

## **SECOND QUARTER 2019 SITE MONITORING REPORT**

**BEEBE DRAW RG 26-9, 23**

COGCC SPILL TRACKING # 455231  
COGCC REMEDIATION # 11925

Prepared for:



2115 117th Avenue  
Greeley, CO 80631

Prepared by:



6899 North Pecos Street, Unit C  
Denver, CO 80221

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

<b>Monitoring Well ID</b>	<b>Date</b>	<b>Top of Casing Elevation (ft. AMSL)</b>	<b>Total Depth (ft. BTOC)</b>	<b>Depth to Water (ft. BTOC)</b>	<b>Depth to LNAPL (ft. BTOC)</b>	<b>LNAPL Thickness (ft.)</b>	<b>Groundwater Elevation* (ft. AMSL)</b>
BH01	11/06/18	4774.24	NM	12.33	ND	ND	4761.91
BH01	01/10/19	4774.24	27.75	12.57	ND	ND	4761.67
BH01	04/18/19	4774.24	27.52	12.84	ND	ND	4761.40
BH02	11/06/18	4772.28	NM	11.83	ND	ND	4760.45
BH02	01/10/19	4772.28	32.65	11.88	ND	ND	4760.40
BH02	04/18/19	4772.28	32.64	12.27	ND	ND	4760.01
BH03	11/06/18	4770.72	NM	11.76	ND	ND	4758.96
BH03	01/10/19	4770.72	31.41	11.44	ND	ND	4759.28
BH03	04/18/19	4770.72	27.95	11.69	ND	ND	4759.03
BH04	11/06/18	4773.76	NM	14.11	ND	ND	4759.65
BH04	01/10/19	4773.76	29.58	14.19	ND	ND	4759.57
BH04	04/18/19	4773.76	29.14	14.38	ND	ND	4759.38
BH05	11/06/18	4770.06	NM	11.55	ND	ND	4758.51
BH05	01/10/19	4770.06	27.91	11.17	ND	ND	4758.89
BH05	04/18/19	4770.06	27.57	11.21	ND	ND	4758.85
BH06	11/06/18	4772.62	NM	14.42	ND	ND	4758.20
BH06	01/10/19	4772.62	33.62	14.33	ND	ND	4758.29
BH06	04/18/19	4772.62	33.59	14.53	ND	ND	4758.09
BH07	11/06/18	4768.79	NM	10.60	ND	ND	4758.19
BH07	01/10/19	4768.79	27.85	10.89	ND	ND	4757.90
BH07	04/18/19	4768.79	27.83	10.92	ND	ND	4757.87
BH08	11/06/18	4769.60	NM	9.68	ND	ND	4759.92
BH08	01/10/19	4769.60	21.63	9.95	ND	ND	4759.65
BH08	04/18/19	4769.60	21.12	9.68	ND	ND	4759.92
BH09	11/06/18	4771.81	NM	9.95	ND	ND	4761.86
BH09	01/10/19	4771.81	22.97	10.52	ND	ND	4761.29
BH09	04/18/19	4771.81	22.39	10.34	ND	ND	4761.47
BH10	11/06/18	4775.10	27.30	12.42	ND	ND	4762.68
BH10	01/10/19	4775.10	27.15	12.89	ND	ND	4762.21
BH10	04/18/19	4775.10	26.71	13.22	ND	ND	4761.88
BH11	11/06/18	4775.53	27.21	14.04	ND	ND	4761.49
BH11	01/10/19	4775.53	26.94	14.27	ND	ND	4761.26
BH11	04/18/19	4775.53	26.44	14.60	ND	ND	4760.93
BH12	11/06/18	4775.39	27.50	13.06	ND	ND	4762.33
BH12	01/10/19	4775.39	27.10	13.34	ND	ND	4762.05
BH12	04/18/19	4775.39	26.62	13.73	ND	ND	4761.66
BH13	11/06/18	4775.22	25.60	14.72	ND	ND	4760.50
BH13	01/10/19	4775.22	24.87	15.02	ND	ND	4760.20
BH13	04/18/19	4775.22	24.48	15.24	ND	ND	4759.98
BH14	11/06/18	4774.89	26.00	15.80	ND	ND	4759.09
BH14	01/10/19	4774.89	25.66	15.89	ND	ND	4759.00

