

THIRD QUARTER 2020 SITE MONITORING DATA

THOMPSON #3

COGCC SPILL TRACKING # 459376
COGCC REMEDIATION # 12315

Prepared for:



2115 117th Avenue
Greeley, CO 80631

Prepared by:



6855 W 119th Avenue
Broomfield, CO 80020

TABLE 1
GROUNDWATER ELEVATION DATA
NOBLE ENERGY, INC. - THOMPSON #3

Monitoring Well ID	Date	Top of Casing Elevation (ft. AMSL)	Total Depth (ft. BTOC)	Depth to Water (ft.) ⁽¹⁾	Depth to LNAPL (ft.) ⁽¹⁾	LNAPL Thickness (ft.)	Groundwater Elevation* (ft. AMSL)
BH01	09/24/19	4756.40	13.36	6.53	ND	ND	4750.14
BH01	12/04/19	4756.40	13.36	6.67	ND	ND	4750.00
BH01	03/05/20	4756.40	13.37	6.34	ND	ND	4750.33
BH01	09/04/20	4756.40	13.36	6.42	ND	ND	4750.25
BH02	09/24/19	4754.31	14.62	4.38	ND	ND	4748.18
BH02	12/04/19	4754.31	14.44	4.17	ND	ND	4748.39
BH02	03/05/20	4754.31	14.34	4.76	ND	ND	4747.80
BH02	09/04/20	4754.31	14.20	3.91	ND	ND	4748.65
BH03	09/24/19	4755.57	15.62	4.22	ND	ND	4748.39
BH03	12/04/19	4755.57	15.72	4.25	ND	ND	4748.36
BH03	03/05/20	4755.57	16.11	3.89	ND	ND	4748.72
BH03	09/04/20	4755.57	16.15	4.26	ND	ND	4748.35
BH04	09/24/19	4754.70	11.71	5.80	ND	ND	4749.25
BH04	12/04/19	4754.70	11.92	5.46	ND	ND	4749.59
BH04	03/05/20	4754.70	12.18	5.00	ND	ND	4750.05
BH04	09/04/20	4754.70	12.18	5.09	ND	ND	4749.96
BH05	09/24/19	4756.71	15.83	5.13	ND	ND	4749.56
BH05	12/04/19	4756.71	15.75	5.10	ND	ND	4749.59
BH05	03/05/20	4756.71	15.67	4.70	ND	ND	4749.99
BH05	09/04/20	4756.71	15.56	4.79	ND	ND	4749.90
BH06	09/24/19	4755.07	15.34	4.71	ND	ND	4749.14
BH06	12/04/19	4755.07	15.36	4.70	ND	ND	4749.15
BH06	03/05/20	4755.07	15.37	4.31	ND	ND	4749.54
BH06	09/04/20	4755.07	15.37	4.49	ND	ND	4749.36
BH07	09/24/19	4754.91	15.75	4.85	ND	ND	4748.57
BH07	12/04/19	4754.91	15.72	4.89	ND	ND	4748.53
BH07	03/05/20	4754.91	15.71	4.52	ND	ND	4748.90
BH07	09/04/20	4754.91	15.70	4.76	ND	ND	4748.66
BH08	09/24/19	4753.07	13.80	4.45	ND	ND	4747.53
BH08	12/04/19	4753.07	13.77	4.34	ND	ND	4747.64
BH08	03/05/20	4753.07	13.80	3.96	ND	ND	4748.02
BH08	09/04/20	4753.07	13.75	4.23	ND	ND	4747.75

Notes:

