



March 26, 2018

Mr. Jacob Evans
Noble Energy, Inc.
1600 Broadway
Denver, CO 80202

Subject: **First Quarter 2018 Site Monitoring and Remediation Report**
Plugged and Abandoned FRI 2-18 Tank Battery and Wellhead Location
API # 05-001-08259
Remediation Project # 8440
Adams County, Colorado

Dear Mr. Evans:

Please find the enclosed copy of the above-referenced First Quarter 2018 Site Monitoring and Remediation Report for the Plugged and Abandoned FRI 2-18 Tank Battery and Wellhead Location in Adams County, Colorado. The enclosed report describes groundwater sampling and remediation system operation and maintenance (O&M) activities conducted during the first quarter 2018, in accordance with the previously submitted Form 27 (COGCC document # 2148980). Please contact me at (720) 431-1190 if you require additional information.

Tasman appreciates the opportunity to provide this service.

Sincerely,
Tasman Geosciences, Inc.

A handwritten signature in blue ink that reads "Brandon Bruns".

Brandon Bruns
Project Manager

Enclosure: First Quarter 2018 Site Monitoring & Remediation Report

PLUGGED & ABANDONED FRI 2-18 TANK BATTERY & WELLHEAD LOCATION

FIRST QUARTER 2018 SITE MONITORING AND REMEDIATION REPORT

March 23, 2018



PREPARED ON BEHALF OF

Noble Energy Inc.
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PREPARED BY

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1.0 INTRODUCTION

This Site Monitoring and Remediation Report (Report) presents the results of groundwater sampling and light non-aqueous phase liquid (LNAPL) recovery activities performed at the Plugged and Abandoned FRI 2-18 Tank Battery and Wellhead Location (Site). Field activities detailed in this report were performed on behalf of Noble Energy, Inc. (Noble), pursuant to Colorado Oil and Gas Conservation Commission (COGCC) guidance.

Field activities described in this Report were conducted by Tasman Geosciences, Inc. (Tasman) to further evaluate groundwater flow characteristics and groundwater quality at the Site. The data collected were used to maintain and optimize remediation system operations, develop the analytical summary tables, groundwater and LNAPL elevation maps, and chemical concentration maps presented herein.

1.1 Site Background

The Site is located in Section 18, Township 1 South, Range 67 West, of the 6th Principal Meridian, on 144th Avenue, in the town of Thornton in Adams County, Colorado (see Figure 1). The Site surrounds the former FRI 2-18 wellhead and tank battery and is approximately 950 feet (ft.) north of 144th Avenue and 1,200 ft. west of Holly Street. The approximate coordinates of the Site are 39.960732°, -104.926776°.

On November 4, 2013 Noble was informed of the suspected release. Subsequently, Noble filed a Form 19 Spill/Release Report (Form 19) with the COGCC for the incident. On November 13, 2013 the Form 19 was received by the COGCC and the incident was designated Spill/Release Tracking Number 2147193.

Based on procedures established via the Form 19 process, Noble conducted subsurface Site assessment activities from October 2013 through April 2014 in order to delineate the extent of petroleum hydrocarbon impacts at the Site. A total of 49 monitoring wells were installed at the Site throughout the assessment phase. The locations of these monitoring wells are presented in Figure 2. Laboratory analytical data for soil samples collected during the monitoring well installation are reported in the 4Q2017 Table 1 and total petroleum hydrocarbon (TPH) concentrations are reported in the 4Q2017 Figure 5. In addition to groundwater and soil assessment activities, Noble initiated interim corrective measures to reduce the presence of LNAPL in the central region of the Site.

On May 9, 2014 Noble submitted a Form 27 Site Assessment Report (Document Number 2148980) for COGCC review. Subsequently, COGCC approved the Form 27, closed out Spill/Release Tracking Number 2147193, and issued Remediation Number 8440 for continued corrective action, monitoring, and reporting at the Site.

1.2 Site Topography, Geology, and Hydrogeology

The Site is positioned at approximately 5,246 ft. above mean sea level (AMSL). Surface topography slopes gradually to the north across the Site with minor depressions evident across the ground surface. Regional topography slopes to the north and northwest from a high point approximately 2,000 ft. south of 144th Avenue. Surface drainage features are evident to the north and east of the Site and follow a general northeast – southwest trend.

Site assessment borings indicate that the subsurface geology immediately beneath the Site is composed of unconsolidated alluvial sediments and evaporite deposits overlying consolidated sedimentary rock. The upper unconsolidated unit is observed from ground surface to approximately 35 ft. below ground surface (bgs) and consists of interbedded clays (CL), fine, medium, and coarse grain sands (SC, SP, SW), and zones of accreted caliche. The alluvial and precipitated sediments are underlain by interbedded sandstone and claystone encountered at approximately 35 ft. bgs. The depth of the competent bedrock surface observed in the majority of the borings varies from approximately 25 to 40 ft. bgs across the Site and is generally characterized by a poorly cemented fractured sandstone layer approximately 10 to 15 ft. thick underlain by claystone. Claystone dominates the consolidated interval in the southeastern and eastern portions of the Site, while sandstone is the predominant consolidated lithology noted across the central and western regions. Thickening of the sandstone layer appears to follow a north - south trend across the area of concern. Two wells, SB06 and SB17, did not encounter bedrock. Boring logs for monitoring wells SB01 through SB42 are included in Attachments A and B of the Form 27 Site Assessment Report (Document Number 2148980) submitted to the COGCC on May 9, 2014.

The groundwater table is generally encountered between 40 and 50 ft. bgs within the consolidated sedimentary rock units. Groundwater flow appears preferential to the poorly cemented sandstone layer and appears to be preferentially bound to the central and western portions of the Site. This preferential flow and accumulation is further evidenced by dry and slow re-charging wells in the southeast and eastern portions of the Site (predominated by the lower permeability claystone lithology). Well yields across the majority of the Site are relatively low, consistent with a consolidated bedrock aquifer; however, higher flow rates have been observed, suggesting secondary flow pathways and geologic structures may be contributing factors in groundwater transport.

2.0 GROUNDWATER SAMPLING ACTIVITIES

This section summarizes the groundwater sampling activities that were performed and the protocols followed during groundwater monitoring activities conducted by Tasman during the first quarter 2018. Sampling activities included measurement of groundwater/LNAPL depths, measurement of groundwater quality parameters, and collection of groundwater samples from Site monitoring wells.

2.1 Groundwater Sample Locations

Site-wide groundwater monitoring and associated events were conducted between February 23 and 26, 2018. The following sections discuss the field and laboratory analytical procedures followed during this event.

- On February 16, 2018, the Site remediation system (System) was shut off to allow Site subsurface conditions to equilibrate prior to conducting the groundwater sampling event.
- On February 16, 2018, all product recovery pumps were removed from recovery wells to allow for LNAPL gauging to be completed in the product recovery wells during the groundwater sampling event.
- On February 23, 2018, a Site-wide fluid level gauging event was conducted. Groundwater and LNAPL measurements were collected from all Site monitoring and product recovery wells.
- On February 23, 2018, HydraSleeve groundwater sampling devices were deployed in all Site monitoring wells exhibiting the required conditions described in Section 2.3. Wells receiving HydraSleeves included:

• SB03	• SB04	• SB06	• SB07
• SB08	• SB10	• SB11	• SB12
• SB13	• SB14	• SB15	• SB17
• SB19	• SB20	• SB22R	• SB25R
• SB27R	• SB28R	• SB36	• SB38
• SB39			

- On February 26, 2018, the HydraSleeves were retrieved from the monitoring wells listed above and groundwater samples were collected and submitted for laboratory analysis. At the same time, field groundwater quality parameters were gauged in-situ at the well locations listed above except SB28R. Monitoring Well SB28R contained an obstruction that allowed a HydraSleeve past, however it blocked the deployment of the In-Situ Smart Troll probe.

Historic groundwater monitoring well locations notes of concern:

- Throughout the Site assessment, monitoring wells SB16, SB22, SB24, SB25, SB27, and SB28 have failed to produce sufficient water for well development or sampling activities. Review of the boring logs shows that construction of these wells were either too shallow or completed in an area of low permeability. These wells were abandoned in June 2015 following review of all previous Site field and laboratory analytical data.

- Monitoring well SB20R was abandoned in June 2015, following review of all previous Site field and laboratory analytical data. In prior sampling events, SB20R was not sampled due to the immediate proximity of SB20.
- Monitoring wells SB01 and SB02 were consistently found to contain groundwater levels above the perforated interval of the well casing. These wells were abandoned in June 2015, following review all previous Site field and laboratory analytical data.
- Monitoring well SB16 has failed to produce sufficient water to sample since its installation. In January 2014 monitoring well SB16 was abandoned and monitoring well SB16R was drilled as a replacement. However, the casing of SB16R was damaged and the well could not be gauged or sampled. In April 2017 monitoring well SB16R was abandoned and monitoring well SB16R2 was installed. Monitoring well SB23 also failed to produce sufficient water for sampling and was abandoned in April 2017. Monitoring well SB23R was drilled as a replacement in April 2017.
- The COGCC approved removal of periphery wells (SB18, SB24R, SB26, SB29, SB33, SB34, SB35, SB40, SB41, and SB42) from the monitoring network on April 4, 2017.

2.2 Groundwater and LNAPL Gauging

Groundwater levels are measured (i.e. gauged) in order to evaluate hydraulic characteristics and to provide information regarding seasonal and annual fluctuations in groundwater elevations at the Site. Groundwater and LNAPL levels were measured on the north side of the well casing to the nearest 0.01-foot using a float driven oil-water interface probe (IP). Groundwater and LNAPL level data were subsequently converted to elevations (ft. AMSL) by subtracting the measured depth from the well's top-of-casing (TOC) elevation survey datum. Groundwater elevations for wells exhibiting detectable LNAPL levels were corrected for the effects of LNAPL depression of the potentiometric surface. These groundwater elevations were corrected using the following formula:

$$\begin{aligned}
 & (\text{Top of Casing Elevation} - \text{Measured Depth to Water}) \\
 & + (\text{LNAPL Thickness in Well} \times \text{LNAPL Relative Density}) \\
 & = \text{Corrected Groundwater Elevation}
 \end{aligned}$$

An LNAPL relative density of 0.75 was used, based on petrophysical quantitation conducted during the initial Site assessment.

Groundwater quality measurements were collected in the field following groundwater sample collection using a Smart Troll multi-parameter instrument with a 100 ft. tethered probe to allow for in-situ measurements. Field measurements for temperature, electrical conductivity (EC), pH, oxidation reduction potential (ORP), and dissolved oxygen (DO) were measured in-situ at monitoring wells with sufficient groundwater column. These measurements were not collected from monitoring locations exhibiting detectable levels of LNAPL.

2.3 Groundwater Sample Collection

Prior to collecting groundwater laboratory analytical samples, groundwater and LNAPL levels were measured at each of the Site monitoring wells, as previously described. The presence of LNAPL was evaluated and wells exhibiting detectable levels of LNAPL were removed from the laboratory analytical sample collection list.

Groundwater monitoring wells were sampled using individual, disposable, HydraSleeve sample collection devices. Evaluation of the water column height within the well was performed prior to sampler placement in order to maintain sample consistency from well to well and between subsequent sample collection events. HydraSleeves were deployed in a manner limiting sample collection to the top four ft. of the water column by restricting the length of the HydraSleeve retrieval tether to no more than four ft. longer than the measured depth to water:

- Samples collected from monitoring wells with a water column height greater than or equal to seven ft. were sampled using a standard 2-inch HydraSleeve (2.5 inches [W] x 30 inches [L]) with five ounce (oz.) (2.5 inches [L]) bottom weights attached via a 2-inch stainless steel clip.
- Samples collected from monitoring wells with a water column height less than seven ft. and greater than two ft. were sampled using a standard 2-inch HydraSleeve (2.5 inches [W] x 30 inches [L]) with five oz. (2.5 inches [L]) bottom weights attached via a 2-inch stainless steel clip. Due to the reduced water column height, HydraSleeves were deployed with a 16 oz. top weight, intended to keep the valve inlet positioned within four ft. of the phreatic surface.
- Monitoring wells with a water column height less than 2 ft. were not sampled as per the Site standard operating procedures. Groundwater present within the lower portion of the screened interval is more susceptible to a “skin function” across the bottom of the drilling zone. The aquifer volume is consistently insufficient to effectively develop the wells, seat the well gravel, and remove the skin function to the same level as the other well screens. This causes the water quality to be more easily affected by solids in the water sample and inconsistent with wells that contain greater water column thickness.

Retrieval of the HydraSleeves and collection of the laboratory samples was performed no earlier than 48 hours and no later than 96 hours subsequent to HydraSleeve deployment. Clean sample containers (40-milliliter [ml] volatile organic analysis [VOA] vials) supplied by the analytical laboratory were used to contain liquid for subsequent analyses. VOA vials were overfilled and capped to reduce the potential for any headspace and to prevent the loss of volatile analytes. Sample bottles were then labeled with corresponding date, time and well identification, and placed in an ice-filled cooler and maintained at approximately 4 degrees Celsius ($^{\circ}\text{C}$) for transportation. The groundwater samples were packed and delivered for analysis under chain-of-custody procedures to the contract laboratory.

Groundwater samples were submitted to Summit Scientific Laboratory in Golden, Colorado for

analysis of benzene, toluene, ethylbenzene, and total xylenes (collectively referred to as BTEX) using United States Environmental Protection Agency (USEPA) Method 8260B.

Groundwater sample quality assurance/quality control (QA/QC) procedures were performed via a two-step process. Laboratory QA/QC was performed in accordance with the laboratory's standard internal QA/QC program. Following receipt of laboratory analytical data reports, Tasman performed an internal QA/QC evaluation.

3.0 GROUNDWATER SAMPLING RESULTS

This section presents the results of the first quarter 2018 groundwater sampling activities described above.

3.1 Fluid Level Measurements

Fluid elevation data generated from the Site-wide groundwater and LNAPL gauging event conducted on February 23, 2018 was processed and converted to piezometric elevation in ft. AMSL. The data collected from this event were then used for Site hydrogeologic evaluation purposes. This evaluation was particularly focused on delineation of the LNAPL plume present across the central region of the Site as well as the flow characteristics of groundwater and dissolved phase contaminant migration. Groundwater elevations and LNAPL thicknesses are presented in Table 1 and LNAPL thicknesses are illustrated in Figure 3. Figure 3 also illustrates LNAPL thickness across the Site for the previous two quarters.

LNAPL was detected on February 23, 2018 in eight Site monitoring wells (SB05, SB09, SB16R2, SB21, SB23R, SB30, SB31 and SB37). Product thickness in these wells ranged from 0.20 ft. at SB16R2 to 4.33 ft. at SB30. LNAPL was also detected in 20 product recovery wells (PR01, PR03, PR05 through PR19, and PR24 through PR26), at thicknesses ranging from 0.02 feet in PR12 to 4.33 feet in SB30. LNAPL thickness measured during the first quarter 2018 sampling event across the Site is illustrated in the bottom third of Figure 3.

During the February 23, 2018 gauging event, groundwater elevations ranged from a low of 5,196.67 ft. AMSL in PR13 to a high of 5,214.48 ft. AMSL in SB40. Hydraulic analysis of the groundwater elevation data generated for the Site was used to create a groundwater potentiometric surface contour map. These contours show hydraulic gradient components flowing to the southwest. The average hydraulic gradient across the Site was calculated at approximately 0.02 feet per foot between SB40 and SB34. Groundwater potentiometric surface contours are illustrated in Figure 4. Monitoring wells marked as abandoned on Figure 2 as well as those containing less than 0.5 ft. of groundwater column were not used for contouring purposes.