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

<b>Monitoring Well ID</b>	<b>Date</b>	<b>Top of Casing Elevation (ft. AMSL)</b>	<b>Total Depth (ft. BTOC)</b>	<b>Depth to Water (ft. BTOC)</b>	<b>Depth to LNAPL (ft. BTOC)</b>	<b>LNAPL Thickness (ft.)</b>	<b>Groundwater Elevation* (ft. AMSL)</b>
BH14	04/18/19	4774.89	24.94	16.02	ND	ND	4758.87
BH15	01/10/19	4773.89	25.00	11.49	ND	ND	4762.40
BH15	04/18/19	4773.89	24.55	11.64	ND	ND	4762.25
BH16	01/10/19	4776.93	27.87	13.94	ND	ND	4762.99
BH16	04/18/19	4776.93	26.75	14.56	ND	ND	4762.37
BH17	01/10/19	4778.81	28.27	15.24	ND	ND	4763.57
BH17	04/18/19	4778.81	27.99	15.94	ND	ND	4762.87
BH18	01/10/19	4777.44	30.00	15.72	ND	ND	4761.72
BH18	04/18/19	4777.44	29.18	16.15	ND	ND	4761.29

Notes:

ft. = Feet

AMSL = Above mean sea level

BTOC = Below top of casing

LNAPL = Light non-aqueous phase liquid

ND = No LNAPL detected

NM = Not Measured

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

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

LNAPL relative density was estimated to be approximately 0.75

**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)
<b>COGCC Standard</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>
BH01	10/22/18	<b>210</b>	1.5	240	<b>3,300</b>
BH01	01/10/19	<b>140</b>	<1.0	380	<b>3,500</b>
BH01	04/18/19	<b>96</b>	<1.0	140	<b>1,900</b>
BH02	10/22/18	<1.0	<1.0	1.1	7.9
BH02	01/10/19	<1.0	<1.0	<1.0	<2.0
BH02	04/18/19	<1.0	<1.0	<1.0	<2.0
BH03	10/22/18	<1.0	<1.0	<1.0	<2.0
BH03	01/10/19	<1.0	<1.0	<1.0	<2.0
BH03	04/18/19	<1.0	<1.0	<1.0	<2.0
BH04	10/22/18	<b>48</b>	<1.0	150	590
BH04	01/10/19	<b>16</b>	<1.0	21	130
BH04	04/18/19	3.6	<1.0	3.5	26
BH05	10/22/18	<1.0	<1.0	<1.0	2.9
BH05	01/10/19	<1.0	<1.0	<1.0	<2.0
BH05	04/18/19	<1.0	<1.0	<1.0	<2.0
BH06	10/22/18	<1.0	<1.0	6.1	19.0
BH06	01/10/19	<1.0	<1.0	<1.0	<2.0
BH06	04/18/19	<1.0	<1.0	1.9	<2.0
BH07	10/22/18	<1.0	<1.0	<1.0	<2.0
BH07	01/10/19	<1.0	<1.0	<1.0	<2.0
BH07	04/18/19	<1.0	<1.0	<1.0	<2.0
BH08	10/22/18	<1.0	<1.0	<1.0	<2.0
BH08	01/10/19	<1.0	<1.0	<1.0	<2.0
BH08	04/18/19	<1.0	<1.0	<1.0	<2.0
BH09	10/22/18	<1.0	<1.0	16	130
BH09	01/10/19	<1.0	<1.0	<1.0	<2.0
BH09	04/18/19	<1.0	<1.0	<1.0	<2.0
BH10	11/06/18	<b>8.6</b>	<1.0	120	990
BH10	01/10/19	1.3	<1.0	1.8	16
BH10	04/18/19	1.2	<1.0	1.6	13
BH11	11/06/18	<b>9.4</b>	<1.0	23	110
BH11	01/10/19	<b>9.7</b>	<1.0	18	77
BH11	04/18/19	<b>11</b>	<1.0	23	98
BH12	11/06/18	4.2	<1.0	51	250
BH12	01/10/19	1.6	<1.0	<1.0	<2.0
BH12	04/18/19	2.5	<1.0	1.8	11
BH13	11/06/18	<1.0	<1.0	<1.0	<2.0
BH13	01/10/19	<1.0	<1.0	<1.0	<2.0
BH13	04/18/19	<1.0	<1.0	<1.0	<2.0