ft. = Feet

AMSL = Above mean sea level

BTOC = Below top of casing

LNAPL = Light non-aqueous phase liquid

ND = No LNAPL detected

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

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

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

LNAPL relative density was estimated to be approximately 0.75

TABLE 2
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - THOMPSON #3

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Standard		5	560	700	1,400
GW01	11/28/18	5,400	10,000	600	7,100
BH01	09/24/19	<1.0	<1.0	<1.0	<2.0
BH01	12/04/19	<1.0	<1.0	<1.0	<2.0
BH01	03/05/20	<1.0	<1.0	<1.0	<2.0
BH01	09/04/20	<1.0	<1.0	<1.0	<2.0
BH02	09/24/19	<1.0	<1.0	<1.0	<2.0
BH02	12/04/19	<1.0	<1.0	<1.0	<2.0
BH02	03/05/20	<1.0	<1.0	<1.0	<2.0
BH02	09/04/20	<1.0	<1.0	<1.0	<2.0
BH03	09/24/19	<1.0	<1.0	<1.0	<2.0
BH03	12/04/19	<1.0	<1.0	<1.0	<2.0
BH03	03/05/20	<1.0	<1.0	<1.0	<2.0
BH03	09/04/20	<1.0	<1.0	<1.0	<2.0
BH04	09/24/19	<1.0	<1.0	<1.0	<2.0
BH04	12/04/19	<1.0	<1.0	<1.0	<2.0
BH04	03/05/20	<1.0	<1.0	<1.0	<2.0
BH04	09/04/20	<1.0	<1.0	<1.0	<2.0
BH05	09/24/19	11	<1.0	3.1	7.4
BH05	12/04/19	<1.0	<1.0	<1.0	<2.0
BH05	03/05/20	10	<1.0	<1.0	<2.0
BH05	09/04/20	1.8	<1.0	<1.0	<2.0
BH06	09/24/19	<1.0	<1.0	<1.0	16
BH06	12/04/19	<1.0	<1.0	<1.0	<2.0
BH06	03/05/20	<1.0	<1.0	<1.0	<2.0
BH06	09/04/20	<1.0	<1.0	<1.0	<2.0
BH07	09/24/19	65	<1.0	<1.0	30
BH07	12/04/19	<1.0	<1.0	<1.0	<2.0
BH07	03/05/20	56	<1.0	<1.0	<2.0
BH07	09/04/20	<1.0	<1.0	<1.0	<2.0
BH08	09/24/19	<1.0	<1.0	<1.0	<2.0
BH08	12/04/19	<1.0	<1.0	<1.0	<2.0
BH08	03/05/20	<1.0	<1.0	<1.0	<2.0
BH08	09/04/20	<1.0	<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