3.2 Groundwater Quality Parameter Measurements

Field groundwater quality parameters (temperature, EC, pH, ORP, and DO) were measured in-situ at the Site on February 26, 2018 following groundwater sample collection. A summary of

field groundwater quality parameter measurements collected by Tasman is presented below and in Table 2:

- Groundwater temperature measurements at the Site ranged from 11.18 degrees Celsius (°C) at SB25R to 12.56 °C at SB22R, with an average temperature of 11.74 °C.
- Groundwater EC measurements at the Site ranged from 2.28 millisiemens per centimeter (mS/cm) at SB22R to 9.95 mS/cm at SB10, with an average EC of 3.94 mS/cm.
- Groundwater pH measurements at the Site ranged from 6.74 at SB10 to 7.56 at SB12, with an average pH of 7.20.
- Groundwater ORP measurements at the Site ranged from -91.50 millivolts (mV) at SB10 to 55.00 mV at SB04, with an average ORP of 0.30 mV.
- Groundwater DO measurements at the Site ranged from 0.03 milligrams per liter (mg/L) at SB22R to 4.90 mg/L at SB03, with an average DO of 0.62 mg/L.

3.3 Laboratory Analytical Results

Groundwater laboratory analytical data is presented in Table 3. The laboratory analytical report is provided in Attachment A. A summary of the groundwater laboratory analytical data collected by Tasman is presented below:

- Benzene was detected above the COGCC Table 910-1 standard of 5 micrograms per liter ($\mu\text{g}/\text{L}$) in five (5) of the 21 Site monitoring wells sampled. Benzene concentrations associated with these five monitoring wells ranged from 18 $\mu\text{g}/\text{L}$ in SB22R to 6,100 $\mu\text{g}/\text{L}$ in SB08. Benzene analytical results and isoconcentration contours indicating the area where benzene concentrations exceed the COGCC regulatory standard are illustrated in Figure 5.
- Toluene was detected above the COGCC Table 910-1 standard of 560 $\mu\text{g}/\text{L}$ in one (1) of the 21 Site monitoring wells sampled. The toluene concentration associated with SB08 is 630 $\mu\text{g}/\text{L}$ and 680 $\mu\text{g}/\text{L}$ in the field duplicate sample from the same well.
- Ethylbenzene was not detected above the COGCC Table 910-1 standard of 700 $\mu\text{g}/\text{L}$ in any of the 21 Site monitoring wells sampled.
- Total xylenes were detected above the COGCC Table 910-1 standard of 1,400 $\mu\text{g}/\text{L}$ in three (3) of the 21 Site monitoring wells sampled. The total xylenes concentration associated with these three wells ranged from 1,600 $\mu\text{g}/\text{L}$ in SB07 to 9,100 $\mu\text{g}/\text{L}$ in SB08.

4.0 INTERIM CORRECTIVE ACTION

This section summarizes remediation activities conducted at the Site from November, 2013 to May, 2015. Concurrently, a full-scale remediation system was designed and constructed. Interim corrective actions were suspended between June 2015 and February 24, 2016 due to construction activities and final completion of the full-scale system.

4.1 LNAPL Recovery

Four Magnum Spill Buster automated LNAPL pumping systems were installed at the Site between November, 2013 and May, 2015. The pumps were specifically designed to remove LNAPL from the water table and may be deployed in 2" or larger diameter wells. The unit's "auto-seeking sensor" allows the pump intake to automatically follow the elevation of the oil/water interface as it fluctuates in the well.

Due to the lack of electrical service at the Site, Spill Buster pumps were operated through the use of solar power. Recovered LNAPL was pumped into 250 gallon polyethylene tanks dedicated to each pumping unit. Liquid levels within the tanks were monitored independently and automatically cease the system operation before an overflow level is reached. The tanks were all secondarily contained within high-density polyethylene containment units. Extraction and disposal of the recovered LNAPL occurred on an as-needed basis, determined by field personnel. Operation and maintenance of the LNAPL recovery operation occurred on a semi-weekly schedule.

Spill Buster systems were removed from the Site in May, 2015. A total of approximately 1,960 gallons of LNAPL were recovered between November, 2013 and May, 2015.

5.0 REMEDIATION SYSTEM OPERATION

This section summarizes data and system parameters collected from the remediation system that is currently in operation at the Site.

5.1 LNAPL Recovery

Construction activities were completed on the Site remediation system (System) on February 22, 2016. Startup and shakedown procedures were completed on the System on February 23, 2016 and all components of the system were tested, alarm conditions were activated, and system interlocks were checked. System motors and moving components were checked for correct and safe operation and remote alarm notification was verified. The LNAPL recovery component of the system was put into operation on February 24, 2016. From February 24 through February 26, 2016, the System was operated during the day to evaluate operations and shutdown at 5 pm each of the three days. The system was put into 24-hour operation on Monday, February 29, 2016.

To increase System up-time, Noble approved the use of a rental generator which was placed on-site on January 19, 2018. Since the installation of the rental generator, outside of the down time attributed to the first quarter 2018 groundwater sampling event, the System has operated at 100% up-time.

The two Clean Earth Technology Magnum Spill Busters were operated in wells SB05 and SB31 from December 1, 2017 through March 16, 2018. The spill buster in SB05 was moved to SB09 to further mitigate consistent LNAPL levels in the northern portion of the site. The spill buster in SB31 was moved to SB30 to further mitigate LNAPL levels in the southern portion of the site.

6.0 UPCOMING SITE ACTIVITIES

Anticipated upcoming Site activities include the following:

- Optimize LNAPL recovery rates and initiate operation of the SVE component of the System;
- Maintain the System for operations; and
- Complete the second quarter 2018 groundwater sampling event in May.

TABLES

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR01	04/21/14	45.55	42.20	3.35	50.34	5244.87	5201.83
PR01	05/16/14	43.07	42.74	0.33	50.34	5244.87	5202.04
PR01	08/27/14	42.92	42.20	0.72	50.34	5244.87	5202.49
PR01	11/18/14	42.50	42.32	0.18	50.34	5244.87	5202.50
PR01	02/11/15	43.57	42.54	1.03	50.34	5244.87	5202.07
PR01	05/18/15	43.20	42.39	0.81	50.34	5244.87	5202.27
PR01	08/25/15	39.15	37.57	1.58	49.20	5244.87	5206.91
PR01	11/09/15	NM	NM	NM	NM	5244.87	NM
PR01	02/19/16	NM	NM	NM	NM	5244.87	NM
PR01	05/20/16	NM	NM	NM	NM	5244.87	NM
PR01	08/12/16	36.28	36.19	0.09	49.40	5244.87	5208.66
PR01	11/18/16	36.68	36.40	0.28	NM	5244.87	5208.40
PR01	02/13/17	36.40	36.13	0.27	NM	5244.87	5208.67
PR01	05/09/17	36.61	36.31	0.30	NM	5241.55	5205.17
PR01	08/22/17	35.36	35.17	0.19	NM	5241.55	5206.33
PR01	11/17/17	36.00	35.80	0.20	NM	5241.55	5205.70
PR01	02/23/18	36.36	35.95	0.41	NM	5241.55	5205.50
PR02	04/21/14	45.25	41.40	3.85	51.10	5244.36	5201.99
PR02	05/16/14	43.48	43.42	0.06	51.10	5244.36	5200.92
PR02	08/27/14	43.63	40.71	2.92	51.10	5244.36	5202.92
PR02	11/18/14	44.26	40.39	3.87	51.10	5244.36	5203.00
PR02	02/11/15	43.39	41.78	1.61	51.10	5244.36	5202.17
PR02	05/18/15	43.08	41.45	1.63	51.10	5245.36	5203.50
PR02	08/25/15	39.00	37.33	1.67	49.69	5245.36	5207.61
PR02	11/09/15	NM	NM	NM	NM	5245.36	NM
PR02	02/19/16	NM	NM	NM	NM	5245.36	NM
PR02	05/20/16	NM	NM	NM	NM	5245.36	NM
PR02	08/12/16	36.41	36.30	0.11	46.98	5245.36	5209.03
PR02	11/18/16	36.36	36.35	0.01	NM	5245.36	5209.01
PR02	02/13/17	36.65	36.00	0.65	NM	5245.36	5209.20
PR02	05/09/17	36.23	ND	0.00	NM	5241.46	5205.23
PR02	08/22/17	35.03	35.00	0.03	NM	5241.46	5206.45
PR02	11/17/17	36.21	35.47	0.74	NM	5241.46	5205.81
PR02	02/23/18	35.86	ND	0.00	NM	5241.46	5205.60
PR03	11/18/14	47.86	ND	0.00	62.33	Not Surveyed	
PR03	02/11/15	48.30	ND	0.00	62.33	Not Surveyed	
PR03	05/18/15	48.19	ND	0.00	62.33	Not Surveyed	
PR03	08/25/15	44.38	ND	0.00	59.35	Not Surveyed	
PR03	11/20/15	43.82	ND	0.00	59.35	Not Surveyed	
PR03	02/19/16	NM	NM	NM	NM	Not Surveyed	
PR03	05/20/16	NM	NM	NM	NM	Not Surveyed	
PR03	08/12/16	44.18	43.82	0.36	59.38	Not Surveyed	

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR03	11/18/16	42.02	41.52	0.50	NM		Not Surveyed
PR03	02/13/17	41.94	ND	0.00	NM		Not Surveyed
PR03	05/09/17	41.56	41.52	0.04	NM	5243.64	5202.11
PR03	08/22/17	41.33	41.11	0.22	NM	5243.64	5202.48
PR03	11/17/17	40.83	40.65	0.18	NM	5243.64	5202.95
PR03	02/23/18	41.05	40.76	0.29	NM	5243.64	5202.81
PR04	11/18/14	47.86	ND	0.00	62.84		Not Surveyed
PR04	02/11/15	48.18	ND	0.00	62.84		Not Surveyed
PR04	05/18/15	48.08	ND	0.00	62.84		Not Surveyed
PR04	08/25/15	43.85	ND	0.00	59.28		Not Surveyed
PR04	11/09/15	NM	NM	NM	NM		Not Surveyed
PR04	02/19/16	NR	ND	0.00	NM		Not Surveyed
PR04	05/20/16	NR	ND	0.00	NM		Not Surveyed
PR04	08/12/16	43.81	43.33	0.48	59.37		Not Surveyed
PR04	11/18/16	40.98	40.95	0.03	NM		Not Surveyed
PR04	02/13/17	41.62	41.42	0.20	NM		Not Surveyed
PR04	05/09/17	40.99	40.97	0.02	NM	5243.34	5202.37
PR04	08/22/17	40.70	40.63	0.07	NM	5243.34	5202.69
PR04	11/17/17	40.81	ND	0.00	NM	5243.34	5202.53
PR04	02/23/18	40.33	ND	0.00	NM	5243.34	5203.01
PR05	11/18/14	47.04	ND	0.00	62.64		Not Surveyed
PR05	02/11/15	47.54	ND	0.00	62.64		Not Surveyed
PR05	05/18/15	47.50	47.33	0.17	62.64		Not Surveyed
PR05	08/25/15	43.37	43.12	0.25	59.67		Not Surveyed
PR05	11/20/15	43.40	43.26	0.14	59.67		Not Surveyed
PR05	02/19/16	NM	NM	NM	NM		Not Surveyed
PR05	05/20/16	NM	NM	NM	NM		Not Surveyed
PR05	08/12/16	40.61	40.60	0.01	57.44		Not Surveyed
PR05	11/18/16	40.77	40.18	0.59	NM		Not Surveyed
PR05	02/13/17	40.98	40.79	0.19	NM		Not Surveyed
PR05	05/09/17	40.81	40.25	0.56	NM	5243.20	5202.81
PR05	08/22/17	40.40	39.91	0.49	NM	5243.20	5203.17
PR05	11/17/17	39.71	39.65	0.06	NM	5243.20	5203.54
PR05	02/23/18	40.12	39.62	0.50	NM	5243.20	5203.46
PR06	11/18/14	46.50	ND	0.00	62.91		Not Surveyed
PR06	02/11/15	47.06	ND	0.00	62.91		Not Surveyed
PR06	05/18/15	46.90	46.86	0.04	62.91		Not Surveyed
PR06	08/25/15	42.37	42.32	0.05	59.73		Not Surveyed
PR06	11/09/15	NM	NM	NM	NM		Not Surveyed
PR06	02/19/16	NM	NM	NM	NM		Not Surveyed
PR06	05/20/16	NM	NM	NM	NM		Not Surveyed
PR06	08/12/16	40.06	39.81	0.25	59.49		Not Surveyed

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR06	11/18/16	40.21	39.55	0.66	NM		Not Surveyed
PR06	02/13/17	40.04	ND	0.00	NM		Not Surveyed
PR06	05/09/17	39.95	39.59	0.36	NM	5242.92	5203.24
PR06	08/22/17	39.62	39.25	0.37	NM	5242.92	5203.58
PR06	11/17/17	39.34	38.82	0.52	NM	5242.92	5203.97
PR06	02/23/18	39.18	39.05	0.13	NM	5242.92	5203.84
PR07	11/18/14	46.89	46.03	0.86	62.72		Not Surveyed
PR07	02/11/15	47.40	46.61	0.79	62.72		Not Surveyed
PR07	05/18/15	47.85	46.17	1.68	62.72		Not Surveyed
PR07	08/25/15	43.27	40.98	2.29	59.45		Not Surveyed
PR07	11/09/15	NM	NM	NM	NM		Not Surveyed
PR07	02/19/16	NM	NM	NM	NM		Not Surveyed
PR07	05/20/16	NM	NM	NM	NM		Not Surveyed
PR07	08/12/16	39.63	39.10	0.53	57.19		Not Surveyed
PR07	11/18/16	39.81	38.83	0.98	NM		Not Surveyed
PR07	02/13/17	40.18	39.11	1.07	NM		Not Surveyed
PR07	05/09/17	40.32	38.70	1.62	NM	5242.62	5203.52
PR07	08/22/17	41.08	38.15	2.93	NM	5242.62	5203.74
PR07	11/17/17	38.66	38.31	0.35	NM	5242.62	5204.22
PR07	02/23/18	39.26	38.30	0.96	NM	5242.62	5204.08
PR08	11/18/14	48.95	45.75	3.20	62.90		Not Surveyed
PR08	02/11/15	50.33	46.11	4.22	62.90		Not Surveyed
PR08	05/18/15	52.09	45.20	6.89	62.90		Not Surveyed
PR08	08/25/15	45.95	38.67	7.28	58.92		Not Surveyed
PR08	11/09/15	NM	NM	NM	NM		Not Surveyed
PR08	02/19/16	NM	NM	NM	NM		Not Surveyed
PR08	05/20/16	NM	NM	NM	NM		Not Surveyed
PR08	08/12/16	38.61	38.47	0.14	56.76		Not Surveyed
PR08	11/18/16	38.76	38.36	0.40	NM		Not Surveyed
PR08	02/13/17	38.96	38.47	0.49	NM		Not Surveyed
PR08	05/09/17	38.42	38.39	0.03	NM	5242.35	5203.95
PR08	08/22/17	38.30	38.15	0.15	NM	5242.35	5204.16
PR08	11/17/17	37.83	37.73	0.10	NM	5242.35	5204.60
PR08	02/23/18	38.22	37.88	0.34	NM	5242.35	5204.39
PR09	11/18/14	60.53	40.81	19.72	65.33		Not Surveyed
PR09	02/11/15	57.77	41.32	16.45	65.33		Not Surveyed
PR09	05/18/15	54.68	40.88	13.80	65.33		Not Surveyed
PR09	08/25/15	44.08	38.86	5.22	65.18		Not Surveyed
PR09	11/09/15	NM	NM	NM	NM		Not Surveyed
PR09	02/19/16	NM	NM	NM	NM		Not Surveyed
PR09	05/20/16	NM	NM	NM	NM		Not Surveyed
PR09	08/12/16	38.58	38.23	0.35	62.77		Not Surveyed