**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)
<b>COGCC Standard</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>
BH14	11/06/18	<1.0	<1.0	42	220
BH14	01/10/19	<1.0	<1.0	<1.0	21
BH14	04/18/19	<1.0	<1.0	<1.0	3.2
BH15	01/10/19	<1.0	<1.0	<1.0	<2.0
BH15	04/18/19	<1.0	<1.0	<1.0	<2.0
BH16	01/10/19	2.2	<1.0	22	150
BH16	04/18/19	1.4	<1.0	<1.0	5.6
BH17	01/10/19	<1.0	<1.0	<1.0	<2.0
BH17	04/18/19	<1.0	<1.0	<1.0	<2.0
BH18	01/10/19	<b>58</b>	<1.0	25	350
BH18	04/18/19	<b>2.4</b>	<1.0	<1.0	<2.0

Notes:

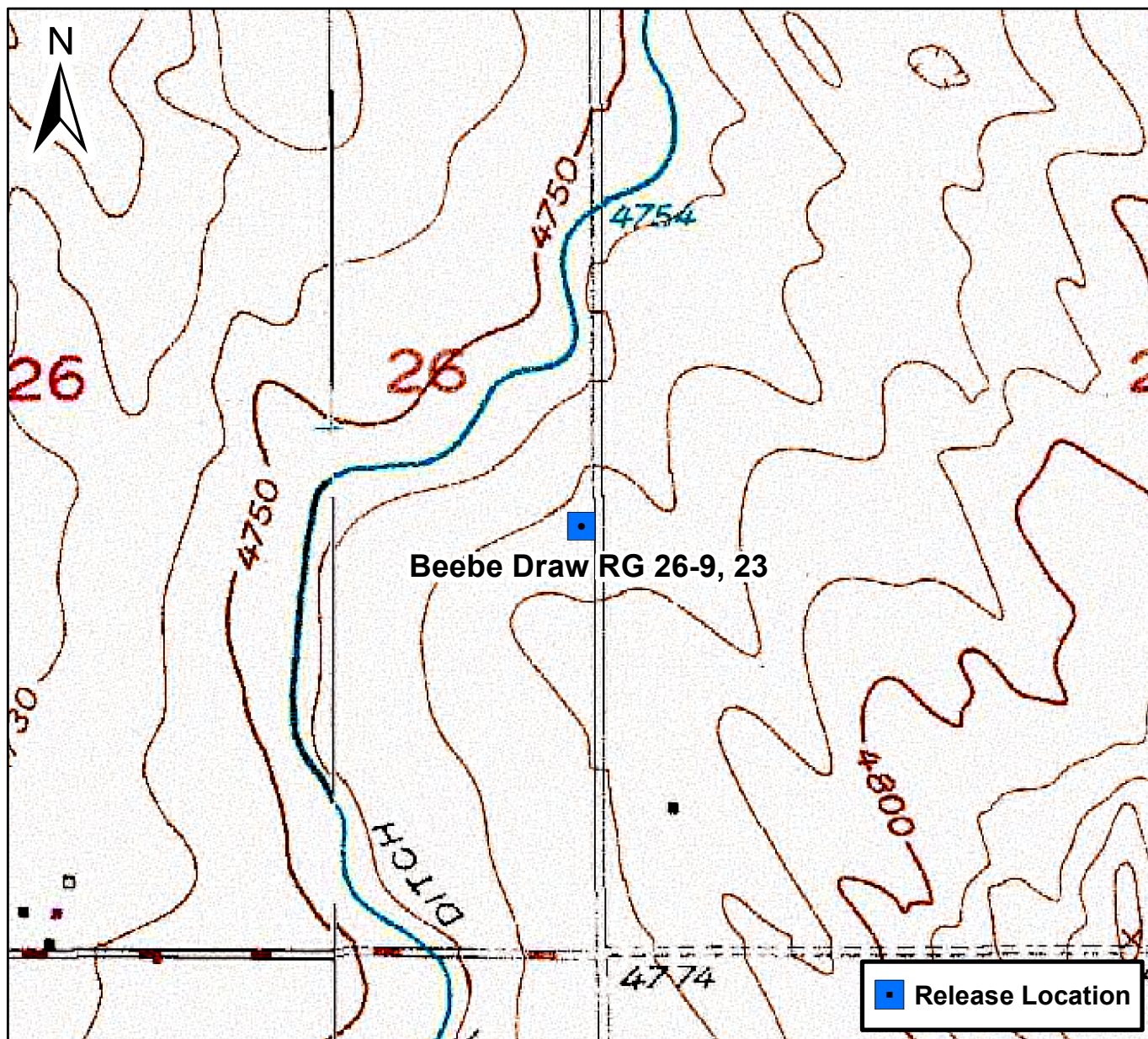
COGCC = Colorado Oil and Gas Conservation Commission