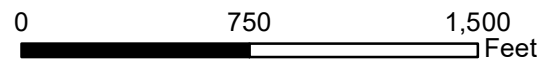
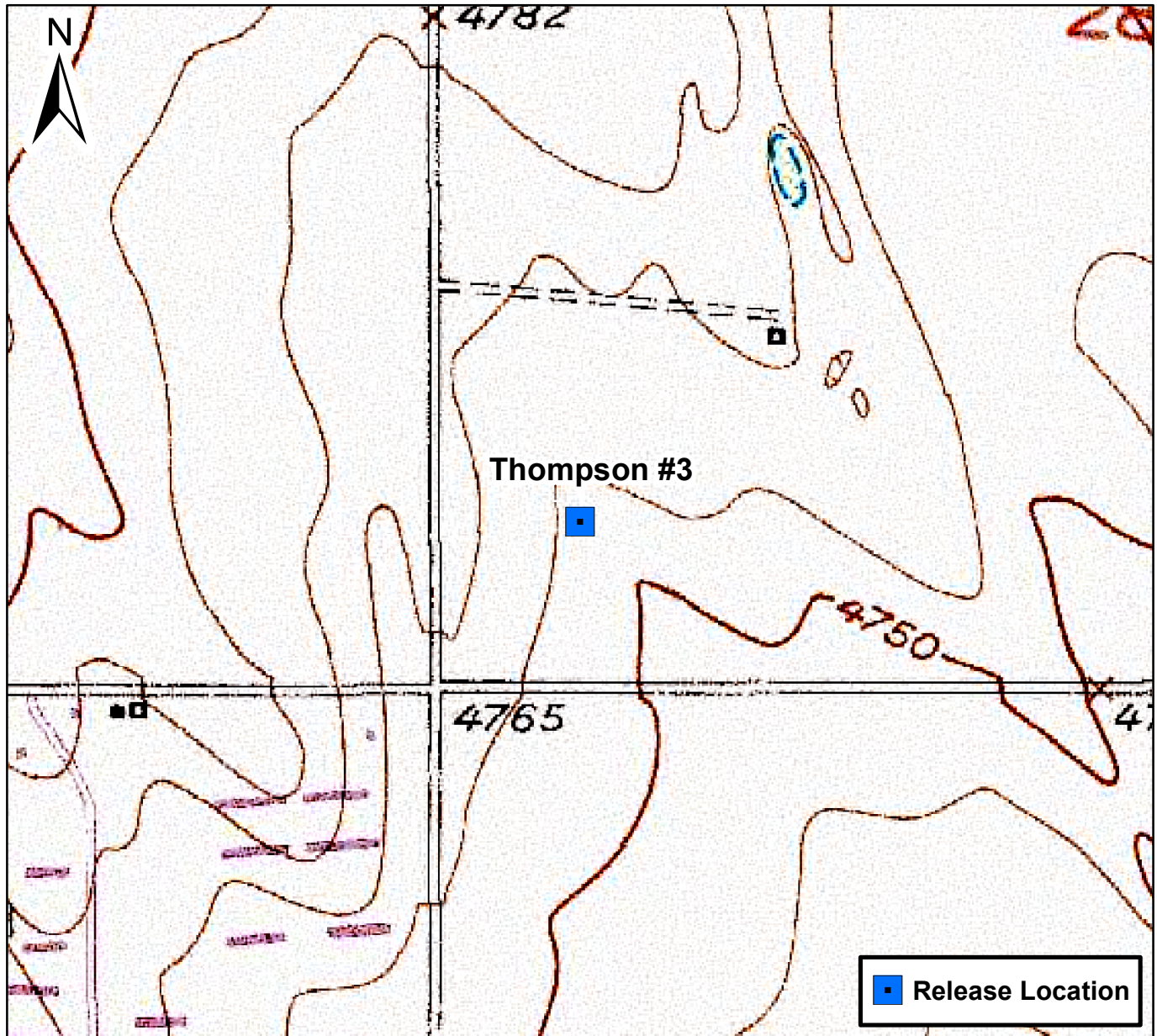