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR09	11/18/16	38.48	38.30	0.18	NM		Not Surveyed
PR09	02/13/17	39.36	37.93	1.43	NM		Not Surveyed
PR09	05/09/17	39.02	38.01	1.01	NM	5242.27	5204.01
PR09	08/22/17	39.05	37.63	1.42	NM	5242.27	5204.29
PR09	11/17/17	38.14	37.35	0.79	NM	5242.27	5204.72
PR09	02/23/18	37.90	37.72	0.18	NM	5242.27	5204.51
PR10	11/18/14	52.29	43.72	8.57	68.38		Not Surveyed
PR10	02/11/15	52.40	42.22	10.18	68.38		Not Surveyed
PR10	05/18/15	54.06	43.55	10.51	68.38		Not Surveyed
PR10	08/25/15	41.19	39.08	2.11	65.07		Not Surveyed
PR10	11/09/15	NM	NM	NM	NM		Not Surveyed
PR10	02/19/16	NM	NM	NM	NM		Not Surveyed
PR10	05/20/16	NM	NM	NM	NM		Not Surveyed
PR10	08/12/16	37.76	ND	0.00	62.86		Not Surveyed
PR10	11/18/16	38.12	37.77	0.35	NM		Not Surveyed
PR10	02/13/17	37.87	37.75	0.12	NM		Not Surveyed
PR10	05/09/17	37.94	37.67	0.27	NM	5241.96	5204.22
PR10	08/22/17	37.69	37.33	0.36	NM	5241.96	5204.54
PR10	11/17/17	37.22	36.92	0.30	NM	5241.96	5204.97
PR10	02/23/18	37.71	37.19	0.52	NM	5241.96	5204.64
PR11	11/18/14	51.90	45.35	6.55	67.98		Not Surveyed
PR11	02/11/15	52.40	45.54	6.86	67.98		Not Surveyed
PR11	05/18/15	57.40	44.53	12.87	67.98		Not Surveyed
PR11	08/25/15	42.62	38.61	4.01	64.31		Not Surveyed
PR11	11/09/15	NM	NM	NM	NM		Not Surveyed
PR11	02/19/16	NR	NR	5.45	NM		Not Surveyed
PR11	05/20/16	NR	NR	2.35	NM		Not Surveyed
PR11	08/12/16	38.95	37.20	1.75	62.14		Not Surveyed
PR11	11/18/16	37.78	37.59	0.19	NM		Not Surveyed
PR11	02/13/17	37.94	37.41	0.53	NM		Not Surveyed
PR11	05/09/17	37.63	37.52	0.11	NM	5241.86	5204.31
PR11	08/22/17	37.40	37.16	0.24	NM	5241.86	5204.64
PR11	11/17/17	37.00	36.73	0.27	NM	5241.86	5205.06
PR11	02/23/18	37.53	36.97	0.56	NM	5241.86	5204.75
PR12	11/18/14	50.22	ND	0.00	68.30		Not Surveyed
PR12	02/11/15	48.99	48.92	0.07	68.30		Not Surveyed
PR12	05/18/15	48.44	48.20	0.24	68.30		Not Surveyed
PR12	08/25/15	40.92	40.13	0.79	64.42		Not Surveyed
PR12	11/20/15	40.56	39.75	1.31	64.42		Not Surveyed
PR12	02/19/16	NM	NM	NM	NM		Not Surveyed
PR12	05/20/16	NM	NM	NM	NM		Not Surveyed
PR12	08/12/16	37.84	37.79	0.05	62.28		Not Surveyed

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR12	11/18/16	38.07	37.59	0.48	NM		Not Surveyed
PR12	02/13/17	38.29	37.45	0.84	NM		Not Surveyed
PR12	05/09/17	37.64	ND	0.00	NM	5241.53	5203.89
PR12	08/22/17	37.62	37.20	0.42	NM	5241.53	5204.23
PR12	11/17/17	37.47	36.72	0.75	NM	5241.53	5204.62
PR12	02/23/18	37.18	37.16	0.02	NM	5241.53	5204.37
PR13	11/18/14	48.77	ND	0.00	67.96		Not Surveyed
PR13	02/11/15	49.08	ND	0.00	67.96		Not Surveyed
PR13	05/18/15	48.84	ND	0.00	67.96		Not Surveyed
PR13	08/25/15	44.39	44.34	0.05	64.08		Not Surveyed
PR13	11/20/15	43.80	43.78	0.02	64.08		Not Surveyed
PR13	02/19/16	NM	NM	NM	NM		Not Surveyed
PR13	05/20/16	NM	NM	NM	NM		Not Surveyed
PR13	08/12/16	41.64	41.38	0.26	61.89		Not Surveyed
PR13	11/18/16	41.80	41.42	0.38	NM		Not Surveyed
PR13	02/13/17	41.76	ND	0.00	NM		Not Surveyed
PR13	05/09/17	41.24	ND	0.00	NM	5243.39	5202.15
PR13	08/22/17	48.51	48.50	0.01	NM	5243.39	5194.89
PR13	11/17/17	40.49	ND	0.00	NM	5243.39	5202.90
PR13	02/23/18	46.80	46.70	0.10	NM	5243.39	5196.67
PR14	11/18/14	48.46	ND	0.00	67.60		Not Surveyed
PR14	02/11/15	48.58	ND	0.00	67.60		Not Surveyed
PR14	05/18/15	48.25	ND	0.00	67.60		Not Surveyed
PR14	08/25/15	43.88	ND	0.00	64.37		Not Surveyed
PR14	11/09/15	NM	NM	NM	NM		Not Surveyed
PR14	02/19/16	NM	NM	NM	NM		Not Surveyed
PR14	05/20/16	NM	NM	NM	NM		Not Surveyed
PR14	08/12/16	41.64	40.70	0.94	62.15		Not Surveyed
PR14	11/18/16	41.03	ND	0.00	NM		Not Surveyed
PR14	02/13/17	41.68	41.04	0.64	NM		Not Surveyed
PR14	05/09/17	41.01	40.69	0.32	NM	5243.15	5202.38
PR14	08/22/17	41.20	40.10	1.10	NM	5243.15	5202.78
PR14	11/17/17	40.02	40.01	0.01	NM	5243.15	5203.14
PR14	02/23/18	41.38	39.82	1.56	NM	5243.15	5202.94
PR15	11/18/14	48.92	48.74	0.18	68.10		Not Surveyed
PR15	02/11/15	49.08	48.42	0.66	68.10		Not Surveyed
PR15	05/18/15	49.62	47.75	1.87	68.10		Not Surveyed
PR15	08/25/15	45.91	42.92	2.99	64.77		Not Surveyed
PR15	11/09/15	NM	NM	NM	NM		Not Surveyed
PR15	02/19/16	NM	NM	NM	NM		Not Surveyed
PR15	05/20/16	NM	NM	NM	NM		Not Surveyed
PR15	08/12/16	41.54	40.40	1.14	62.54		Not Surveyed

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR15	11/18/16	42.13	40.14	1.99	NM		Not Surveyed
PR15	02/13/17	41.16	40.79	0.37	NM		Not Surveyed
PR15	05/09/17	41.13	40.20	0.93	NM	5243.05	5202.62
PR15	08/22/17	41.24	39.75	1.49	NM	5243.05	5202.93
PR15	11/17/17	39.84	39.77	0.07	NM	5243.05	5203.26
PR15	02/23/18	40.39	39.78	0.61	NM	5243.05	5203.12
PR16	11/18/14	47.70	47.06	0.64	68.40		Not Surveyed
PR16	02/11/15	48.84	46.79	2.05	68.40		Not Surveyed
PR16	05/18/15	51.58	45.53	6.05	68.40		Not Surveyed
PR16	08/25/15	50.02	40.81	9.21	65.26		Not Surveyed
PR16	11/09/15	NM	NM	NM	NM		Not Surveyed
PR16	02/19/16	NM	NM	NM	NM		Not Surveyed
PR16	05/20/16	NM	NM	NM	NM		Not Surveyed
PR16	08/12/16	40.83	39.85	0.98	63.11		Not Surveyed
PR16	11/18/16	43.87	38.69	5.18	NM		Not Surveyed
PR16	02/13/17	40.64	40.14	0.50	NM		Not Surveyed
PR16	05/09/17	41.58	39.40	2.18	NM	5242.81	5202.87
PR16	08/22/17	41.80	38.60	3.20	NM	5242.81	5203.41
PR16	11/17/17	40.81	38.84	1.97	NM	5242.81	5203.48
PR16	02/23/18	39.69	39.35	0.34	NM	5242.81	5203.38
PR17	11/18/14	47.62	47.51	0.11	68.13		Not Surveyed
PR17	02/11/15	47.69	47.44	0.25	68.13		Not Surveyed
PR17	05/18/15	47.68	47.06	0.62	68.13		Not Surveyed
PR17	08/25/15	43.33	42.55	0.78	65.24		Not Surveyed
PR17	11/09/15	NM	NM	NM	NM		Not Surveyed
PR17	02/19/16	NM	NM	NM	NM		Not Surveyed
PR17	05/20/16	NM	NM	NM	NM		Not Surveyed
PR17	08/12/16	39.95	39.90	0.05	63.05		Not Surveyed
PR17	11/18/16	39.74	39.63	0.11	NM		Not Surveyed
PR17	02/13/17	40.01	39.85	0.16	NM		Not Surveyed
PR17	05/09/17	39.80	39.61	0.19	NM	5242.70	5203.04
PR17	08/22/17	39.30	39.22	0.08	NM	5242.70	5203.46
PR17	11/17/17	38.94	38.90	0.04	NM	5242.70	5203.79
PR17	02/23/18	39.21	39.08	0.13	NM	5242.70	5203.59
PR18	11/18/14	49.95	45.97	3.98	67.95		Not Surveyed
PR18	02/11/15	54.62	45.95	8.67	67.95		Not Surveyed
PR18	05/18/15	58.44	44.91	13.53	67.95		Not Surveyed
PR18	08/25/15	50.27	40.50	9.77	65.05		Not Surveyed
PR18	11/09/15	NM	NM	NM	NM		Not Surveyed
PR18	02/19/16	NM	NM	NM	NM		Not Surveyed
PR18	05/20/16	NM	NM	NM	NM		Not Surveyed
PR18	08/12/16	49.20	37.31	11.89	62.88		Not Surveyed

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR18	11/18/16	44.79	37.70	7.09	NM		Not Surveyed
PR18	02/13/17	42.20	38.47	3.73	NM		Not Surveyed
PR18	05/09/17	42.84	38.08	4.76	NM	5242.35	5203.08
PR18	08/22/17	42.70	37.55	5.15	NM	5242.35	5203.51
PR18	11/17/17	38.99	38.11	0.88	NM	5242.35	5204.02
PR18	02/23/18	41.54	37.70	3.84	NM	5242.35	5203.69
PR19	11/18/14	51.35	ND	0.00	67.98		Not Surveyed
PR19	02/11/15	49.41	ND	0.00	67.98		Not Surveyed
PR19	05/18/15	48.71	ND	0.00	67.98		Not Surveyed
PR19	08/25/15	43.27	ND	0.00	64.48		Not Surveyed
PR19	11/20/15	44.04	41.98	2.06	64.48		Not Surveyed
PR19	02/19/16	NM	ND	0.00	NM		Not Surveyed
PR19	05/20/16	NM	ND	0.00	NM		Not Surveyed
PR19	08/12/16	44.98	39.59	5.39	62.32		Not Surveyed
PR19	11/18/16	42.08	38.88	3.20	NM		Not Surveyed
PR19	02/13/17	40.07	39.67	0.40	NM		Not Surveyed
PR19	05/09/17	34.87	34.43	0.44	NM	5249.37	5214.83
PR19	08/22/17	40.30	38.75	1.55	NM	5249.37	5210.23
PR19	11/17/17	39.76	38.35	1.41	NM	5242.17	5203.47
PR19	02/23/18	39.54	38.53	1.01	NM	5242.17	5203.39
PR20	11/18/14	52.50	ND	0.00	67.60		Not Surveyed
PR20	02/11/15	52.78	ND	0.00	67.60		Not Surveyed
PR20	05/18/15	52.71	ND	0.00	67.60		Not Surveyed
PR20	08/25/15	49.03	ND	0.00	64.46		Not Surveyed
PR20	11/20/15	48.99	ND	0.00	64.46		Not Surveyed
PR20	02/19/16	NM	ND	0.00	NM		Not Surveyed
PR20	05/20/16	NM	ND	0.00	NM		Not Surveyed
PR20	08/12/16	46.49	ND	0.00	62.28		Not Surveyed
PR20	11/18/16	42.64	ND	0.00	NM		Not Surveyed
PR20	02/13/17	46.25	ND	0.00	NM		Not Surveyed
PR20	05/09/17	NM	NM	NM	NM	5244.86	NM
PR20	08/22/17	45.90	ND	0.00	NM	5244.86	5198.96
PR20	11/17/17	45.51	ND	0.00	NM	5244.86	5199.35
PR20	02/27/18	45.62	ND	0.00	NM	5244.86	5199.24
PR21	11/18/14	52.39	ND	0.00	67.99		Not Surveyed
PR21	02/11/15	52.59	ND	0.00	67.99		Not Surveyed
PR21	05/18/15	52.52	ND	0.00	67.99		Not Surveyed
PR21	08/25/15	48.70	ND	0.00	64.50		Not Surveyed
PR21	11/20/15	48.56	ND	0.00	64.50		Not Surveyed
PR21	02/19/16	NM	NM	NM	NM		Not Surveyed
PR21	05/20/16	NM	NM	NM	NM		Not Surveyed
PR21	08/12/16	46.10	ND	0.00	62.33		Not Surveyed

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR21	11/18/16	46.55	46.54	0.01	NM		Not Surveyed
PR21	02/13/17	45.88	ND	0.00	NM		Not Surveyed
PR21	05/09/17	NM	NM	NM	NM	5244.58	NM
PR21	08/22/17	45.45	ND	0.00	NM	5244.58	5199.13
PR21	11/17/17	45.07	ND	0.00	NM	5244.58	5199.51
PR21	02/27/18	45.18	ND	0.00	NM	5244.58	5199.40
PR22	11/18/14	52.20	ND	0.00	67.62		Not Surveyed
PR22	02/11/15	52.15	ND	0.00	67.62		Not Surveyed
PR22	05/18/15	52.10	ND	0.00	67.92		Not Surveyed
PR22	08/25/15	48.44	ND	0.00	64.44		Not Surveyed
PR22	11/20/15	48.26	ND	0.00	64.44		Not Surveyed
PR22	02/19/16	NM	NM	NM	NM		Not Surveyed
PR22	05/20/16	NM	NM	NM	NM		Not Surveyed
PR22	08/12/16	45.71	ND	0.00	62.29		Not Surveyed
PR22	11/18/16	45.69	ND	0.00	NM		Not Surveyed
PR22	02/13/17	45.50	ND	0.00	NM		Not Surveyed
PR22	05/09/17	NM	NM	NM	NM	5244.22	NM
PR22	08/22/17	44.98	ND	0.00	NM	5244.22	5199.24
PR22	11/17/17	44.61	ND	0.00	NM	5244.22	5199.61
PR22	02/27/18	44.70	ND	0.00	NM	5244.22	5199.52
PR23	11/18/14	52.52	ND	0.00	68.20		Not Surveyed
PR23	02/11/15	52.18	ND	0.00	68.20		Not Surveyed
PR23	05/18/15	52.09	ND	0.00	68.20		Not Surveyed
PR23	08/25/15	48.16	ND	0.00	64.39		Not Surveyed
PR23	11/09/15	NM	NM	NM	NM		Not Surveyed
PR23	02/19/16	NM	NM	NM	NM		Not Surveyed
PR23	05/20/16	NM	NM	NM	NM		Not Surveyed
PR23	08/12/16	45.21	ND	0.00	62.17		Not Surveyed
PR23	11/18/16	45.29	ND	0.00	NM		Not Surveyed
PR23	02/13/17	45.00	ND	0.00	NM		Not Surveyed
PR23	05/09/17	NM	NM	NM	NM	5243.92	NM
PR23	08/22/17	44.40	ND	0.00	NM	5243.92	5199.52
PR23	11/17/17	44.00	ND	0.00	NM	5243.92	5199.92
PR23	02/27/18	44.14	ND	0.00	NM	5243.92	5199.78
PR24	11/18/14	51.71	ND	0.00	68.12		Not Surveyed
PR24	02/11/15	51.82	51.65	0.17	68.12		Not Surveyed
PR24	05/18/15	52.04	51.44	0.60	68.12		Not Surveyed
PR24	08/25/15	48.29	47.56	0.73	64.30		Not Surveyed
PR24	11/09/15	NM	NM	NM	NM		Not Surveyed
PR24	02/19/16	NM	NM	NM	NM		Not Surveyed
PR24	05/20/16	NM	NM	NM	NM		Not Surveyed
PR24	08/12/16	44.80	44.66	0.14	62.09		Not Surveyed