µg/L = Micrograms per liter

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

Groundwater standards referenced from COGCC Table 910-1

**Highlighted results are equal to or exceed the COGCC Table 910-1 standard**



0 750 1,500 Feet


## Figure 1

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

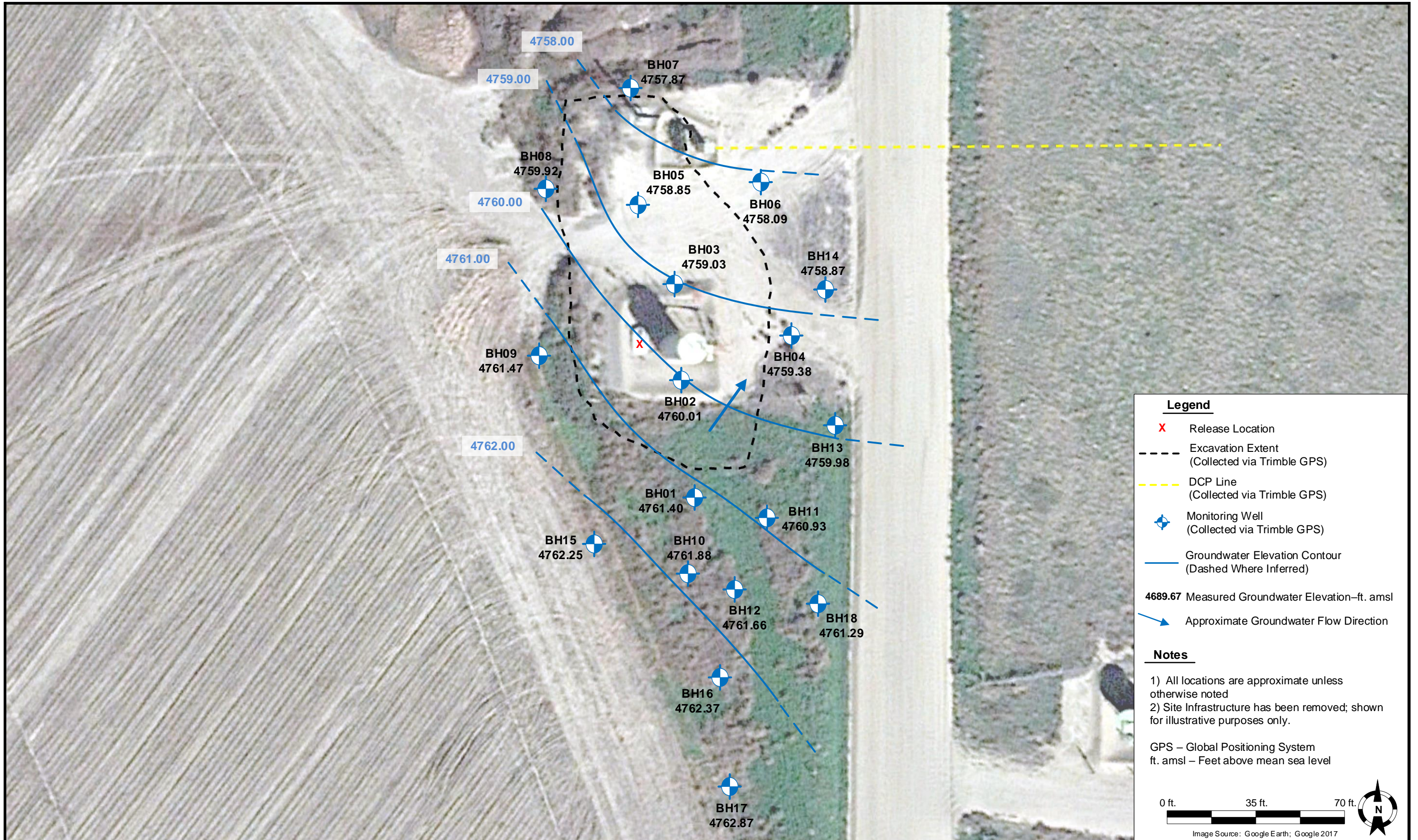




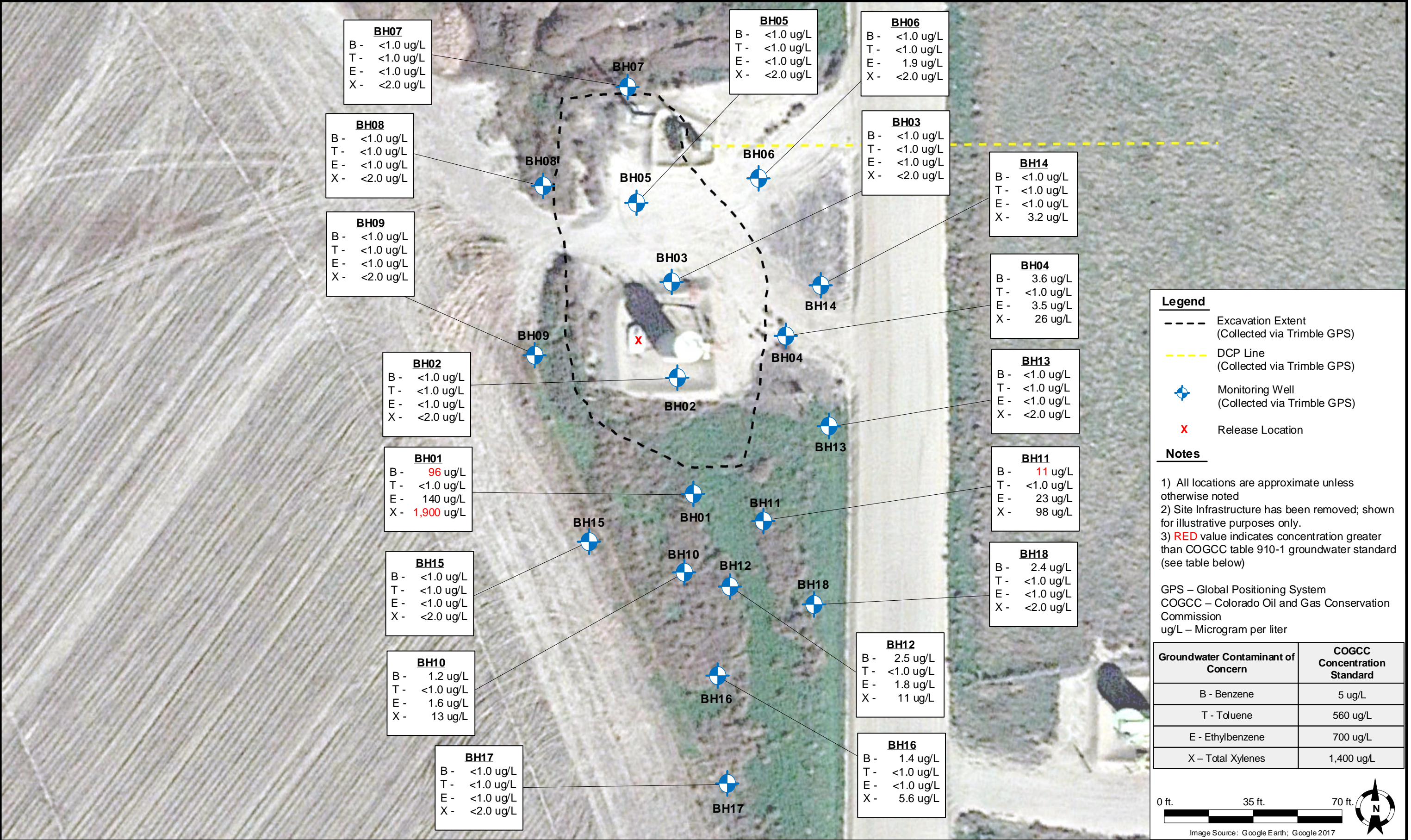


DATE:	01/25/2019	 <b>TASMAN</b> GEOSCIENCES Tasman Geosciences, Inc. 6899 Pecos Street – Unit C Denver, CO 80221	<b>Noble Energy, Inc. – DJ Basin</b> <b>Beebe Draw RG 26-9, 23</b> NESE, Section 26, Township 4 North, Range 65 West Weld County, Colorado	Site Overview	Figure 2
DESIGNED BY:	JW				
DRAWN BY:	TL				











# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 25, 2019

Brandon Bruns

Tasman Geosciences

6899 Pecos St, Unit C

Denver, CO 80221

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

Enclosed are the results of analyses for samples received by Summit Scientific on 04/18/19 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink on a light blue background. The signature is cursive and reads "Muri Premier".