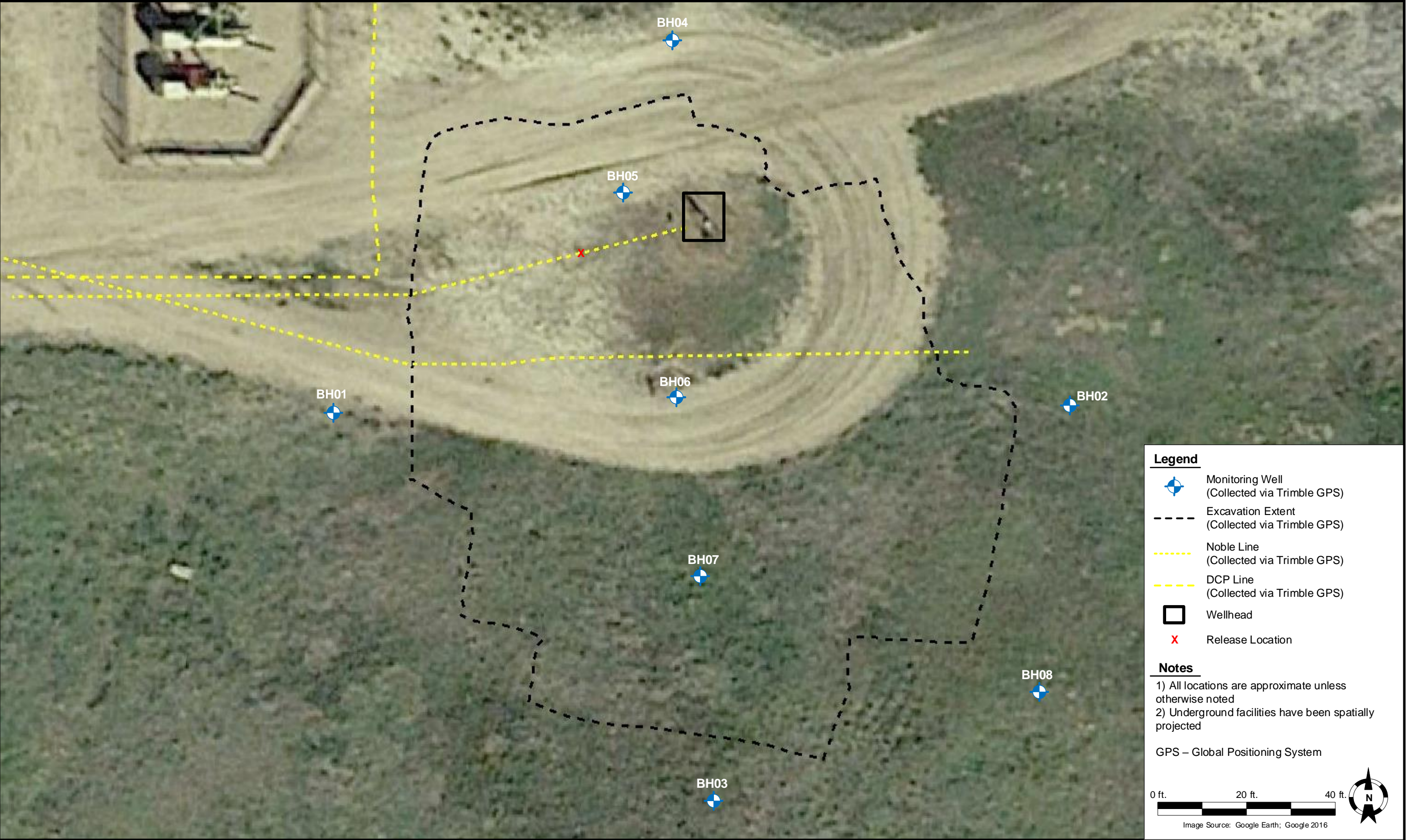