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
PR24	11/18/16	44.83	ND	0.00	NM		Not Surveyed
PR24	02/13/17	44.55	44.50	0.05	NM		Not Surveyed
PR24	05/09/17	44.18	44.10	0.08	NM	5243.46	5199.34
PR24	08/22/17	43.90	43.85	0.05	NM	5243.46	5199.60
PR24	11/17/17	44.58	44.54	0.04	NM	5243.46	5198.91
PR24	02/23/18	43.97	43.78	0.19	NM	5243.46	5199.63
PR25	11/18/14	66.20	ND	0.00	68.15		Not Surveyed
PR25	02/11/15	51.75	51.28	0.47	68.15		Not Surveyed
PR25	05/18/15	52.46	50.94	1.52	68.15		Not Surveyed
PR25	08/25/15	49.24	46.78	2.46	64.39		Not Surveyed
PR25	11/20/15	50.03	26.24	23.79	64.39		Not Surveyed
PR25	02/19/16	NM	NM	NM	NM		Not Surveyed
PR25	05/20/16	NM	NM	NM	NM		Not Surveyed
PR25	08/12/16	50.80	42.86	7.94	62.27		Not Surveyed
PR25	11/18/16	48.93	42.76	6.17	NM		Not Surveyed
PR25	02/13/17	44.53	44.09	0.44	NM		Not Surveyed
PR25	05/09/17	45.93	43.11	2.82	NM	5243.21	5199.40
PR25	08/22/17	45.90	42.80	3.10	NM	5243.21	5199.64
PR25	11/17/17	43.43	43.10	0.33	NM	5243.21	5200.03
PR25	02/23/18	43.61	43.27	0.34	NM	5243.21	5199.86
PR26	11/18/14	51.21	51.19	0.02	67.90		Not Surveyed
PR26	02/11/15	51.46	51.19	0.27	67.90		Not Surveyed
PR26	05/18/15	51.64	50.95	0.69	67.90		Not Surveyed
PR26	08/25/15	47.68	46.78	0.90	63.98		Not Surveyed
PR26	11/20/15	47.60	46.50	1.10	63.98		Not Surveyed
PR26	02/19/16	NM	NM	NM	NM		Not Surveyed
PR26	05/20/16	NM	NM	NM	NM		Not Surveyed
PR26	08/12/16	46.27	43.13	3.14	61.89		Not Surveyed
PR26	11/18/16	43.96	43.62	0.34	NM		Not Surveyed
PR26	02/13/17	43.65	43.24	0.41	NM		Not Surveyed
PR26	05/09/17	44.32	42.59	1.73	NM	5242.84	5199.82
PR26	08/22/17	44.50	42.19	2.31	NM	5242.84	5200.07
PR26	11/17/17	42.67	42.39	0.28	NM	5242.84	5200.38
PR26	02/23/18	43.54	42.40	1.14	NM	5242.84	5200.16
SB01	02/21/14	41.68	ND	0.00	60.35	5245.29	5203.61
SB01	05/16/14	41.13	ND	0.00	60.35	5245.29	5204.16
SB01	05/19/14	Removed From Groundwater Monitoring Program - Submerged Well Screen					
SB02	02/21/14	39.80	ND	0.00	59.95	5243.53	5203.73
SB02	05/16/14	38.97	ND	0.00	59.95	5243.53	5204.56
SB02	05/19/14	Removed From Groundwater Monitoring Program - Submerged Well Screen					
SB03	02/21/14	42.01	ND	0.00	51.38	5245.57	5203.56
SB03	05/16/14	41.41	ND	0.00	51.38	5245.57	5204.16

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB03	08/27/14	41.82	ND	0.00	51.38	5245.57	5203.75
SB03	11/18/14	41.56	ND	0.00	51.38	5245.57	5204.01
SB03	02/11/15	41.82	ND	0.00	51.38	5245.57	5203.75
SB03	05/18/15	41.72	ND	0.00	51.38	5245.57	5203.85
SB03	08/25/15	35.39	ND	0.00	45.81	5241.17	5205.78
SB03	11/20/15	34.49	ND	0.00	45.81	5242.17	5207.68
SB03	02/19/16	34.26	ND	0.00	45.79	5242.17	5207.91
SB03	05/20/16	33.57	ND	0.00	45.79	5242.17	5208.60
SB03	08/12/16	32.57	ND	0.00	45.80	5242.17	5209.60
SB03	11/18/16	31.76	ND	0.00	45.87	5242.17	5210.41
SB03	02/13/17	31.23	ND	0.00	45.81	5242.17	5210.94
SB03	05/09/17	30.83	ND	0.00	45.83	5242.17	5211.34
SB03	08/22/17	30.61	ND	0.00	45.85	5242.17	5211.56
SB03	11/17/17	29.39	ND	0.00	45.83	5242.17	5212.78
SB03	02/23/18	28.96	ND	0.00	45.89	5242.17	5213.21
SB04	02/21/14	39.24	ND	0.00	50.35	5242.85	5203.61
SB04	05/16/14	38.37	ND	0.00	50.35	5242.85	5204.48
SB04	08/27/14	38.97	ND	0.00	50.35	5242.85	5203.88
SB04	11/18/14	38.72	ND	0.00	50.35	5242.85	5204.13
SB04	02/11/15	39.01	ND	0.00	50.35	5242.85	5203.84
SB04	05/18/15	38.87	ND	0.00	50.35	5242.85	5203.98
SB04	08/25/15	34.70	ND	0.00	48.67	5241.29	5206.59
SB04	11/20/15	33.97	ND	0.00	48.67	5242.29	5208.32
SB04	02/19/16	33.80	ND	0.00	48.69	5242.29	5208.49
SB04	05/20/16	36.50	ND	0.00	52.04	5244.63	5208.13
SB04	08/12/16	35.66	ND	0.00	52.02	5244.63	5208.97
SB04	11/18/16	35.01	ND	0.00	52.08	5244.63	5209.62
SB04	02/13/17	34.50	ND	0.00	52.02	5244.63	5210.13
SB04	05/09/17	34.17	ND	0.00	52.03	5244.63	5210.46
SB04	08/22/17	33.96	ND	0.00	52.01	5244.63	5210.67
SB04	11/17/17	32.54	ND	0.00	52.01	5244.63	5212.09
SB04	02/23/18	32.67	ND	0.00	52.08	5244.63	5211.96
SB05	02/21/14	45.35	41.10	4.25	49.10	5244.11	5201.94
SB05	05/16/14	42.19	41.92	0.27	49.10	5244.11	5202.12
SB05	08/27/14	42.45	41.10	1.35	49.10	5244.11	5202.67
SB05	11/18/14	41.61	41.27	0.34	49.10	5244.11	5202.75
SB05	02/11/15	42.92	41.58	1.34	49.10	5244.11	5202.19
SB05	05/18/15	42.36	41.38	0.98	49.10	5243.26	5201.64
SB05	08/25/15	38.02	36.99	1.03	47.39	5243.26	5206.01
SB05	11/20/15	38.12	36.78	1.34	47.39	5244.26	5207.15
SB05	02/19/16	36.70	ND	0.00 ¹	47.39	5244.26	5207.56
SB05	05/20/16	43.95	41.63	2.32	51.85	5247.71	5205.50

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB05	08/12/16	44.64	41.84	2.80	51.89	5247.71	5205.17
SB05	11/18/16	44.93	41.90	3.03	NM	5247.71	5205.05
SB05	02/13/17	44.70	41.66	3.04	NM	5247.71	5205.29
SB05	05/09/17	44.87	41.64	3.23	51.89	5247.71	5205.26
SB05	08/22/17	45.07	41.66	3.41	NM	5247.71	5205.20
SB05	11/17/17	44.40	41.20	3.20	NM	5247.71	5205.71
SB05	02/23/18	43.45	43.16	0.29	NM	5247.71	5204.48
SB06	02/21/14	39.86	ND	0.00	49.52	5243.55	5203.69
SB06	05/16/14	38.91	ND	0.00	49.52	5243.55	5204.64
SB06	08/27/14	39.55	ND	0.00	49.52	5243.55	5204.00
SB06	11/18/14	39.32	ND	0.00	49.52	5243.55	5204.23
SB06	02/11/15	39.59	ND	0.00	49.52	5243.55	5203.96
SB06	05/18/15	39.49	ND	0.00	49.52	5243.55	5204.06
SB06	08/25/15	35.21	ND	0.00	47.61	5241.80	5206.59
SB06	11/20/15	34.44	ND	0.00	47.61	5242.80	5208.36
SB06	02/19/16	34.20	ND	0.00	47.60	5242.80	5208.60
SB06	05/20/16	37.08	ND	0.00	50.98	5245.23	5208.15
SB06	08/12/16	36.38	ND	0.00	50.98	5245.23	5208.85
SB06	11/18/16	35.73	ND	0.00	51.10	5245.23	5209.50
SB06	02/13/17	35.33	ND	0.00	50.96	5245.23	5209.90
SB06	05/09/17	34.95	ND	0.00	50.96	5245.23	5210.28
SB06	08/22/17	34.82	ND	0.00	50.97	5245.23	5210.41
SB06	11/17/17	33.75	ND	0.00	50.89	5245.23	5211.48
SB06	02/23/18	33.57	ND	0.00	51.09	5245.23	5211.66
SB07	02/21/14	42.73	ND	0.00	50.40	5245.62	5202.89
SB07	05/16/14	42.70	ND	0.00	50.40	5245.62	5202.92
SB07	08/27/14	42.55	ND	0.00	50.40	5245.62	5203.07
SB07	11/18/14	42.34	ND	0.00	50.40	5245.62	5203.28
SB07	02/11/15	42.45	ND	0.00	50.40	5245.62	5203.17
SB07	05/18/15	39.70	ND	0.00	47.82	5243.18	5203.48
SB07	08/25/15	38.25	ND	0.00	47.84	5243.18	5204.93
SB07	11/20/15	33.08	ND	0.00	47.84	5244.18	5211.10
SB07	02/19/16	34.78	ND	0.00	47.84	5244.18	5209.40
SB07	05/20/16	40.30	ND	0.00	51.56	5246.91	5206.61
SB07	08/12/16	40.37	ND	0.00	51.56	5246.91	5206.54
SB07	11/18/16	40.17	ND	0.00	51.63	5246.91	5206.74
SB07	02/13/17	39.84	ND	0.00	51.56	5246.91	5207.07
SB07	05/09/17	39.60	ND	0.00	51.56	5246.91	5207.31
SB07	08/22/17	39.40	ND	0.00	51.56	5246.91	5207.51
SB07	11/17/17	39.05	ND	0.00	51.56	5246.91	5207.86
SB07	02/23/18	38.59	ND	0.00	51.62	5246.91	5208.32
SB08	02/21/14	44.46	ND	0.00	50.41	5246.57	5202.11

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB08	05/16/14	44.54	ND	0.00	50.41	5246.57	5202.03
SB08	08/27/14	44.30	ND	0.00	50.41	5246.57	5202.27
SB08	11/18/14	45.16	44.88	0.28	50.41	5246.57	5201.62
SB08	02/11/15	45.64	45.51	0.13	50.41	5246.57	5201.03
SB08	05/18/15	45.09	ND	0.00	50.41	5246.57	5201.48
SB08	08/25/15	40.63	ND	0.00	48.32	5244.80	5204.17
SB08	11/20/15	39.04	39.01	0.03	48.32	5245.80	5206.78
SB08	02/19/16	35.17	ND	0.00 ¹	48.32	5245.80	5210.63
SB08	05/20/16	42.88	ND	0.00	51.08	5247.67	5204.79
SB08	08/12/16	43.20	ND	0.00	51.00	5247.67	5204.47
SB08	11/18/16	42.91	ND	0.00	51.26	5247.67	5204.76
SB08	02/13/17	42.75	ND	0.00	51.08	5247.67	5204.92
SB08	05/09/17	42.72	ND	0.00	51.10	5247.67	5204.95
SB08	08/22/17	42.44	ND	0.00	51.09	5247.67	5205.23
SB08	11/17/17	42.10	ND	0.00	51.09	5247.67	5205.57
SB08	02/23/18	42.08	ND	0.00	51.26	5247.67	5205.59
SB09	02/21/14	45.80	43.00	2.80	50.55	5245.53	5201.83
SB09	05/16/14	45.37	43.81	1.56	50.55	5245.53	5201.33
SB09	08/27/14	42.67	42.12	0.55	49.79	5244.86	5202.60
SB09	11/18/14	42.19	41.37	0.82	50.55	5244.86	5203.29
SB09	02/11/15	43.07	41.97	1.10	50.55	5244.86	5202.62
SB09	05/18/15	42.30	41.23	1.07	50.55	5244.86	5203.36
SB09	08/25/15	39.98	38.35	1.63	47.44	5243.49	5204.73
SB09	11/20/15	40.11	38.36	1.75	47.44	5244.49	5205.69
SB09	02/19/16	38.17	NM	NM ¹	47.44	5244.49	5206.32
SB09	05/20/16	43.94	42.99	0.95	52.15	5248.20	5204.98
SB09	08/12/16	44.39	43.30	1.09	52.19	5248.20	5204.63
SB09	11/18/16	44.49	43.35	1.14	NM	5248.20	5204.57
SB09	02/13/17	44.32	43.29	1.03	NM	5248.20	5204.66
SB09	05/09/17	44.23	43.19	1.04	52.15	5248.20	5204.75
SB09	08/22/17	44.32	43.19	1.13	NM	5248.20	5204.73
SB09	11/17/17	43.51	42.65	0.86	NM	5248.20	5205.34
SB09	02/23/18	43.89	42.90	0.99	NM	5248.20	5205.05
SB10	02/21/14	41.71	ND	0.00	50.49	5245.24	5203.53
SB10	05/16/14	41.17	ND	0.00	50.49	5245.24	5204.07
SB10	08/27/14	41.23	41.22	0.01	50.49	5245.24	5204.02
SB10	11/18/14	40.92	ND	0.00	50.49	5245.24	5204.32
SB10	02/11/15	41.18	ND	0.00	50.49	5245.24	5204.06
SB10	05/18/15	39.03	ND	0.00	48.35	5243.28	5204.25
SB10	08/25/15	37.39	ND	0.00	48.35	5243.28	5205.89
SB10	11/20/15	36.25	ND	0.00	48.35	5244.28	5208.03
SB10	02/19/16	35.65	ND	0.00 ¹	48.35	5244.28	5208.63