Muri Premier For Ben Shrewsbury

Laboratory Manager





Tasman Geosciences  
6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
04/25/19 18:45

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	1904269-01	Water	04/18/19 12:20	04/18/19 17:30
BH02	1904269-02	Water	04/18/19 11:53	04/18/19 17:30
BH03	1904269-03	Water	04/18/19 11:41	04/18/19 17:30
BH04	1904269-04	Water	04/18/19 12:00	04/18/19 17:30
BH05	1904269-05	Water	04/18/19 10:45	04/18/19 17:30
BH06	1904269-06	Water	04/18/19 10:56	04/18/19 17:30
BH07	1904269-07	Water	04/18/19 10:37	04/18/19 17:30
BH08	1904269-08	Water	04/18/19 11:12	04/18/19 17:30
BH09	1904269-09	Water	04/18/19 11:26	04/18/19 17:30
BH10	1904269-10	Water	04/18/19 11:11	04/18/19 17:30
BH11	1904269-11	Water	04/18/19 12:11	04/18/19 17:30
BH12	1904269-12	Water	04/18/19 11:00	04/18/19 17:30
BH13	1904269-13	Water	04/18/19 11:35	04/18/19 17:30
BH14	1904269-14	Water	04/18/19 11:45	04/18/19 17:30
BH15	1904269-15	Water	04/18/19 11:25	04/18/19 17:30
BH16	1904269-16	Water	04/18/19 10:40	04/18/19 17:30
BH17	1904269-17	Water	04/18/19 10:30	04/18/19 17:30
BH18	1904269-18	Water	04/18/19 12:08	04/18/19 17:30

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Summit Scientific

1904269.1

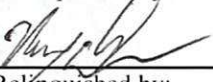
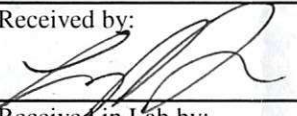
741 Corporate Circle Suite I ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 2

Client: Noble / TASMAN  
Address: 6899 N Pecos St.  
City/State/Zip: Denver / CO / 80221  
Phone: 9704816909 Fax: -  
Sampler Name: Max Dahlgren

Project Manager: Branden Bruns Invoice: Jacob Evans  
E-Mail: bbruns@tasman-geo.com  
Project Name: Beebe Driv RG 26-9, 23  
Project Number: -

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:								Special Instructions			
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR							
BH01	4/18/19	1220	3	X				X					X									
BH02		1153																				
BH03		1141																				
BH04		1200																				
BH05		1045																				
BH06		1056																				
BH07		1037																				
BH08		1112																				
BH09		1126																				
BH10		1111																				

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check)	Notes:
	4/18/19 1600	Tasman Lock Box	4/18/19 1600	Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>	
Tasman Lock Box	4-18-19 1730		4-18-19 1730	48 Hours <input type="checkbox"/>	Sample Integrity:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Temperature Upon Receipt: <u>8.4</u>	
				Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	



# Summit Scientific

1904269.2

741 Corporate Circle Suite I ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933 Fax

Page 2 of 2

Client: Noble / TASMAN  
Address: \_\_\_\_\_  
City/State/Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Sampler Name: \_\_\_\_\_

Project Manager: \_\_\_\_\_  
E-Mail: \_\_\_\_\_  
Project Name: Beebe Draw RG 26-9, 23  
Project Number: -

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:								Special Instructions	
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	8260 BTEX	8260B GBTEXN	8015 DRO	pH, EC, SAR						
BH11	4/18/19	1211	3	X				X					X								
BH12		1100																			
BH13		1135																			
BH14		1145																			
BH15		1125																			
BH16		1040																			
BH17		1030																			
BH18		1208																			
Relinquished by: <u>[Signature]</u> Date/Time: <u>4/18/19 1600</u>				Received by: <u>Tasman Lock Box</u> Date/Time: <u>4/18/19 1600</u>				Turn Around Time (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"/>												Notes:	
Relinquished by: <u>Tasman Lock Box</u> Date/Time: <u>4-18-19 1730</u>				Received by: <u>[Signature]</u> Date/Time: <u>4-18-19 1730</u>				Sample Integrity: Temperature Upon Receipt: <u>6.4</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													
Relinquished by: _____ Date/Time: _____				Received in Lab by: _____ Date/Time: _____																	

# Sample Receipt Checklist

S2 Work Order 1904269

Client: Noble / Tasman Client Project ID: Beebe Draw 126 26-9, 23

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

Matrix (check all that apply): ☐ Air ☐ Soil/Solid ☒ Water ☐ Other: \_\_\_\_\_  
(Describe)

Temp (°C)	<u>8.4</u>
-----------	------------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<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"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<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"/>	
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"/>	
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"/>	
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, H2SO4, NaOH, HNO3, ect	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>HCl</u>
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.

