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Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**BH27**  
**2210218-26 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/13/22 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFJ0410	10/17/22	10/19/22	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: **10/13/22 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		107 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		116 %		21-167		"	"	"	"	

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Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

## 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 BFJ0409 - EPA 5030 Water MS

##### Blank (BFJ0409-BLK1)

Prepared: 10/17/22 Analyzed: 10/19/22

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	13.4		"	13.3		101	23-173			
Surrogate: Toluene-d8	13.8		"	13.3		104	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

##### LCS (BFJ0409-BS1)

Prepared: 10/17/22 Analyzed: 10/19/22

Benzene	28.5	1.0	ug/l	33.3		85.6	51-132			
Toluene	33.6	1.0	"	33.3		101	51-138			
Ethylbenzene	42.4	1.0	"	33.3		127	58-146			
m,p-Xylene	76.3	2.0	"	66.7		114	57-144			
o-Xylene	44.2	1.0	"	33.3		132	53-146			
Naphthalene	32.2	1.0	"	33.3		96.7	70-130			
1,2,4-Trimethylbenzene	39.9	1.0	"	33.3		120	70-130			
1,3,5-Trimethylbenzene	36.4	1.0	"	33.3		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.3		101	23-173			
Surrogate: Toluene-d8	13.7		"	13.3		103	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

##### Matrix Spike (BFJ0409-MS1)

Source: 2210218-10

Prepared: 10/17/22 Analyzed: 10/19/22

Benzene	28.8	1.0	ug/l	33.3	ND	86.4	34-141			
Toluene	32.9	1.0	"	33.3	ND	98.8	27-151			
Ethylbenzene	43.9	1.0	"	33.3	ND	132	29-160			
m,p-Xylene	89.0	2.0	"	66.7	ND	134	20-166			
o-Xylene	41.3	1.0	"	33.3	ND	124	33-159			
Naphthalene	29.2	1.0	"	33.3	ND	87.7	70-130			
1,2,4-Trimethylbenzene	43.4	1.0	"	33.3	ND	130	70-130			
1,3,5-Trimethylbenzene	35.4	1.0	"	33.3	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		100	23-173			
Surrogate: Toluene-d8	13.8		"	13.3		104	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.8	21-167			

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

## 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 BFJ0409 - EPA 5030 Water MS

Matrix Spike Dup (BFJ0409-MSD1)		Source: 2210218-10			Prepared: 10/17/22 Analyzed: 10/19/22					
Benzene	29.2	1.0	ug/l	33.3	ND	87.6	34-141	1.31	30	
Toluene	34.6	1.0	"	33.3	ND	104	27-151	5.09	30	
Ethylbenzene	45.5	1.0	"	33.3	ND	136	29-160	3.49	30	
m,p-Xylene	93.9	2.0	"	66.7	ND	141	20-166	5.31	30	
o-Xylene	42.6	1.0	"	33.3	ND	128	33-159	3.05	30	
Naphthalene	34.2	1.0	"	33.3	ND	103	70-130	15.6	30	
1,2,4-Trimethylbenzene	34.7	1.0	"	33.3	ND	104	70-130	22.2	30	
1,3,5-Trimethylbenzene	37.6	1.0	"	33.3	ND	113	70-130	5.81	30	
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		101	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		100	21-167			

#### Batch BFJ0410 - EPA 5030 Water MS

Blank (BFJ0410-BLK1)		Prepared: 10/17/22 Analyzed: 10/18/22								
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	12.3		"	13.3		92.5	23-173			
Surrogate: Toluene-d8	14.0		"	13.3		105	20-170			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.3	21-167			

LCS (BFJ0410-BS1)		Prepared: 10/17/22 Analyzed: 10/18/22								
Benzene	25.1	1.0	ug/l	33.3		75.3	51-132			
Toluene	36.0	1.0	"	33.3		108	51-138			
Ethylbenzene	46.0	1.0	"	33.3		138	58-146			
m,p-Xylene	92.1	2.0	"	66.7		138	57-144			
o-Xylene	43.3	1.0	"	33.3		130	53-146			
Naphthalene	23.3	1.0	"	33.3		70.0	70-130			
1,2,4-Trimethylbenzene	40.5	1.0	"	33.3		121	70-130			
1,3,5-Trimethylbenzene	41.3	1.0	"	33.3		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.3		110	23-173			
Surrogate: Toluene-d8	13.9		"	13.3		104	20-170			
Surrogate: 4-Bromofluorobenzene	14.3		"	13.3		107	21-167			