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB10	05/20/16	40.29	ND	0.00	51.89	5247.80	5207.51
SB10	08/12/16	40.19	ND	0.00	52.90	5247.80	5207.61
SB10	11/18/16	39.82	ND	0.00	52.96	5247.80	5207.98
SB10	02/13/17	39.56	ND	0.00	52.90	5247.80	5208.24
SB10	05/09/17	39.09	ND	0.00	52.92	5247.81	5208.72
SB10	08/22/17	38.94	ND	0.00	52.91	5247.81	5208.87
SB10	11/17/17	38.05	ND	0.00	52.90	5247.81	5209.76
SB10	02/23/18	37.89	ND	0.00	52.96	5247.81	5209.92
SB11	02/21/14	40.03	ND	0.00	50.35	5244.09	5204.06
SB11	05/16/14	38.96	ND	0.00	50.35	5244.09	5205.13
SB11	08/27/14	39.70	ND	0.00	50.35	5244.09	5204.39
SB11	11/18/14	39.41	ND	0.00	50.35	5244.09	5204.68
SB11	02/11/15	39.65	ND	0.00	50.35	5244.09	5204.44
SB11	05/18/15	39.29	ND	0.00	50.35	5244.09	5204.80
SB11	08/25/15	35.30	ND	0.00	48.11	5241.88	5206.58
SB11	11/20/15	34.59	ND	0.00	48.11	5242.88	5208.29
SB11	02/19/16	34.32	ND	0.00	48.11	5242.88	5208.56
SB11	05/20/16	37.15	ND	0.00	51.54	5245.20	5208.05
SB11	08/12/16	36.65	ND	0.00	51.44	5245.20	5208.55
SB11	11/18/16	36.05	ND	0.00	51.51	5245.20	5209.15
SB11	02/13/17	35.69	ND	0.00	51.44	5245.20	5209.51
SB11	05/09/17	35.29	ND	0.00	51.46	5245.21	5209.92
SB11	08/22/17	35.19	ND	0.00	51.44	5245.21	5210.02
SB11	11/17/17	34.16	ND	0.00	51.45	5245.21	5211.05
SB11	02/23/18	33.98	ND	0.00	51.50	5245.21	5211.23
SB12	02/21/14	39.44	ND	0.00	50.50	5243.18	5203.74
SB12	05/16/14	39.31	ND	0.00	50.50	5243.18	5203.87
SB12	08/27/14	39.30	ND	0.00	50.50	5243.18	5203.88
SB12	11/18/14	39.29	ND	0.00	50.50	5243.18	5203.89
SB12	02/11/15	39.14	ND	0.00	50.50	5243.18	5204.04
SB12	05/18/15	38.93	ND	0.00	50.50	5243.18	5204.25
SB12	08/25/15	36.31	ND	0.00	48.60	5241.41	5205.10
SB12	11/20/15	35.10	ND	0.00	48.60	5242.41	5207.31
SB12	02/19/16	34.22	ND	0.00	48.61	5242.41	5208.19
SB12	05/20/16	33.74	ND	0.00	48.61	5242.41	5208.67
SB12	08/12/16	32.90	ND	0.00	48.62	5242.41	5209.51
SB12	11/18/16	31.68	ND	0.00	48.70	5242.41	5210.73
SB12	02/13/17	30.93	ND	0.00	48.63	5242.41	5211.48
SB12	05/09/17	30.51	ND	0.00	48.62	5242.41	5211.90
SB12	08/22/17	34.40	ND	0.00	48.63	5242.41	5208.01
SB12	11/17/17	29.54	ND	0.00	48.64	5242.41	5212.87
SB12	02/23/18	29.00	ND	0.00	48.36	5242.41	5213.41

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB13	02/21/14	42.93	ND	0.00	50.48	5244.13	5201.20
SB13	05/16/14	42.43	ND	0.00	50.48	5244.13	5201.70
SB13	08/27/14	41.30	ND	0.00	50.48	5244.13	5202.83
SB13	11/18/14	40.79	ND	0.00	50.48	5244.13	5203.34
SB13	02/11/15	40.65	ND	0.00	50.48	5244.13	5203.48
SB13	05/18/15	40.26	ND	0.00	50.48	5244.13	5203.87
SB13	08/25/15	36.95	ND	0.00	48.39	5242.18	5205.23
SB13	11/20/15	34.54	ND	0.00	48.39	5243.18	5208.64
SB13	02/19/16	33.83	ND	0.00	48.07	5243.18	5209.35
SB13	05/20/16	37.35	ND	0.00	51.69	5245.47	5208.12
SB13	08/12/16	36.46	ND	0.00	51.69	5245.47	5209.01
SB13	11/18/16	35.98	ND	0.00	51.74	5245.47	5209.49
SB13	02/13/17	35.74	ND	0.00	51.68	5245.47	5209.73
SB13	05/09/17	35.45	ND	0.00	51.69	5245.47	5210.02
SB13	08/22/17	35.29	ND	0.00	51.68	5245.47	5210.18
SB13	11/17/17	34.64	ND	0.00	49.99	5245.47	5210.83
SB13	02/23/18	34.28	ND	0.00	50.18	5245.47	5211.19
SB14	02/21/14	41.04	ND	0.00	50.39	5244.82	5203.78
SB14	05/16/14	40.36	ND	0.00	50.39	5244.82	5204.46
SB14	08/27/14	40.67	ND	0.00	50.39	5244.82	5204.15
SB14	11/18/14	40.36	ND	0.00	50.39	5244.82	5204.46
SB14	02/11/15	40.64	ND	0.00	50.39	5244.82	5204.18
SB14	05/18/15	40.52	ND	0.00	50.39	5244.82	5204.30
SB14	08/25/15	36.86	ND	0.00	48.45	5243.02	5206.16
SB14	11/20/15	35.82	ND	0.00	48.45	5244.02	5208.20
SB14	02/19/16	35.34	ND	0.00	48.45	5244.02	5208.68
SB14	05/20/16	38.42	ND	0.00	51.94	5246.22	5207.80
SB14	08/12/16	38.23	ND	0.00	51.64	5246.22	5207.99
SB14	11/18/16	37.77	ND	0.00	51.69	5246.22	5208.45
SB14	02/13/17	37.41	ND	0.00	51.63	5246.22	5208.81
SB14	05/09/17	37.02	ND	0.00	51.65	5246.22	5209.20
SB14	08/22/17	36.93	ND	0.00	51.65	5246.22	5209.29
SB14	11/17/17	35.99	ND	0.00	51.65	5246.22	5210.23
SB14	02/23/18	35.80	ND	0.00	51.70	5246.22	5210.42
SB15	02/21/14	40.67	ND	0.00	45.40	5244.25	5203.58
SB15	05/16/14	40.39	ND	0.00	45.40	5244.25	5203.86
SB15	08/27/14	40.38	ND	0.00	45.40	5244.25	5203.87
SB15	11/18/14	40.10	ND	0.00	45.40	5244.25	5204.15
SB15	02/11/15	40.23	ND	0.00	45.40	5244.25	5204.02
SB15	05/18/15	40.10	ND	0.00	45.10	5244.37	5204.27
SB15	08/25/15	38.88	ND	0.00	45.13	5244.37	5205.49
SB15	11/20/15	37.37	ND	0.00	45.13	5245.37	5208.00

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB15	02/19/16	37.15	ND	0.00	45.13	5245.37	5208.22
SB15	05/20/16	40.91	ND	0.00	48.72	5247.97	5207.06
SB15	08/12/16	40.86	ND	0.00	48.37	5247.97	5207.11
SB15	11/18/16	40.38	ND	0.00	48.77	5247.97	5207.59
SB15	02/13/17	40.04	ND	0.00	48.45	5247.97	5207.93
SB15	05/09/17	39.56	ND	0.00	48.41	5247.97	5208.41
SB15	08/22/17	39.28	ND	0.00	48.37	5247.97	5208.69
SB15	11/17/17	38.32	ND	0.00	48.38	5247.97	5209.65
SB15	02/23/18	37.73	ND	0.00	48.55	5247.97	5210.24
SB16	02/21/14	42.53	ND	0.00	42.78	5247.56	DRY
SB16	05/16/14	42.53	ND	0.00	42.78	5247.56	DRY
SB16	08/27/14	42.54	ND	0.00	42.78	5247.56	DRY
SB16	11/18/14	42.56	ND	0.00	42.78	5247.56	DRY
SB16	02/11/15	42.55	ND	0.00	42.78	5247.56	DRY
SB16	05/18/15	42.50	ND	0.00	42.78	5247.56	DRY
SB16	08/25/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned					
SB16R	02/21/14	46.69	46.16	0.53	63.30	5247.81	5201.51
SB16R	05/16/14	46.59	ND	0.00	63.30	5247.81	5201.22
SB16R	08/27/14	45.94	45.85	0.09	63.30	5247.81	5201.93
SB16R	11/18/14	46.61	46.58	0.03	63.30	5247.81	5201.22
SB16R	02/11/15	46.85	46.48	0.37	63.30	5247.81	5201.23
SB16R	05/18/15	44.09	43.95	0.14	63.30	5245.56	5201.57
SB16R	08/25/15	42.65	41.29	1.36	60.35	5245.56	5203.93
SB16R	11/20/15	42.82	42.04	0.78	60.35	5246.56	5204.32
SB16R	02/19/16	42.81	41.57	1.24	60.35	5246.56	5204.68
SB16R	05/20/16	ND ²	45.19	> 0.51	45.70	5249.19	DRY ²
SB16R	08/12/16	ND ²	45.29	> 0.66	45.95	5249.19	DRY ²
SB16R	11/18/16	ND ²	45.14	> 1.28	46.42	5249.19	DRY ²
SB16R	02/13/17	ND ²	45.34	> 1.42	46.76	5249.19	DRY ²
SB16R	05/09/17	Removed From Groundwater Monitoring Program - Well Casing Damaged					
SB16R2	08/22/17	45.23	ND	0.00	62.42	Not Surveyed	
SB16R2	11/17/17	44.69	44.65	0.04	NM	5248.93	5204.27
SB16R2	02/27/18	44.77	44.57	0.20	NM	5248.93	5204.31
SB17	02/21/14	43.97	ND	0.00	50.40	5244.55	5200.58
SB17	05/16/14	42.99	ND	0.00	50.40	5244.55	5201.56
SB17	08/27/14	41.19	ND	0.00	50.40	5244.55	5203.36
SB17	11/18/14	40.81	ND	0.00	50.40	5244.55	5203.74
SB17	02/11/15	40.65	ND	0.00	50.40	5244.55	5203.90
SB17	05/18/15	40.40	ND	0.00	50.40	5244.55	5204.15
SB17	08/25/15	38.37	ND	0.00	48.44	5242.72	5204.35
SB17	11/20/15	38.22	ND	0.00	48.44	5243.72	5205.50
SB17	02/19/16	37.59	ND	0.00	48.44	5243.72	5206.13

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB17	05/20/16	36.77	ND	0.00	48.44	5243.72	5206.95
SB17	08/12/16	36.33	ND	0.00	48.43	5243.72	5207.39
SB17	11/18/16	35.52	ND	0.00	48.50	5243.72	5208.20
SB17	02/13/17	34.42	ND	0.00	48.43	5243.72	5209.30
SB17	05/09/17	33.59	ND	0.00	48.42	5243.72	5210.13
SB17	08/22/17	32.97	ND	0.00	48.44	5243.72	5210.75
SB17	11/17/17	32.15	ND	0.00	48.44	5243.72	5211.57
SB17	02/23/18	31.33	ND	0.00	48.50	5243.72	5212.39
SB18	02/21/14	40.95	ND	0.00	50.38	5245.80	5204.85
SB18	05/16/14	40.98	ND	0.00	50.38	5245.80	5204.82
SB18	08/27/14	41.22	ND	0.00	50.38	5245.80	5204.58
SB18	11/18/14	41.22	ND	0.00	50.38	5245.80	5204.58
SB18	02/11/15	41.12	ND	0.00	50.38	5245.80	5204.68
SB18	05/18/15	37.38	ND	0.00	48.18	5243.72	5206.34
SB18	08/25/15	38.55	ND	0.00	48.19	5243.72	5205.17
SB18	11/20/15	38.14	ND	0.00	48.19	5244.72	5206.58
SB18	02/19/16	37.44	ND	0.00	48.09	5244.72	5207.28
SB18	05/20/16	36.69	ND	0.00	48.09	5244.72	5208.03
SB18	08/12/16	36.51	ND	0.00	48.22	5244.72	5208.21
SB18	11/18/16	35.87	ND	0.00	48.23	5244.72	5208.85
SB18	02/13/17	34.94	ND	0.00	48.18	5244.72	5209.78
SB18	05/09/17	34.12	ND	0.00	48.20	5244.72	5210.60
SB18	08/22/17	33.60	ND	0.00	48.20	5244.72	5211.12
SB18	11/17/17	32.77	ND	0.00	NM	5244.72	5211.95
SB18	02/23/18	32.01	ND	0.00	NM	5244.72	5212.71
SB19	02/21/14	43.53	ND	0.00	50.41	5246.58	5203.05
SB19	05/16/14	42.65	ND	0.00	50.41	5246.58	5203.93
SB19	08/27/14	41.44	ND	0.00	50.41	5246.58	5205.14
SB19	11/18/14	41.08	ND	0.00	50.41	5246.58	5205.50
SB19	02/11/15	40.81	ND	0.00	50.41	5246.58	5205.77
SB19	05/18/15	38.40	ND	0.00	48.37	5244.65	5206.25
SB19	08/25/15	38.30	ND	0.00	48.11	5244.65	5206.35
SB19	11/20/15	38.06	ND	0.00	48.11	5245.65	5207.59
SB19	02/19/16	37.23	ND	0.00	48.11	5245.65	5208.42
SB19	05/20/16	36.50	ND	0.00	48.11	5245.65	5209.15
SB19	08/12/16	36.24	ND	0.00	48.13	5245.65	5209.41
SB19	11/18/16	35.47	ND	0.00	48.25	5245.65	5210.18
SB19	02/13/17	34.29	ND	0.00	48.13	5245.65	5211.36
SB19	05/09/17	33.50	ND	0.00	48.12	5245.65	5212.15
SB19	08/22/17	32.79	ND	0.00	48.14	5245.65	5212.86
SB19	11/17/17	32.16	ND	0.00	48.13	5245.65	5213.49
SB19	02/23/18	31.43	ND	0.00	48.21	5245.65	5214.22

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB20	02/21/14	47.62	ND	0.00	50.33	5247.52	5199.90
SB20	05/16/14	47.13	ND	0.00	50.33	5247.52	5200.39
SB20	08/27/14	46.44	ND	0.00	50.33	5247.52	5201.08
SB20	11/18/14	46.07	ND	0.00	50.33	5247.52	5201.45
SB20	02/11/15	45.94	ND	0.00	50.33	5247.52	5201.58
SB20	05/18/15	43.50	ND	0.00	48.10	5245.40	5201.90
SB20	08/25/15	43.44	ND	0.00	48.10	5245.40	5201.96
SB20	11/20/15	40.08	ND	0.00	48.10	5246.40	5206.32
SB20	02/19/16	34.31	ND	0.00	48.10	5246.40	5212.09
SB20	05/20/16	42.79	ND	0.00	51.31	5248.62	5205.83
SB20	08/12/16	44.06	ND	0.00	51.30	5248.62	5204.56
SB20	11/18/16	44.46	ND	0.00	51.34	5248.62	5204.16
SB20	02/13/17	44.19	ND	0.00	51.29	5248.62	5204.43
SB20	05/09/17	43.67	ND	0.00	51.30	5248.62	5204.95
SB20	08/22/17	43.10	ND	0.00	51.29	5248.62	5205.52
SB20	11/17/17	42.63	ND	0.00	51.29	5248.62	5205.99
SB20	02/23/18	41.99	ND	0.00	51.33	5248.62	5206.63
SB20R	02/21/14	ND	ND	0.00	61.05	5247.80	DRY
SB20R	05/16/14	ND	ND	0.00	61.05	5247.80	DRY
SB20R	08/27/14	ND	ND	0.00	61.05	5247.80	DRY
SB20R	11/18/14	60.50	ND	0.00	61.05	5247.80	5187.30
SB20R	02/11/15	59.78	ND	0.00	61.05	5247.80	5188.02
SB20R	05/18/15	58.91	ND	0.00	61.05	5247.80	5188.89
SB20R	08/25/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned					
SB21	02/21/14	47.54	46.21	1.33	49.30	5248.31	5201.77
SB21	05/16/14	47.68	45.76	1.92	49.30	5248.31	5202.07
SB21	08/27/14	ND	46.10	> 1.72	47.82	5248.31	DRY
SB21	11/18/14	ND	46.22	> 1.60	47.82	5248.31	DRY
SB21	02/11/15	ND	46.52	> 1.38	47.90	5248.31	DRY
SB21	05/18/15	45.25	44.76	0.49	45.70	5246.33	DRY
SB21	08/25/15	45.39	43.65	1.74	45.70	5246.33	DRY
SB21	11/20/15	44.63	42.25	2.38	45.70	5246.33	5203.48
SB21	02/19/16	42.85	ND	TRACE	45.70	5246.33	5203.48
SB21	05/20/16	47.44	47.01	0.43	49.15	5249.71	5202.59
SB21	08/12/16	47.26	46.26 ³	1.00 ³	49.14	5249.71	5203.20
SB21	11/18/16	48.13	46.96	1.17	NM	5249.71	5203.20
SB21	02/13/17	48.59	46.93	1.66	NM	5249.71	5202.36
SB21	05/09/17	49.23	47.18	2.05	49.59	5250.32	5202.63
SB21	08/22/17	49.39	46.64	2.75	NM	5250.32	5202.99
SB21	11/17/17	47.56	47.45	0.11	NM	5250.32	5202.84
SB21	02/23/18	47.95	47.14	0.81	NM	5250.32	5202.98
SB22	02/21/14	50.07	ND	0.00	50.30	5250.64	DRY