UP  
Custodian Printed Name or Initials

[Signature]  
Signature of Custodian

4.18.19 1835  
Date/Time





Tasman Geosciences  
6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
04/25/19 18:45

**BH01**  
**1904269-01 (Water)**

**Summit Scientific**

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

Date Sampled: **04/18/19 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Benzene</b>	<b>96</b>	1.0		ug/l	1	1904324	04/19/19	04/22/19	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>140</b>	1.0		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>1900</b>	200		"	100	"	"	"	"	

Date Sampled: **04/18/19 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		107 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		98.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %		21-167		"	"	"	"	

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  
6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
04/25/19 18:45

**BH02**  
**1904269-02 (Water)**

**Summit Scientific**

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

Date Sampled: **04/18/19 11:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1904324	04/19/19	04/22/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/18/19 11:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		113 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		84.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences  
6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
04/25/19 18:45

**BH03**  
**1904269-03 (Water)**

**Summit Scientific**

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

Date Sampled: **04/18/19 11:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1904324	04/19/19	04/22/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/18/19 11:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		93.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences  
6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
04/25/19 18:45

**BH04**  
**1904269-04 (Water)**

**Summit Scientific**

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

Date Sampled: **04/18/19 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Benzene</b>	<b>3.6</b>	1.0	ug/l	1	1904324	04/19/19	04/22/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>3.5</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>26</b>	2.0	"	"	"	"	"	"	

Date Sampled: **04/18/19 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		83.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences  
6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
04/25/19 18:45

**BH05**  
**1904269-05 (Water)**

**Summit Scientific**

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

Date Sampled: **04/18/19 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1904324	04/19/19	04/22/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/18/19 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		126 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		85.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences  
6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
04/25/19 18:45

**BH06**  
**1904269-06 (Water)**

**Summit Scientific**

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

Date Sampled: **04/18/19 10:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1904324	04/19/19	04/22/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1.9</b>	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/18/19 10:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		125 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		82.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences  
6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
04/25/19 18:45

**BH07**  
**1904269-07 (Water)**

**Summit Scientific**

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

Date Sampled: **04/18/19 10:37**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1904324	04/19/19	04/23/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/18/19 10:37**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	21-167		"	"	"	"	

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6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
04/25/19 18:45

**BH08**  
**1904269-08 (Water)**

**Summit Scientific**

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

Date Sampled: **04/18/19 11:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1904324	04/19/19	04/23/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/18/19 11:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		107 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		93.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.3 %	21-167		"	"	"	"	

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Tasman Geosciences  
6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
04/25/19 18:45

**BH09**  
**1904269-09 (Water)**

**Summit Scientific**

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

Date Sampled: **04/18/19 11:26**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1904324	04/19/19	04/23/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/18/19 11:26**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		97.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		93.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.1 %	21-167		"	"	"	"	

Summit Scientific

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6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
04/25/19 18:45

**BH10**  
**1904269-10 (Water)**

**Summit Scientific**

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

Date Sampled: **04/18/19 11:11**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Benzene</b>	<b>1.2</b>	1.0	ug/l	1	1904324	04/19/19	04/24/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1.6</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>13</b>	2.0	"	"	"	"	"	"	

Date Sampled: **04/18/19 11:11**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		83.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %	21-167		"	"	"	"	

Summit Scientific

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6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
04/25/19 18:45

**BH11**  
**1904269-11 (Water)**

**Summit Scientific**

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

Date Sampled: **04/18/19 12:11**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Benzene</b>	<b>11</b>	1.0	ug/l	1	1904324	04/19/19	04/23/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>23</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>98</b>	2.0	"	"	"	"	"	"	

Date Sampled: **04/18/19 12:11**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		114 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Summit Scientific

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Tasman Geosciences  
6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
04/25/19 18:45

**BH12**  
**1904269-12 (Water)**

**Summit Scientific**

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

Date Sampled: **04/18/19 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Benzene</b>	<b>2.5</b>	1.0	ug/l	1	1904324	04/19/19	04/24/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1.8</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>11</b>	2.0	"	"	"	"	"	"	

Date Sampled: **04/18/19 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		120 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		82.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.3 %	21-167		"	"	"	"	