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

## 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 BFJ0410 - EPA 5030 Water MS

##### Matrix Spike (BFJ0410-MS1)

Source: 2210215-01

Prepared: 10/17/22 Analyzed: 10/18/22

Benzene	14.5	1.0	ug/l	33.3	ND	43.6	34-141			
Toluene	35.5	1.0	"	33.3	ND	106	27-151			
Ethylbenzene	45.2	1.0	"	33.3	ND	136	29-160			
m,p-Xylene	90.3	2.0	"	66.7	ND	135	20-166			
o-Xylene	43.0	1.0	"	33.3	ND	129	33-159			
Naphthalene	31.6	1.0	"	33.3	ND	94.9	70-130			
1,2,4-Trimethylbenzene	39.3	1.0	"	33.3	ND	118	70-130			
1,3,5-Trimethylbenzene	40.1	1.0	"	33.3	ND	120	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.9		"	13.3		112	23-173			
Surrogate: Toluene-d8	14.0		"	13.3		105	20-170			
Surrogate: 4-Bromofluorobenzene	14.4		"	13.3		108	21-167			

##### Matrix Spike Dup (BFJ0410-MSD1)

Source: 2210215-01

Prepared: 10/17/22 Analyzed: 10/18/22

Benzene	13.5	1.0	ug/l	33.3	ND	40.4	34-141	7.58	30	
Toluene	34.0	1.0	"	33.3	ND	102	27-151	4.17	30	
Ethylbenzene	44.1	1.0	"	33.3	ND	132	29-160	2.35	30	
m,p-Xylene	87.7	2.0	"	66.7	ND	132	20-166	2.85	30	
o-Xylene	41.7	1.0	"	33.3	ND	125	33-159	3.14	30	
Naphthalene	32.4	1.0	"	33.3	ND	97.2	70-130	2.37	30	
1,2,4-Trimethylbenzene	38.5	1.0	"	33.3	ND	115	70-130	2.13	30	
1,3,5-Trimethylbenzene	39.4	1.0	"	33.3	ND	118	70-130	1.66	30	
Surrogate: 1,2-Dichloroethane-d4	16.4		"	13.3		123	23-173			
Surrogate: Toluene-d8	14.0		"	13.3		105	20-170			
Surrogate: 4-Bromofluorobenzene	15.0		"	13.3		112	21-167			

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

### 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 BFJ0510 - General Preparation

##### Blank (BFJ0510-BLK1)

Prepared & Analyzed: 10/20/22

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

##### LCS (BFJ0510-BS1)

Prepared & Analyzed: 10/20/22

Chloride	3.25	0.0600	mg/L	3.00	108	90-110
Sulfate	15.5	0.300	"	15.0	103	90-110

##### Duplicate (BFJ0510-DUP1)

Source: 2210218-02

Prepared & Analyzed: 10/20/22

Chloride	726	12.0	mg/L	783	7.58	20
Sulfate	913	60.0	"	1000	9.26	20

##### Matrix Spike (BFJ0510-MS1)

Source: 2210218-02

Prepared & Analyzed: 10/20/22

Chloride	1270	12.0	mg/L	600	783	81.4	80-120
Sulfate	3740	60.0	"	3000	1000	91.3	80-120

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]

Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

**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 BFJ0396 - General Preparation**

**Blank (BFJ0396-BLK1)**

Prepared & Analyzed: 10/17/22

Total Dissolved Solids ND 10.0 mg/L

**Duplicate (BFJ0396-DUP1)**

Source: 2210214-01

Prepared & Analyzed: 10/17/22

Total Dissolved Solids 245 10.0 mg/L 237 3.11 20

Summit Scientific

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

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/21/22 14:44

### 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



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

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/12/22 13:28

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH28	2212069-01	Water	12/02/22 10:43	12/02/22 16:00
BH29	2212069-02	Water	12/02/22 10:43	12/02/22 16:00

Summit Scientific

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# Summit Scientific

2212069

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Noble / Tasman Geoscience

Project Manager: Jake Whritenour

Address: 6855 W. 119th Ave.

E-Mail: Jwhritenour@tasman-geo.com

City/State/Zip: Broomfield / CO / 80020

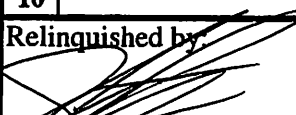

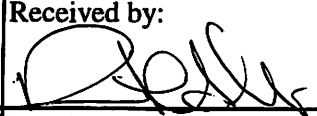
Phone: 303-487-1228

Project Name: Beebe Draw R6 26-9, 23

Sampler Name: Patrick Kline

Project Number: N/A

					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		
1	BH28	12/2/22	1043	3	3				X				X	X	X	X					
2	BH29	12/2/22	1043	3	3				X				X	X	X	X					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: 	Date/Time: 12/2/22 1400	Received by:  Tasman's Lock Box Summit North Office	Date/Time: 12/2/22 1400	<b>Turn Around Time</b> (Check) Same Day — 72 hours 24 hours — Standard <input checked="" type="checkbox"/> 48 hours — <b>Sample Integrity:</b> Temperature Upon Receipt: 67 Samples Intact: Yes No	<b>Notes:</b>
Relinquished by: Tasman's Lock Box Summit North Office	Date/Time: 12/2/22 1600	Received by: 	Date/Time: 12/2/22 1600		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2212069Client: Noble Tasma n Client Project ID: Beebe Draw RG 20-9, 23Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☒ Other ☐Temp (°C) 6.7Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	on ICE
If custody seals are present, are they intact? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<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)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