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB22	05/16/14	50.09	ND	0.00	50.30	5250.64	DRY
SB22	08/27/14	50.05	ND	0.00	50.30	5250.64	DRY
SB22	11/18/14	49.94	ND	0.00	50.30	5250.64	DRY
SB22	02/11/15	50.10	ND	0.00	50.30	5250.64	DRY
SB22	05/18/15	50.03	ND	0.00	50.30	5250.64	DRY
SB22	08/25/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned					
SB22R	02/21/14	50.03	ND	0.00	63.07	5250.65	5200.62
SB22R	05/16/14	50.07	ND	0.00	63.07	5250.65	5200.58
SB22R	08/27/14	49.94	ND	0.00	63.07	5250.65	5200.71
SB22R	11/18/14	49.92	ND	0.00	63.07	5250.65	5200.73
SB22R	02/11/15	50.32	ND	0.00	63.07	5250.65	5200.33
SB22R	05/18/15	47.15	ND	0.00	59.89	5247.58	5200.43
SB22R	08/25/15	48.92	ND	0.00	59.90	5247.58	5198.66
SB22R	11/20/15	46.44	ND	0.00	59.90	5248.58	5202.14
SB22R	02/19/16	45.63	ND	0.00	59.90	5248.58	5202.95
SB22R	05/20/16	49.55	ND	0.00	63.39	5251.08	5201.53
SB22R	08/12/16	49.76	ND	0.00	63.39	5251.08	5201.32
SB22R	11/18/16	49.58	ND	0.00	63.44	5251.08	5201.50
SB22R	02/13/17	49.86	ND	0.00	63.39	5251.08	5201.22
SB22R	05/09/17	49.55	ND	0.00	63.40	5251.08	5201.53
SB22R	08/22/17	49.47	ND	0.00	63.40	5251.08	5201.61
SB22R	11/17/17	48.96	ND	0.00	63.39	5251.08	5202.12
SB22R	02/23/18	49.07	ND	0.00	63.46	5251.08	5202.01
SB23	02/21/14	48.75	48.70	0.05	50.61	5249.95	5201.24
SB23	05/16/14	48.83	48.75	0.08	50.61	5249.95	5201.18
SB23	08/27/14	49.06	48.64	0.42	50.61	5249.95	5201.21
SB23	11/18/14	49.16	48.62	0.54	50.61	5249.95	5201.20
SB23	02/11/15	49.65	48.81	0.84	50.61	5249.95	5200.93
SB23	05/18/15	45.92	45.35	0.57	47.09	5246.61	5201.12
SB23	08/25/15	ND	ND	0.00	43.30	5246.61	DRY
SB23	11/20/15	ND	ND	0.00	43.30	5247.61	DRY
SB23	02/19/16	ND	ND	0.00	43.30	5247.61	DRY
SB23	05/20/16	ND	ND	0.00	41.38	5249.88	DRY
SB23	08/12/16	ND	ND	0.00	41.37	5249.88	DRY
SB23	11/18/16	ND	ND	0.00	41.41	5249.88	DRY
SB23	02/13/17	ND	ND	0.00	41.38	5249.88	DRY
SB23	05/09/17	Removed From Groundwater Monitoring Program - Plugged and Abandoned					
SB23R	05/09/17	48.23	ND	0.00	60.65	5250.34	5202.11
SB23R	08/22/17	48.42	47.98	0.44	60.66	5250.34	5202.25
SB23R	11/17/17	47.39	ND	0.00	60.65	5250.34	5202.95
SB23R	02/23/18	47.81	47.50	0.31	NM	5250.34	5202.76
SB24	02/21/14	48.47	ND	0.00	49.82	5249.46	5200.99

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB24	05/16/14	48.35	ND	0.00	49.82	5249.46	5201.11
SB24	08/27/14	48.43	ND	0.00	49.82	5249.46	5201.03
SB24	11/18/14	48.33	ND	0.00	49.82	5249.46	5201.13
SB24	02/11/15	48.61	ND	0.00	49.82	5249.46	5200.85
SB24	05/18/15	48.66	ND	0.00	49.82	5249.46	5200.80
SB24	08/25/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned					
SB24R	02/21/14	49.08	ND	0.00	62.22	5250.04	5200.96
SB24R	05/16/14	48.86	ND	0.00	62.22	5250.04	5201.18
SB24R	08/27/14	48.96	ND	0.00	62.22	5250.04	5201.08
SB24R	11/18/14	48.85	ND	0.00	62.22	5250.04	5201.19
SB24R	02/11/15	49.20	ND	0.00	62.22	5250.04	5200.84
SB24R	05/18/15	46.90	ND	0.00	59.83	5247.80	5200.90
SB24R	08/25/15	46.78	ND	0.00	59.84	5247.80	5201.02
SB24R	11/20/15	46.52	ND	0.00	59.84	5248.80	5202.28
SB24R	02/19/16	46.38	ND	0.00	59.84	5248.80	5202.42
SB24R	05/20/16	46.19	ND	0.00	59.84	5248.80	5202.61
SB24R	08/12/16	46.52	ND	0.00	59.85	5248.80	5202.28
SB24R	11/18/16	46.51	ND	0.00	59.97	5248.80	5202.29
SB24R	02/13/17	46.39	ND	0.00	59.83	5248.80	5202.41
SB24R	05/09/17	46.13	ND	0.00	59.85	5248.80	5202.67
SB24R	08/22/17	46.17	ND	0.00	59.87	5248.80	5202.63
SB24R	11/17/17	45.51	ND	0.00	NM	5248.80	5203.29
SB24R	02/23/18	45.74	ND	0.00	NM	5248.80	5203.06
SB25	02/21/14	50.19	ND	0.00	50.41	5249.20	DRY
SB25	05/16/14	50.15	ND	0.00	50.41	5249.20	DRY
SB25	08/27/14	50.20	ND	0.00	50.41	5249.20	DRY
SB25	11/18/14	50.22	ND	0.00	50.41	5249.20	DRY
SB25	02/11/15	50.22	ND	0.00	50.41	5249.20	DRY
SB25	05/18/15	50.20	ND	0.00	50.41	5249.20	DRY
SB25	08/25/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned					
SB25R	02/21/14	51.75	ND	0.00	67.30	5249.39	5197.64
SB25R	05/16/14	51.55	ND	0.00	67.30	5249.39	5197.84
SB25R	08/27/14	51.65	ND	0.00	67.30	5249.39	5197.74
SB25R	11/18/14	51.58	ND	0.00	67.30	5249.39	5197.81
SB25R	02/11/15	51.96	ND	0.00	67.30	5249.39	5197.43
SB25R	05/18/15	49.60	ND	0.00	64.97	5247.15	5197.55
SB25R	08/25/15	49.31	ND	0.00	65.00	5247.15	5197.84
SB25R	11/20/15	48.98	ND	0.00	65.00	5248.15	5199.17
SB25R	02/19/16	48.56	ND	0.00	65.00	5248.15	5199.59
SB25R	05/20/16	48.54	ND	0.00	65.00	5248.15	5199.61
SB25R	08/12/16	48.35	ND	0.00	65.00	5248.15	5199.80
SB25R	11/18/16	47.96	ND	0.00	65.05	5248.15	5200.19

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB25R	02/13/17	48.02	ND	0.00	64.99	5248.15	5200.13
SB25R	05/09/17	47.71	ND	0.00	65.00	5248.15	5200.44
SB25R	08/22/17	47.74	ND	0.00	65.00	5248.15	5200.41
SB25R	11/17/17	47.43	ND	0.00	65.00	5248.15	5200.72
SB25R	02/23/18	47.60	ND	0.00	65.06	5248.15	5200.55
SB26	02/21/14	43.87	ND	0.00	50.35	5246.92	5203.05
SB26	05/16/14	43.65	ND	0.00	50.35	5246.92	5203.27
SB26	08/27/14	43.63	ND	0.00	50.35	5246.92	5203.29
SB26	11/18/14	43.45	ND	0.00	50.35	5246.92	5203.47
SB26	02/11/15	43.68	ND	0.00	50.35	5246.92	5203.24
SB26	05/18/15	43.59	ND	0.00	50.35	5246.92	5203.33
SB26	08/25/15	41.24	ND	0.00	48.38	5245.12	5203.88
SB26	11/20/15	40.29	ND	0.00	48.38	5246.12	5205.83
SB26	02/19/16	39.89	ND	0.00	48.38	5246.12	5206.23
SB26	05/20/16	39.62	ND	0.00	48.38	5246.12	5206.50
SB26	08/12/16	39.43	ND	0.00	48.36	5246.12	5206.69
SB26	11/18/16	38.80	ND	0.00	48.45	5246.12	5207.32
SB26	02/13/17	38.39	ND	0.00	48.28	5246.12	5207.73
SB26	05/09/17	37.94	ND	0.00	48.34	5246.12	5208.18
SB26	08/22/17	37.75	ND	0.00	48.32	5246.12	5208.37
SB26	11/17/17	36.85	ND	0.00	NM	5246.12	5209.27
SB26	02/23/18	36.57	ND	0.00	NM	5246.12	5209.55
SB27	02/21/14	50.27	ND	0.00	50.52	5250.91	DRY
SB27	05/16/14	50.29	ND	0.00	50.52	5250.91	DRY
SB27	08/27/14	50.30	ND	0.00	50.52	5250.91	DRY
SB27	11/18/14	50.30	ND	0.00	50.52	5250.91	DRY
SB27	02/11/15	50.31	ND	0.00	50.52	5250.91	DRY
SB27	05/18/15	50.29	ND	0.00	50.52	5250.91	DRY
SB27	08/25/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned					
SB27R	02/21/14	53.59	ND	0.00	67.51	5251.23	5197.64
SB27R	05/16/14	53.36	ND	0.00	67.51	5251.23	5197.87
SB27R	08/27/14	53.48	ND	0.00	67.51	5251.23	5197.75
SB27R	11/18/14	53.39	ND	0.00	67.51	5251.23	5197.84
SB27R	02/11/15	53.79	ND	0.00	67.51	5251.23	5197.44
SB27R	05/18/15	51.35	ND	0.00	65.11	5248.92	5197.57
SB27R	08/25/15	51.22	ND	0.00	65.13	5248.92	5197.70
SB27R	11/20/15	50.98	ND	0.00	65.13	5249.92	5198.94
SB27R	02/19/16	50.83	ND	0.00	65.13	5249.92	5199.09
SB27R	05/20/16	50.62	ND	0.00	65.13	5249.92	5199.30
SB27R	08/12/16	50.84	ND	0.00	65.00	5249.92	5199.08
SB27R	11/18/16	50.82	ND	0.00	65.14	5249.92	5199.10
SB27R	02/13/17	50.52	ND	0.00	64.99	5249.92	5199.40

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB27R	05/09/17	50.27	ND	0.00	64.96	5249.92	5199.65
SB27R	08/22/17	54.10	ND	0.00	64.93	5249.92	5195.82
SB27R	11/17/17	49.72	ND	0.00	64.92	5249.92	5200.20
SB27R	02/23/18	50.05	ND	0.00	65.17	5249.92	5199.87
SB28	02/21/14	50.34	ND	0.00	50.56	5251.71	DRY
SB28	05/16/14	50.35	ND	0.00	50.56	5251.71	DRY
SB28	08/27/14	50.36	ND	0.00	50.56	5251.71	DRY
SB28	11/18/14	50.36	ND	0.00	50.56	5251.71	DRY
SB28	02/11/15	50.36	ND	0.00	50.56	5251.71	DRY
SB28	05/18/15	50.34	ND	0.00	50.56	5251.71	DRY
SB28	08/25/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned					
SB28R	02/21/14	50.98	ND	0.00	63.10	5251.40	5200.42
SB28R	05/16/14	50.84	ND	0.00	63.10	5251.40	5200.56
SB28R	08/27/14	50.95	ND	0.00	63.10	5251.40	5200.45
SB28R	11/18/14	50.88	ND	0.00	63.10	5251.40	5200.52
SB28R	02/11/15	51.14	ND	0.00	63.10	5251.40	5200.26
SB28R	05/18/15	48.72	ND	0.00	60.67	5249.05	5200.33
SB28R	08/25/15	48.74	ND	0.00	60.68	5249.05	5200.31
SB28R	11/20/15	48.45	ND	0.00	60.68	5250.05	5201.60
SB28R	02/19/16	48.31	ND	0.00	60.68	5250.05	5201.74
SB28R	05/20/16	48.15	ND	0.00	60.68	5250.05	5201.90
SB28R	08/12/16	48.44	ND	0.00	60.68	5250.05	5201.61
SB28R	11/18/16	ND	ND	0.00	25.22	5250.05	DRY
SB28R	02/13/17	48.36	ND	0.00	60.66	5250.05	5201.69
SB28R	05/09/17	48.12	ND	0.00	60.68	5250.05	5201.93
SB28R	08/22/17	48.18	ND	0.00	60.69	5250.05	5201.87
SB28R	11/17/17	47.59	ND	0.00	60.69	5250.05	5202.46
SB28R	02/23/18	47.79	ND	0.00	60.80	5250.05	5202.26
SB29	02/21/14	45.24	ND	0.00	60.46	5248.09	5202.85
SB29	05/16/14	45.10	ND	0.00	60.46	5248.09	5202.99
SB29	08/27/14	45.02	ND	0.00	60.46	5248.09	5203.07
SB29	11/18/14	44.89	ND	0.00	60.46	5248.09	5203.20
SB29	02/11/15	45.09	ND	0.00	60.46	5248.09	5203.00
SB29	05/18/15	42.69	ND	0.00	58.05	5245.86	5203.17
SB29	08/25/15	42.40	ND	0.00	57.79	5245.86	5203.46
SB29	11/20/15	41.67	ND	0.00	57.79	5246.86	5205.19
SB29	02/19/16	41.16	ND	0.00	57.79	5246.86	5205.70
SB29	05/20/16	40.92	ND	0.00	57.79	5246.86	5205.94
SB29	08/12/16	41.00	ND	0.00	57.54	5246.86	5205.86
SB29	11/18/16	40.59	ND	0.00	57.69	5246.86	5206.27
SB29	02/13/17	40.28	ND	0.00	57.63	5246.86	5206.58
SB29	05/09/17	39.81	ND	0.00	57.63	5246.86	5207.05