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6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
04/25/19 18:45

**BH13**  
**1904269-13 (Water)**

**Summit Scientific**

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

Date Sampled: **04/18/19 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1904324	04/19/19	04/23/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/18/19 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.7 %	21-167		"	"	"	"	

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6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
04/25/19 18:45

**BH14**  
**1904269-14 (Water)**

**Summit Scientific**

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

Date Sampled: **04/18/19 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1904324	04/19/19	04/25/19	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>3.2</b>	2.0		"	"	"	"	"	"	

Date Sampled: **04/18/19 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		114 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		81.5 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %		21-167		"	"	"	"	

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Tasman Geosciences  
6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
04/25/19 18:45

**BH15**  
**1904269-15 (Water)**

**Summit Scientific**

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

Date Sampled: **04/18/19 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1904324	04/19/19	04/23/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/18/19 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %	21-167		"	"	"	"	

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6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
04/25/19 18:45

**BH16**  
**1904269-16 (Water)**

**Summit Scientific**

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

Date Sampled: **04/18/19 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Benzene</b>	<b>1.4</b>	1.0		ug/l	1	1904324	04/19/19	04/23/19	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5.6</b>	2.0		"	"	"	"	"	"	

Date Sampled: **04/18/19 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		109 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		91.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		21-167		"	"	"	"	

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6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
04/25/19 18:45

**BH17**  
**1904269-17 (Water)**

**Summit Scientific**

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

Date Sampled: **04/18/19 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1904324	04/19/19	04/23/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/18/19 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.6 %	21-167		"	"	"	"	

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6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
04/25/19 18:45

**BH18**  
**1904269-18 (Water)**

**Summit Scientific**

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

Date Sampled: **04/18/19 12:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Benzene</b>	<b>2.4</b>	1.0	ug/l	1	1904324	04/19/19	04/25/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/18/19 12:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		123 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		82.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.2 %	21-167		"	"	"	"	

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Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
04/25/19 18:45

## 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 1904324 - EPA 5030 Water MS

##### Blank (1904324-BLK1)

Prepared: 04/19/19 Analyzed: 04/22/19

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		107	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.4	20-170			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.7	21-167			

##### LCS (1904324-BS1)

Prepared: 04/19/19 Analyzed: 04/22/19

Benzene	37.2	1.0	ug/l	33.3		112	70-130			
Toluene	36.0	1.0	"	33.3		108	70-130			
Ethylbenzene	35.2	1.0	"	33.3		105	70-130			
m,p-Xylene	66.5	2.0	"	66.7		99.8	70-130			
o-Xylene	33.3	1.0	"	33.3		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.3		98.4	23-173			
Surrogate: Toluene-d8	13.8		"	13.3		104	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.2	21-167			

##### Matrix Spike (1904324-MS1)

Source: 1904269-02

Prepared: 04/19/19 Analyzed: 04/22/19

Benzene	40.4	1.0	ug/l	33.3	ND	121	70-130			
Toluene	39.5	1.0	"	33.3	ND	119	70-130			
Ethylbenzene	40.4	1.0	"	33.3	ND	121	70-130			
m,p-Xylene	77.2	2.0	"	66.7	ND	116	70-130			
o-Xylene	38.5	1.0	"	33.3	ND	116	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3		105	23-173			
Surrogate: Toluene-d8	13.3		"	13.3		99.8	20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.3	21-167			

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  
6899 Pecos St, Unit C  
Denver CO, 80221

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

Project Number: [none]  
Project Manager: Brandon Brunns

**Reported:**  
04/25/19 18:45

**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 1904324 - EPA 5030 Water MS**

Matrix Spike Dup (1904324-MSD1)		Source: 1904269-02			Prepared: 04/19/19 Analyzed: 04/22/19					
Benzene	42.7	1.0	ug/l	33.3	ND	128	70-130	5.56	30	
Toluene	41.0	1.0	"	33.3	ND	123	70-130	3.55	30	
Ethylbenzene	43.5	1.0	"	33.3	ND	130	70-130	7.42	30	
m,p-Xylene	84.2	2.0	"	66.7	ND	126	70-130	8.74	30	
o-Xylene	42.0	1.0	"	33.3	ND	126	70-130	8.67	30	
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.3		108	23-173			
Surrogate: Toluene-d8	13.0		"	13.3		97.8	20-170			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.7	21-167			

Summit Scientific

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**Reported:**  
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### 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