Figure 1

Site Location Map
Thompson #3
SWSW S28 T4N R64W
Weld County, Colorado





DATE:	10/13/2020
DESIGNED BY:	DA
DRAWN BY:	TC



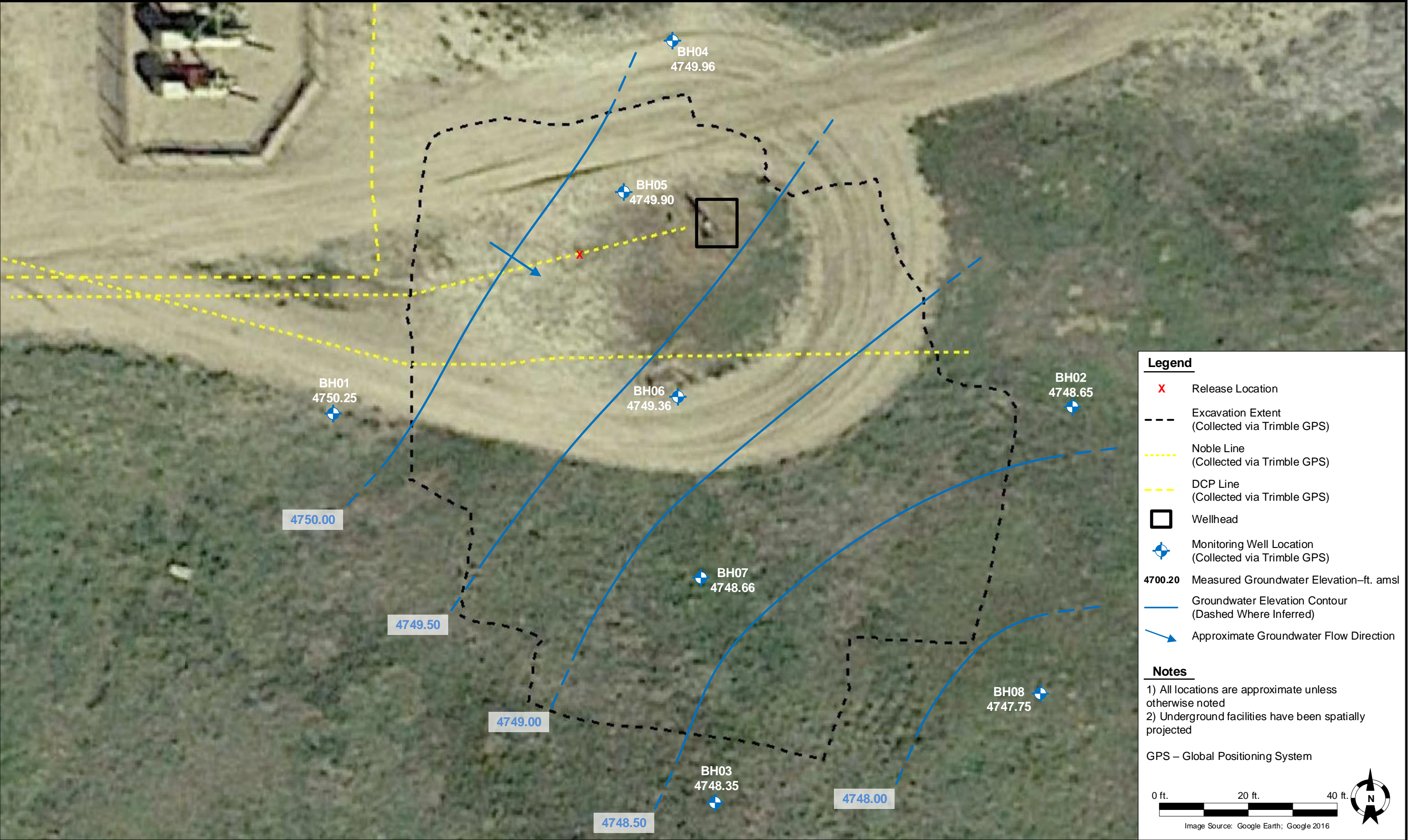
TASMAN
GEOSCIENCES

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

**Noble Energy, Inc. – DJ Basin
Thompson #3**
SWSW, Section 28, Township 4 North, Range 64 West
Weld County, Colorado

Site Overview Map

**FIGURE
2**



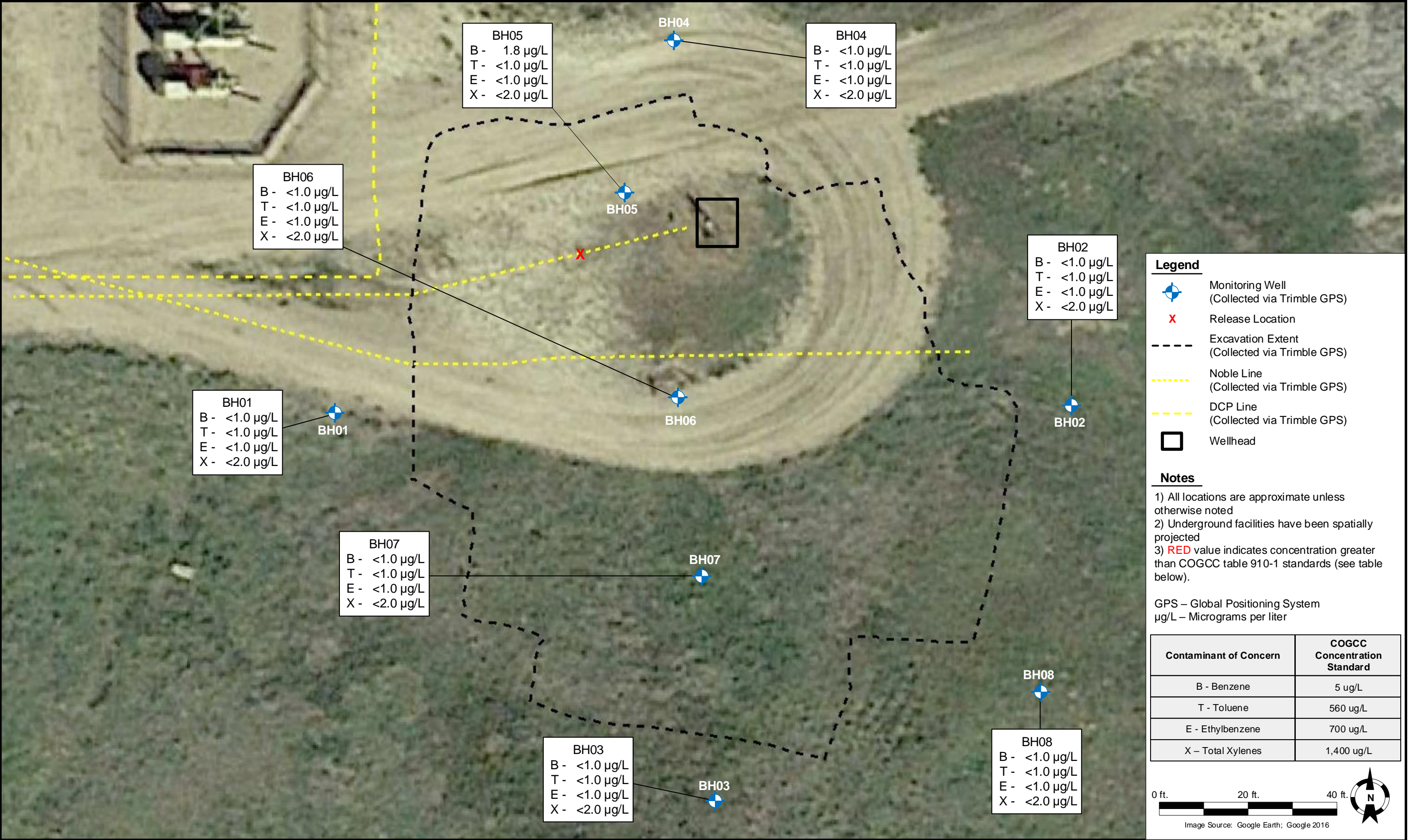


Figure 5
Thompson #3
Quarterly Benzene Concentrations



Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 14, 2020

Brandon Bruns

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Thompson #3

Work Order #2009064

Enclosed are the results of analyses for samples received by Summit Scientific on 09/04/20 16:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Muri Premier", is displayed on a light purple rectangular background.

Muri Premier For Paul Shrewsbury
President



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

Project: Noble - Thompson #3

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
09/14/20 14:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	2009064-01	Water	09/04/20 12:45	09/04/20 16:40
BH02	2009064-02	Water	09/04/20 12:47	09/04/20 16:40
BH03	2009064-03	Water	09/04/20 12:39	09/04/20 16:40
BH04	2009064-04	Water	09/04/20 12:35	09/04/20 16:40
BH05	2009064-05	Water	09/04/20 13:00	09/04/20 16:40
BH06	2009064-06	Water	09/04/20 12:54	09/04/20 16:40
BH07	2009064-07	Water	09/04/20 13:12	09/04/20 16:40
BH08	2009064-08	Water	09/04/20 13:06	09/04/20 16:40

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

2009064

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

Page 1 of 1

Client: Noble/Tasman

Address: 6855 W 119th Ave

City/State/Zip: Broomfield, CO 80020

Phone: 303-487-1228 Fax: ✓

Sampler Name: Brandon V.

Project Manager: Brandon Bruns Invoice: Jacob Evans

E-Mail: bbruns@tasman-geo.com

Project Name: Thompson #3

Project Number: ✓

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:										Special Instructions					
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)															