Custodian Printed Name

Date/Time

12.2.27





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

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/12/22 13:28

**BH28**  
**2212069-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **12/02/22 10:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFL0118	12/05/22	12/06/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>7.1</b>	1.0		"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>30</b>	1.0		"	"	"	"	"	"	

Date Sampled: **12/02/22 10:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	14.8	111 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.5	101 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.7	110 %		21-167		"	"	"	"	

Summit Scientific

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

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/12/22 13:28

**BH29**  
**2212069-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **12/02/22 10:43**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFL0118	12/05/22	12/06/22	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: **12/02/22 10:43**

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	99.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.2	107 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/12/22 13:28

## 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 BFL0118 - EPA 5030 Water MS

##### Blank (BFL0118-BLK1)

Prepared: 12/05/22 Analyzed: 12/07/22

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	14.6		"	13.3		110	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	14.3		"	13.3		107	21-167			

##### LCS (BFL0118-BS1)

Prepared: 12/05/22 Analyzed: 12/07/22

Benzene	42.4	1.0	ug/l	41.7		102	51-132			
Toluene	41.0	1.0	"	41.7		98.3	51-138			
Ethylbenzene	44.0	1.0	"	41.7		106	58-146			
m,p-Xylene	85.4	2.0	"	83.3		103	57-144			
o-Xylene	41.4	1.0	"	41.7		99.5	53-146			
Naphthalene	34.0	1.0	"	41.7		81.5	70-130			
1,2,4-Trimethylbenzene	44.2	1.0	"	41.7		106	70-130			
1,3,5-Trimethylbenzene	45.9	1.0	"	41.7		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3		107	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		99.1	20-170			
Surrogate: 4-Bromofluorobenzene	13.7		"	13.3		103	21-167			

##### Matrix Spike (BFL0118-MS1)

Source: 2212030-01

Prepared: 12/05/22 Analyzed: 12/07/22

Benzene	43.4	1.0	ug/l	41.7	ND	104	34-141			
Toluene	42.1	1.0	"	41.7	ND	101	27-151			
Ethylbenzene	44.7	1.0	"	41.7	ND	107	29-160			
m,p-Xylene	87.0	2.0	"	83.3	ND	104	20-166			
o-Xylene	42.3	1.0	"	41.7	ND	102	33-159			
Naphthalene	35.8	1.0	"	41.7	ND	85.8	70-130			
1,2,4-Trimethylbenzene	44.4	1.0	"	41.7	ND	106	70-130			
1,3,5-Trimethylbenzene	46.0	1.0	"	41.7	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.3		110	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		100	20-170			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	21-167			

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Tasman Geosciences  
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Broomfield CO, 80020

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]

Project Manager: Jacob Whritenour

**Reported:**  
12/12/22 13:28

## 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 BFL0118 - EPA 5030 Water MS

##### Matrix Spike Dup (BFL0118-MSD1)

Source: 2212030-01

Prepared: 12/05/22 Analyzed: 12/07/22

Benzene	42.5	1.0	ug/l	41.7	ND	102	34-141	2.12	30	
Toluene	41.5	1.0	"	41.7	ND	99.6	27-151	1.36	30	
Ethylbenzene	44.6	1.0	"	41.7	ND	107	29-160	0.202	30	
m,p-Xylene	85.8	2.0	"	83.3	ND	103	20-166	1.37	30	
o-Xylene	42.0	1.0	"	41.7	ND	101	33-159	0.807	30	
Naphthalene	34.2	1.0	"	41.7	ND	82.0	70-130	4.52	30	
1,2,4-Trimethylbenzene	44.3	1.0	"	41.7	ND	106	70-130	0.135	30	
1,3,5-Trimethylbenzene	45.8	1.0	"	41.7	ND	110	70-130	0.435	30	
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.3		108	23-173			
Surrogate: Toluene-d8	13.3		"	13.3		99.7	20-170			
Surrogate: 4-Bromofluorobenzene	13.7		"	13.3		103	21-167			

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Beebe Draw RG 26-9,23

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/12/22 13:28

### 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