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB29	08/22/17	39.72	ND	0.00	57.65	5246.86	5207.14
SB29	11/17/17	38.90	ND	0.00	NM	5246.86	5207.96
SB29	02/23/18	38.76	ND	0.00	NM	5246.86	5208.10
SB30	02/21/14	47.77	44.80	2.97	61.00	5246.27	5200.73
SB30	05/16/14	47.19	44.70	2.49	61.00	5246.27	5200.95
SB30	08/27/14	46.24	44.82	1.42	61.00	5246.27	5201.10
SB30	11/18/14	46.02	45.79	0.23	61.00	5246.27	5200.43
SB30	02/11/15	47.22	45.82	1.40	61.00	5246.27	5200.10
SB30	05/18/15	47.58	45.28	2.30	61.00	5246.27	5200.42
SB30	08/25/15	48.56	40.95	7.61	59.65	5245.33	5202.48
SB30	11/20/15	48.14	40.07	8.07	59.65	5246.33	5204.24
SB30	02/19/16	39.60	39.59	0.01	59.65	5246.33	5206.74
SB30	05/20/16	52.25	44.05	8.20	63.68	5249.32	5203.22
SB30	08/12/16	52.21	44.35	7.86	63.66	5249.32	5203.01
SB30	11/18/16	51.74	44.42	7.32	NM	5249.32	5203.07
SB30	02/13/17	51.19	44.70	6.49	NM	5249.32	5203.00
SB30	05/09/17	NM	NM	NM	NM	5249.32	NM
SB30	08/22/17	48.59	46.15	2.44	NM	5249.32	5202.56
SB30	11/17/17	45.35	45.22	0.13	NM	5249.32	5204.07
SB30	02/23/18	48.80	44.47	4.33	NM	5249.32	5203.77
SB31	02/21/14	50.11	48.01	2.10	64.30	5249.60	5201.06
SB31	05/16/14	51.47	48.07	3.40	64.30	5249.60	5200.68
SB31	08/27/14	49.65	47.72	1.93	64.30	5249.60	5201.40
SB31	11/18/14	50.76	50.36	0.40	64.30	5249.60	5199.14
SB31	02/11/15	49.88	48.94	0.94	64.30	5249.60	5200.42
SB31	05/18/15	50.22	48.44	1.78	64.30	5249.60	5200.71
SB31	08/25/15	49.39	42.84	6.55	59.26	5245.93	5201.45
SB31	11/20/15	49.95	41.61	8.34	59.26	5246.93	5203.24
SB31	02/19/16	41.09	40.96	0.13	59.26	5246.93	5205.94
SB31	05/20/16	54.20	45.00	9.20	63.13	5249.81	5202.51
SB31	08/12/16	53.61	45.16	8.45	63.10	5249.81	5202.54
SB31	11/18/16	53.22	45.13	8.09	NM	5249.81	5202.66
SB31	02/13/17	53.89	45.36	8.53	NM	5249.81	5202.32
SB31	05/09/17	NM	NM	NM	NM	5249.81	NM
SB31	08/22/17	48.38	47.62	0.76	NM	5249.81	5202.00
SB31	11/17/17	47.87	45.86	2.01	NM	5249.81	5203.45
SB31	02/23/18	47.77	47.24	0.53	NM	5249.81	5202.44
SB32	02/21/14	48.27	ND	0.00	62.39	5249.31	5201.04
SB32	05/16/14	48.18	ND	0.00	62.39	5249.31	5201.13
SB32	08/27/14	48.19	ND	0.00	62.39	5249.31	5201.12
SB32	11/18/14	48.38	ND	0.00	62.39	5249.31	5200.93
SB32	02/11/15	48.83	ND	0.00	62.39	5249.31	5200.48

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB32	05/18/15	45.90	ND	0.00	59.62	5246.64	5200.74
SB32	08/25/15	ND	ND	0.00	41.08	5246.64	DRY
SB32	11/20/15	ND	ND	0.00	41.08	5247.64	DRY
SB32	02/19/16	ND	ND	0.00	41.08	5247.64	DRY
SB32	05/20/16	ND	ND	0.00	42.05	5250.72	DRY
SB32	08/12/16	ND	ND	0.00	42.06	5250.72	DRY
SB32	11/18/16	ND	ND	0.00	42.14	5250.72	DRY
SB32	02/13/17	ND	ND	0.00	42.06	5250.72	DRY
SB32	05/09/17	ND	ND	0.00	42.07	5250.72	DRY
SB32	08/22/17	ND	ND	0.00	42.09	5250.72	DRY
SB32	11/17/17	ND	ND	0.00	42.07	5250.72	DRY
SB32	02/23/18	ND	ND	0.00	42.15	5250.72	DRY
SB33	02/21/14	62.26	ND	0.00	62.55	5246.16	DRY
SB33	05/16/14	62.02	ND	0.00	62.55	5246.16	5184.14
SB33	08/27/14	59.51	ND	0.00	62.55	5246.16	5186.65
SB33	11/18/14	57.49	ND	0.00	62.55	5246.16	5188.67
SB33	02/11/15	55.64	ND	0.00	62.55	5246.16	5190.52
SB33	05/18/15	53.86	ND	0.00	60.39	5246.16	5192.30
SB33	08/25/15	50.35	ND	0.00	60.69	5244.21	5193.86
SB33	11/20/15	49.16	ND	0.00	60.69	5245.21	5196.05
SB33	02/19/16	47.69	ND	0.00	60.69	5245.21	5197.52
SB33	05/20/16	46.33	ND	0.00	60.69	5245.21	5198.88
SB33	08/12/16	44.47	ND	0.00	60.60	5245.21	5200.74
SB33	11/18/16	41.65	ND	0.00	60.67	5245.21	5203.56
SB33	02/13/17	39.69	ND	0.00	60.60	5245.21	5205.52
SB33	05/09/17	38.56	ND	0.00	60.60	5245.21	5206.65
SB33	08/22/17	37.57	ND	0.00	60.60	5245.21	5207.64
SB33	11/17/17	37.32	ND	0.00	NM	5245.21	5207.89
SB33	02/23/18	37.38	ND	0.00	NM	5245.21	5207.83
SB34	02/21/14	54.88	ND	0.00	62.80	5252.59	5197.71
SB34	05/16/14	54.72	ND	0.00	62.80	5252.59	5197.87
SB34	08/27/14	54.78	ND	0.00	62.80	5252.59	5197.81
SB34	11/18/14	54.65	ND	0.00	62.80	5252.59	5197.94
SB34	02/11/15	55.04	ND	0.00	62.80	5252.59	5197.55
SB34	05/18/15	52.58	ND	0.00	60.36	5250.19	5197.61
SB34	08/25/15	52.47	ND	0.00	60.40	5250.19	5197.72
SB34	11/20/15	52.19	ND	0.00	60.40	5251.19	5199.00
SB34	02/19/16	52.13	ND	0.00	60.40	5251.19	5199.06
SB34	05/20/16	51.95	ND	0.00	60.40	5251.19	5199.24
SB34	08/12/16	52.22	ND	0.00	60.38	5251.19	5198.97
SB34	11/18/16	52.17	ND	0.00	60.45	5251.19	5199.02
SB34	02/13/17	52.02	ND	0.00	60.38	5251.19	5199.17

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB34	05/09/17	51.71	ND	0.00	60.39	5251.19	5199.48
SB34	08/22/17	51.86	ND	0.00	63.80	5251.19	5199.33
SB34	11/17/17	51.17	ND	0.00	NM	5251.19	5200.02
SB34	02/23/18	51.53	ND	0.00	NM	5251.19	5199.66
SB35	02/21/14	53.18	ND	0.00	63.40	5250.71	5197.53
SB35	05/16/14	52.97	ND	0.00	63.40	5250.71	5197.74
SB35	08/27/14	53.02	ND	0.00	63.40	5250.71	5197.69
SB35	11/18/14	52.93	ND	0.00	63.40	5250.71	5197.78
SB35	02/11/15	53.35	ND	0.00	63.40	5250.71	5197.36
SB35	05/18/15	50.25	ND	0.00	60.34	5247.79	5197.54
SB35	08/25/15	49.92	ND	0.00	63.40	5247.79	5197.87
SB35	11/20/15	49.67	ND	0.00	63.40	5248.79	5199.12
SB35	02/19/16	49.45	ND	0.00	63.40	5248.79	5199.34
SB35	05/20/16	49.22	ND	0.00	63.40	5248.79	5199.57
SB35	08/12/16	49.22	ND	0.00	60.32	5248.79	5199.57
SB35	11/18/16	49.10	ND	0.00	60.35	5248.79	5199.69
SB35	02/13/17	48.87	ND	0.00	60.34	5248.79	5199.92
SB35	05/09/17	48.51	ND	0.00	60.35	5248.79	5200.28
SB35	08/22/17	48.64	ND	0.00	63.50	5248.79	5200.15
SB35	11/17/17	48.04	ND	0.00	NM	5248.79	5200.75
SB35	02/23/18	48.40	ND	0.00	NM	5248.79	5200.39
SB36	02/21/14	42.65	ND	0.00	63.05	5243.07	5200.42
SB36	05/16/14	42.40	ND	0.00	63.05	5243.07	5200.67
SB36	08/27/14	41.97	ND	0.00	63.05	5243.07	5201.10
SB36	11/18/14	41.76	ND	0.00	63.05	5243.07	5201.31
SB36	02/11/15	41.71	ND	0.00	63.05	5243.07	5201.36
SB36	05/18/15	41.45	ND	0.00	63.05	5243.07	5201.62
SB36	08/25/15	34.09	ND	0.00	59.72	5239.97	5205.88
SB36	11/20/15	32.82	ND	0.00	59.72	5240.97	5208.15
SB36	02/19/16	32.76	ND	0.00	59.75	5240.97	5208.21
SB36	05/20/16	31.31	ND	0.00	59.75	5240.97	5209.66
SB36	08/12/16	30.21	ND	0.00	59.78	5240.97	5210.76
SB36	11/18/16	29.05	ND	0.00	59.89	5240.97	5211.92
SB36	02/13/17	28.62	ND	0.00	59.68	5240.97	5212.35
SB36	05/09/17	32.32	ND	0.00	63.69	5243.94	5211.62
SB36	08/22/17	31.82	ND	0.00	63.66	5243.94	5212.12
SB36	11/17/17	30.84	ND	0.00	63.65	5243.94	5213.10
SB36	02/23/18	30.59	ND	0.00	63.73	5243.94	5213.35
SB37	02/21/14	63.00	ND	0.00	66.40	5249.25	5186.25
SB37	05/16/14	51.38	ND	0.00	66.40	5249.25	5197.87
SB37	08/27/14	48.05	ND	0.00	66.40	5249.25	5201.20
SB37	11/18/14	48.09	ND	0.00	66.40	5249.25	5201.16

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB37	02/11/15	48.36	ND	0.00	66.40	5249.25	5200.89
SB37	05/18/15	48.20	ND	0.00	66.40	5249.25	5201.05
SB37	08/25/15	46.33	ND	0.00	64.81	5246.31	5199.98
SB37	11/20/15	45.58	ND	0.00	64.81	5247.31	5201.73
SB37	02/19/16	45.44	ND	0.00	64.81	5247.31	5201.87
SB37	05/20/16	47.92	47.85	0.07	66.81	5249.79	5201.93
SB37	08/12/16	47.81	47.72	0.09	66.84	5249.79	5202.05
SB37	11/18/16	47.65	47.43	0.22	NM	5249.79	5202.31
SB37	02/13/17	48.35	47.90	0.45	NM	5249.79	5201.78
SB37	05/09/17	47.70	47.38	0.32	66.85	5249.79	5202.33
SB37	08/22/17	47.47	47.15	0.32	NM	5249.79	5202.56
SB37	11/17/17	47.06	46.87	0.19	NM	5249.79	5202.88
SB37	02/23/18	47.20	46.72	0.48	NM	5249.79	5202.95
SB38	02/21/14	40.48	ND	0.00	63.58	5243.61	5203.13
SB38	05/16/14	40.16	ND	0.00	63.58	5243.61	5203.45
SB38	08/27/14	40.32	ND	0.00	63.58	5243.61	5203.29
SB38	11/18/14	40.08	ND	0.00	63.58	5243.61	5203.53
SB38	02/11/15	40.35	ND	0.00	63.58	5243.61	5203.26
SB38	05/18/15	40.31	ND	0.00	63.58	5243.61	5203.30
SB38	08/25/15	35.63	ND	0.00	60.51	5240.73	5205.10
SB38	11/20/15	34.68	ND	0.00	60.51	5241.73	5207.05
SB38	02/19/16	34.39	ND	0.00	60.42	5241.73	5207.34
SB38	05/20/16	33.19	ND	0.00	60.42	5241.73	5208.54
SB38	08/12/16	31.54	ND	0.00	60.34	5241.73	5210.19
SB38	11/18/16	30.69	ND	0.00	60.61	5241.73	5211.04
SB38	02/13/17	29.97	ND	0.00	60.28	5241.73	5211.76
SB38	05/09/17	33.85	ND	0.00	64.49	5244.87	5211.02
SB38	08/22/17	33.49	ND	0.00	64.45	5244.87	5211.38
SB38	11/17/17	32.34	ND	0.00	64.46	5244.87	5212.53
SB38	02/23/18	32.12	ND	0.00	64.75	5244.87	5212.75
SB39	02/21/14	50.54	ND	0.00	61.57	5241.88	5191.34
SB39	05/16/14	45.38	ND	0.00	61.57	5241.88	5196.50
SB39	08/27/14	44.19	ND	0.00	61.57	5241.88	5197.69
SB39	11/18/14	43.98	ND	0.00	61.57	5241.88	5197.90
SB39	02/11/15	44.01	ND	0.00	61.57	5241.88	5197.87
SB39	05/18/15	43.74	ND	0.00	61.57	5241.88	5198.14
SB39	08/25/15	36.44	ND	0.00	59.14	5239.65	5203.21
SB39	11/20/15	36.68	ND	0.00	59.14	5240.65	5203.97
SB39	02/19/16	36.05	ND	0.00	59.11	5240.65	5204.60
SB39	05/20/16	31.67	ND	0.00	59.11	5240.65	5208.98
SB39	08/12/16	30.51	ND	0.00	59.12	5240.65	5210.14
SB39	11/18/16	29.46	ND	0.00	59.15	5240.65	5211.19

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB39	02/13/17	28.66	ND	0.00	59.04	5240.65	5211.99
SB39	05/09/17	32.64	ND	0.00	63.23	5243.84	5211.20
SB39	08/22/17	32.38	ND	0.00	63.13	5243.84	5211.46
SB39	11/17/17	31.64	ND	0.00	63.20	5243.84	5212.20
SB39	02/23/18	31.53	ND	0.00	63.39	5243.84	5212.31
SB40	02/21/14	54.94	ND	0.00	62.83	5240.63	5185.69
SB40	05/16/14	45.58	ND	0.00	62.83	5240.63	5195.05
SB40	08/27/14	40.55	ND	0.00	62.83	5240.63	5200.08
SB40	11/18/14	40.14	ND	0.00	62.83	5240.63	5200.49
SB40	02/11/15	39.79	ND	0.00	62.83	5240.63	5200.84
SB40	05/18/15	38.77	ND	0.00	62.83	5240.63	5201.86
SB40	08/25/15	32.11	ND	0.00	59.71	5237.59	5205.48
SB40	11/20/15	30.30	ND	0.00	59.71	5238.59	5208.29
SB40	02/19/16	28.98	ND	0.00	59.04	5238.59	5209.61
SB40	05/20/16	27.41	ND	0.00	59.04	5238.59	5211.18
SB40	08/12/16	25.87	ND	0.00	58.95	5238.59	5212.72
SB40	11/18/16	25.24	ND	0.00	58.98	5238.59	5213.35
SB40	02/13/17	24.98	ND	0.00	58.82	5238.59	5213.61
SB40	05/09/17	29.16	ND	0.00	62.89	5241.74	5212.58
SB40	08/22/17	28.02	ND	0.00	62.82	5241.74	5213.72
SB40	11/17/17	26.90	ND	0.00	NM	5241.74	5214.84
SB40	02/23/18	27.26	ND	0.00	NM	5241.74	5214.48
SB41	02/21/14	39.90	ND	0.00	62.96	5242.91	5203.01
SB41	05/16/14	39.66	ND	0.00	62.96	5242.91	5203.25
SB41	08/27/14	39.75	ND	0.00	62.96	5242.91	5203.16
SB41	11/18/14	39.59	ND	0.00	62.96	5242.91	5203.32
SB41	02/11/15	39.79	ND	0.00	62.96	5242.91	5203.12
SB41	05/18/15	39.77	ND	0.00	62.96	5242.91	5203.14
SB41	08/25/15	35.69	ND	0.00	59.89	5239.96	5204.27
SB41	11/20/15	34.89	ND	0.00	59.89	5240.96	5206.07
SB41	02/19/16	34.51	ND	0.00	59.84	5240.96	5206.45
SB41	05/20/16	33.31	ND	0.00	59.84	5240.96	5207.65
SB41	08/12/16	31.29	ND	0.00	59.60	5240.96	5209.67
SB41	11/18/16	30.45	ND	0.00	59.74	5240.96	5210.51
SB41	02/13/17	29.82	ND	0.00	59.60	5240.96	5211.14
SB41	05/09/17	33.68	ND	0.00	63.80	5244.16	5210.48
SB41	08/22/17	33.34	ND	0.00	63.80	5244.16	5210.82
SB41	11/17/17	32.09	ND	0.00	NM	5244.16	5212.07
SB41	02/23/18	31.85	ND	0.00	NM	5244.16	5212.31
SB42	02/21/14	41.20	ND	0.00	60.60	5244.36	5203.16
SB42	05/16/14	40.68	ND	0.00	60.60	5244.36	5203.68
SB42	08/27/14	40.80	ND	0.00	60.60	5244.36	5203.56