BH01	9/4/20	1245	3	X				X				X	BTEX													
BH02		1247																								
BH03		1239																								
BH04		1235																								
BH05		1300																								
BH06		1254																								
BH07		1312																								
BH08		1306																								

Relinquished by: <u>Brandon V.</u>	Date/Time: <u>9/4/20 1435</u>	Received by: <u>Tasman Lockbox</u>	Date/Time: <u>9/4/20 1435</u>	Turn Around Time (Check)	Notes:
				Same Day <input type="checkbox"/>	72 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>
Relinquished by: <u>Tasman Lockbox</u>	Date/Time: <u>09/04/2020 1646</u>	Received by: <u>[Signature]</u>	Date/Time: <u>09/04/2020 1646</u>		
Relinquished by: <u>Tasman Lockbox</u>	Date/Time: <u>09/04/2020 1646</u>	Received in Lab by: <u>[Signature]</u>	Date/Time: <u>09/04/2020 1646</u>	Sample Integrity: <u>3.2</u>	
				Temperature Upon Receipt: <u>3.2</u>	
				Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Sample Receipt Checklist

S2 Work Order _____

Client: Noble/Tasman Client Project ID: Thompson #3

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

☐ ☒ ☐ ☐ ☐

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

Temp (°C)	3.2
-----------	-----

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? 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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCL
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Custodian Printed Name or Initials

Signature of Custodian

Date/Time

09/04/2020



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

Project: Noble - Thompson #3

Project Number: [none]

Project Manager: Brandon Bruns

Reported:
09/14/20 14:16

BH01
2009064-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/04/20 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2009076	09/08/20	09/09/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/04/20 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		58.9 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %		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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Thompson #3

Project Number: [none]

Project Manager: Brandon Bruns

Reported:
09/14/20 14:16

BH02
2009064-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/04/20 12:47**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	2009076	09/08/20	09/09/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **09/04/20 12:47**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		61.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Thompson #3

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
09/14/20 14:16

BH03
2009064-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/04/20 12:39**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	2009076	09/08/20	09/09/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **09/04/20 12:39**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		59.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.0 %	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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Thompson #3

Project Number: [none]

Project Manager: Brandon Bruns

Reported:

09/14/20 14:16

BH04

2009064-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/04/20 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	2009076	09/08/20	09/09/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **09/04/20 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		62.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		111 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.4 %	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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Thompson #3

Project Number: [none]

Project Manager: Brandon Bruns

Reported:
09/14/20 14:16

BH05
2009064-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/04/20 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	1.8	1.0		ug/l	1	2009076	09/08/20	09/09/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **09/04/20 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		59.6 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.3 %		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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Thompson #3

Project Number: [none]

Project Manager: Brandon Bruns

Reported:
09/14/20 14:16

BH06

2009064-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/04/20 12:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	2009076	09/08/20	09/09/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **09/04/20 12:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		59.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.3 %	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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Thompson #3

Project Number: [none]

Project Manager: Brandon Bruns

Reported:
09/14/20 14:16

BH07
2009064-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/04/20 13:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	2009076	09/08/20	09/09/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **09/04/20 13:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		65.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Thompson #3

Project Number: [none]

Project Manager: Brandon Bruns

Reported:
09/14/20 14:16

BH08

2009064-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/04/20 13:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	2009076	09/08/20	09/09/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **09/04/20 13:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		59.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Thompson #3

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
09/14/20 14:16

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 2009076 - EPA 5030 Water MS

Blank (2009076-BLK1)

Prepared & Analyzed: 09/08/20

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	8.09		"	13.3		60.7	23-173			
Surrogate: Toluene-d8	14.8		"	13.3		111	20-170			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.5	21-167			

LCS (2009076-BS1)

Prepared & Analyzed: 09/08/20

Benzene	34.2	1.0	ug/l	33.3		103	51-132			
Toluene	34.7	1.0	"	33.3		104	51-138			
Ethylbenzene	39.4	1.0	"	33.3		118	58-146			
m,p-Xylene	81.6	2.0	"	66.7		122	57-144			
o-Xylene	39.5	1.0	"	33.3		118	53-146			
Surrogate: 1,2-Dichloroethane-d4	9.35		"	13.3		70.1	23-173			
Surrogate: Toluene-d8	13.8		"	13.3		103	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.5	21-167			

Matrix Spike (2009076-MS1)

Source: 2009022-01

Prepared & Analyzed: 09/08/20

Benzene	32.1	1.0	ug/l	33.3	ND	96.2	34-141			
Toluene	29.8	1.0	"	33.3	ND	89.3	27-151			
Ethylbenzene	35.5	1.0	"	33.3	ND	106	29-160			
m,p-Xylene	71.8	2.0	"	66.7	ND	108	20-166			
o-Xylene	35.1	1.0	"	33.3	ND	105	33-159			
Surrogate: 1,2-Dichloroethane-d4	9.90		"	13.3		74.3	23-173			
Surrogate: Toluene-d8	12.7		"	13.3		95.3	20-170			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.0	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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Thompson #3

Project Number: [none]

Project Manager: Brandon Brunns

Reported:

09/14/20 14:16

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 2009076 - EPA 5030 Water MS

Matrix Spike Dup (2009076-MSD1)

Source: 2009022-01

Prepared & Analyzed: 09/08/20

Benzene	25.6	1.0	ug/l	33.3	ND	77.0	34-141	22.3	30	
Toluene	26.0	1.0	"	33.3	ND	78.0	27-151	13.6	30	
Ethylbenzene	28.4	1.0	"	33.3	ND	85.3	29-160	22.1	30	
m,p-Xylene	58.5	2.0	"	66.7	ND	87.8	20-166	20.4	30	
o-Xylene	29.0	1.0	"	33.3	ND	87.1	33-159	18.8	30	
Surrogate: 1,2-Dichloroethane-d4	12.5		"	13.3		93.6	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	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
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Thompson #3

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
09/14/20 14:16

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