TABLE 1
GROUNDWATER AND LNAPL ELEVATION DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION



Monitoring Well ID	Date	DTW (ft. BTOC)	DTP (ft. BTOC)	LNAPL Thickness (ft.)	TD ⁴ (ft. BTOC)	Top of Casing Elevation (ft. AMSL)	Groundwater Elevation* (ft. AMSL)
SB42	11/18/14	40.57	ND	0.00	60.60	5244.36	5203.79
SB42	02/11/15	40.78	ND	0.00	60.60	5244.36	5203.58
SB42	05/18/15	40.74	ND	0.00	60.60	5244.36	5203.62
SB42	08/25/15	38.61	ND	0.00	59.23	5243.19	5204.58
SB42	11/20/15	37.53	ND	0.00	59.23	5244.19	5206.66
SB42	02/19/16	37.18	ND	0.00	59.21	5244.19	5207.01
SB42	05/20/16	36.85	ND	0.00	59.21	5244.19	5207.34
SB42	08/12/16	36.35	ND	0.00	59.22	5244.19	5207.84
SB42	11/18/16	35.59	ND	0.00	59.30	5244.19	5208.60
SB42	02/13/17	35.15	ND	0.00	59.23	5244.19	5209.04
SB42	05/09/17	34.69	ND	0.00	59.22	5244.19	5209.50
SB42	08/22/17	34.40	ND	0.00	59.22	5244.19	5209.79
SB42	11/17/17	33.53	ND	0.00	NM	5244.19	5210.66
SB42	02/23/18	33.13	ND	0.00	NM	5244.19	5211.06

Notes:

DTW = Depth to water

DTP = Depth to Product (LNAPL)

ft. BTOC = Feet below top of well casing

ft. AMSL = Feet above mean sea level

TD = Total depth of well below top of well casing (based on the most recent measurement)

LNAPL = Light non-aqueous phase liquid

ND = Not detected

NM = Not measured

DRY = Well contained less than 0.5 feet of water

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

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

LNAPL relative density was measured to be approximately 0.75

¹ LNAPL detected in groundwater sample collected on 02/22/16

² Well SB16R obstructed above oil/water interface, groundwater not encountered above obstruction

³ LNAPL thickness is approximate, checked with bailer

⁴ Total Depth of Well is only measured for wells that are to be sampled.

This table presents data collected by Tasman Geosciences. Historical data is presented in Attachment A of the Form 27 Site Assessment Report (COGCC Document #2148980)

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
PR01	03/07/14 ¹	10.98	6.960	6.63	-132.0	14.60
PR01	05/19/14		Removed From Groundwater Monitoring Program - LNAPL Recovery Well			
PR02	03/07/14 ¹	10.09	5.560	6.71	-72.9	11.56
PR02	05/19/14		Removed From Groundwater Monitoring Program - LNAPL Recovery Well			
PR03	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR04	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR05	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR06	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR07	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR08	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR09	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR10	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR11	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR12	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR13	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR14	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR15	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR16	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR17	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR18	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR19	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR20	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR21	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR22	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR23	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR24	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR25	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
PR26	11/21/14		Not in Groundwater Monitoring Program - LNAPL Recovery Well			
SB01	02/24/14	12.41	5.240	7.16	92.2	0.56
SB01	05/19/14		Removed From Groundwater Monitoring Program - Submerged Well Screen			
SB01	08/27/15		Removed From Groundwater Monitoring Program - Plugged and Abandoned			
SB02	02/24/14	12.52	3.222	7.25	47.1	0.25
SB02	05/19/14		Removed From Groundwater Monitoring Program - Submerged Well Screen			
SB02	08/27/15		Removed From Groundwater Monitoring Program - Plugged and Abandoned			
SB03	02/24/14	12.55	1.941	7.44	70.0	0.21
SB03	05/19/14	12.57	2.135	7.00	207.5	1.61
SB03	08/29/14	12.41	2.004	7.39	126.0	0.03
SB03	11/21/14	12.53	2.188	8.08	-182.9	0.96
SB03	02/13/15	12.34	1.881	7.30	27.6	0.60

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB03	05/21/15	12.20	1.814	7.09	158.8	0.55
SB03	08/27/15	12.61	2.068	7.28	12.0	0.20
SB03	11/24/15	12.01	2.139	6.65	-15.4	0.47
SB03	02/22/16	12.22	2.363	7.68	-49.4	0.23
SB03	05/23/16	12.46	2.380	7.06	-36.4	0.28
SB03	08/15/16	13.21	2.151	7.33	100.1	0.22
SB03	11/21/16	12.20	2.394	7.31	-1.8	0.93
SB03	02/16/17	12.40	3.026	7.34	112.6	0.50
SB03	05/09/17	16.55	3.030	6.68	96.6	2.13
SB03	08/24/17	13.52	2.980	7.72	97.6	0.03
SB03	11/20/17	13.40	3.100	6.96	125.6	4.72
SB03	02/26/18	11.67	3.290	7.28	39.0	4.90
SB04	02/24/14	12.00	3.138	7.29	71.3	0.16
SB04	05/19/14	12.81	3.097	7.08	224.5	0.45
SB04	08/29/14	12.37	3.083	7.65	155.6	0.16
SB04	11/21/14	12.29	3.076	7.60	-7.6	0.47
SB04	02/13/15	12.34	3.018	7.34	50.5	0.99
SB04	05/21/15	12.24	2.953	7.06	120.8	0.36
SB04	08/27/15	12.69	3.054	7.84	52.7	0.13
SB04	11/24/15	12.11	2.198	6.77	-64.4	0.27
SB04	02/22/16	12.15	2.317	7.31	-120.9	0.23
SB04	05/23/16	12.55	2.363	6.56	-166.8	1.07
SB04	08/15/16	12.45	2.597	7.33	-58.5	0.81
SB04	11/21/16	12.16	2.131	7.20	-112.0	0.25
SB04	02/16/17	12.30	3.003	7.40	-76.4	0.60
SB04	05/09/17	17.47	1.830	7.28	-90.4	0.56
SB04	08/24/17	13.40	2.070	7.69	-184.2	0.03
SB04	11/20/17	13.50	2.170	7.29	-160.9	0.25
SB04	02/26/18	11.22	2.350	7.41	55.0	0.14
SB05	03/07/14 ¹	11.20	6.192	6.43	-152.9	3.55
SB05	05/19/14			Not Measured - LNAPL Present		
SB05	08/29/14			Not Measured - LNAPL Present		
SB05	11/21/14			Not Measured - LNAPL Present		
SB05	02/13/15			Not Measured - LNAPL Present		
SB05	05/21/15			Not Measured - LNAPL Present		
SB05	08/27/15			Not Measured - LNAPL Present		
SB05	11/24/15			Not Measured - LNAPL Present		
SB05	02/22/16			Not Measured - LNAPL Present		
SB05	05/23/16			Not Measured - LNAPL Present		

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB05	08/15/16			Not Measured - LNAPL Present		
SB05	11/21/16			Not Measured - LNAPL Present		
SB05	02/16/17			Not Measured - LNAPL Present		
SB05	05/09/17			Not Measured - LNAPL Present		
SB05	08/24/17			Not Measured - LNAPL Present		
SB05	11/20/17			Not Measured - LNAPL Present		
SB05	02/26/18			Not Measured - LNAPL Present		
SB06	02/24/14	12.57	3.446	7.20	144.4	0.34
SB06	05/19/14	12.74	3.933	6.99	268.9	0.19
SB06	08/29/14	12.54	3.952	7.22	156.0	0.04
SB06	11/21/14	12.46	3.767	7.60	153.6	2.25
SB06	02/13/15	12.48	3.879	6.99	54.2	0.22
SB06	05/21/15	12.52	3.765	6.91	3.4	0.08
SB06	08/27/15	12.51	5.039	7.17	101.4	0.12
SB06	11/24/15	12.19	5.367	6.62	1.2	0.38
SB06	02/22/16	12.31	5.379	7.03	-10.6	3.50
SB06	05/23/16	12.47	5.721	6.41	113.8	0.73
SB06	08/15/16	12.98	5.983	6.81	147.5	0.26
SB06	11/21/16	12.22	5.782	6.77	12.8	0.70
SB06	02/16/17	12.40	5.896	6.83	165.4	0.28
SB06	05/09/17	17.13	5.090	6.86	91.9	1.10
SB06	08/24/17	14.84	5.480	7.22	135.8	0.69
SB06	11/20/17	13.14	5.510	6.80	42.8	0.36
SB06	02/26/18	12.10	5.520	6.94	36.8	0.53
SB07	02/24/14	12.85	5.639	6.64	-101.3	0.57
SB07	05/19/14	13.19	5.564	6.68	-97.3	0.19
SB07	08/29/14	12.99	5.318	7.18	-68.5	0.05
SB07	11/21/14	12.88	5.280	7.10	-238.1	1.22
SB07	02/13/15	12.71	5.083	7.11	-76.8	1.69
SB07	05/21/15	12.85	5.033	7.01	-175.8	0.09
SB07	08/27/15	12.92	4.059	8.47	-216.8	0.16
SB07	11/24/15	12.70	2.305	12.49 ²	-248.3	0.19
SB07	02/22/16	12.80	1.896	6.99	-264.9	-0.40 ³
SB07	05/23/16	13.25	2.450	7.12	-241.0	-0.1 ³
SB07	08/15/16	13.64	2.511	7.03	-126.6	0.17
SB07	11/21/16	12.74	3.010	7.05	-86.8	0.19
SB07	02/16/17	12.90	3.980	7.20	-108.9	0.33
SB07	05/09/17	17.76	2.710	6.90	-87.5	0.35
SB07	08/24/17	16.15	3.040	7.31	-176.2	0.02

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB07	11/20/17	14.18	3.480	6.81	-169.2	0.08
SB07	02/26/18	11.33	4.020	7.18	-60.3	0.46
SB08	03/07/14 ¹	11.12	4.866	6.29	-170.9	3.95
SB08	05/19/14	13.39	5.197	6.80	-153.5	0.33
SB08	08/29/14	12.92	5.358	6.68	-74.4	0.34
SB08	11/21/14			Not Measured - LNAPL Present		
SB08	02/13/15			Not Measured - LNAPL Present		
SB08	05/21/15			Not Measured - LNAPL Present		
SB08	08/27/15	13.05	3.466	8.00	-187.6	0.07
SB08	11/24/15			Not Measured - LNAPL Present		
SB08	02/22/16	12.67	0.577	6.85	-197.4	-0.34 ³
SB08	05/23/16	13.23	1.630	6.73	-220.2	0.23
SB08	08/15/16	12.84	1.574	6.93	-97.7	0.25
SB08	11/21/16	12.69	2.008	6.80	-88.8	0.34
SB08	02/16/17	12.90	4.557	7.00	-175.9	0.33
SB08	05/09/17	18.69	1.870	6.81	-84.63	0.32
SB08	08/24/17	16.18	2.090	7.25	-153.2	0.06
SB08	11/20/17	14.23	2.150	6.87	-134.0	0.05
SB08	02/26/18	11.39	3.050	6.90	-61.9	0.34
SB09	03/07/14 ¹	10.00	4.415	6.64	-123.5	8.81
SB09	05/19/14			Not Measured - LNAPL Present		
SB09	08/29/14			Not Measured - LNAPL Present		
SB09	11/21/14			Not Measured - LNAPL Present		
SB09	02/13/15			Not Measured - LNAPL Present		
SB09	05/21/15			Not Measured - LNAPL Present		
SB09	08/27/15			Not Measured - LNAPL Present		
SB09	11/24/15			Not Measured - LNAPL Present		
SB09	02/22/16			Not Measured - LNAPL Present		
SB09	05/23/16			Not Measured - LNAPL Present		
SB09	08/15/16			Not Measured - LNAPL Present		
SB09	11/21/16			Not Measured - LNAPL Present		
SB09	02/16/17			Not Measured - LNAPL Present		
SB09	05/09/17			Not Measured - LNAPL Present		
SB09	08/24/17			Not Measured - LNAPL Present		
SB09	11/20/17			Not Measured - LNAPL Present		
SB09	02/26/18			Not Measured - LNAPL Present		
SB10	03/07/14 ¹	11.48	8.344	6.31	-183.9	5.90
SB10	05/19/14	13.26	9.942	6.35	-158.5	0.14
SB10	08/29/14			Not Measured - LNAPL Present		

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB10	11/21/14	12.85	11.050	6.57	-136.7	0.38
SB10	02/13/15	12.91	11.395	6.51	-7.3	0.72
SB10	05/21/15			Not Measured - LNAPL Present		
SB10	08/27/15	13.90	12.480	7.85	-134.40	0.28
SB10	11/24/15	12.79	13.700	11.82 ²	-215.20	0.11
SB10	02/22/16	12.80	1.982	6.77	-249.90	-0.70 ³
SB10	05/23/16	13.33	5.112	6.56	-192.50	0.16
SB10	08/15/16	14.06	7.100	6.66	-87.70	0.17
SB10	11/21/16	12.84	8.444	6.47	-100.8	0.29
SB10	02/16/17	12.90	9.152	6.61	-128.3	0.39
SB10	05/09/17	18.69	7.950	6.55	-72.8	0.43
SB10	08/24/17	15.75	8.750	6.93	-186.1	0.01
SB10	11/20/17	13.62	9.120	6.65	-195.4	0.03
SB10	02/26/18	11.37	9.950	6.74	-91.5	0.35
SB11	02/24/14	12.60	2.218	7.38	20.2	0.49
SB11	05/19/14	13.03	2.312	7.25	130.9	6.69
SB11	08/29/14	12.65	2.423	7.49	118.1	0.10
SB11	11/21/14	12.49	2.524	7.39	-104.9	0.65
SB11	02/13/15	12.54	2.548	7.23	28.2	0.30
SB11	05/21/15	12.57	2.712	7.07	-2.5	0.11
SB11	08/27/15	12.55	2.787	8.21	-117.6	0.11
SB11	11/24/15	12.23	2.778	6.87	-35.7	0.26
SB11	02/22/16	12.37	2.840	7.25	-79.9	0.40
SB11	05/23/16	12.55	2.953	5.10 ²	134.2	0.31
SB11	08/15/16	12.64	2.953	7.09	51.2	0.26
SB11	11/21/16	12.27	2.852	7.02	-11.6	0.92
SB11	02/16/17	12.40	2.838	7.16	-77.3	0.40
SB11	05/09/17	16.51	2.350	6.84	95.8	1.09
SB11	08/24/17	18.76	2.320	7.72	73.2	0.20
SB11	11/20/17	14.22	2.690	7.06	38.0	0.29
SB11	02/26/18	11.63	2.870	7.26	18.0	0.55
SB12	02/24/14	12.86	5.748	7.17	70.2	2.79
SB12	05/19/14	12.68	5.941	7.31	137.2	0.20
SB12	08/29/14	12.46	5.920	7.46	159.6	0.17
SB12	11/21/14	12.41	5.969	7.75	177.3	1.22
SB12	02/13/15	12.33	5.842	7.35	53.5	0.33
SB12	05/21/15	12.35	5.566	7.13	17.6	0.39
SB12	08/27/15	12.47	5.864	7.52	87.4	0.33
SB12	11/24/15	11.96	5.667	6.74	44.1	0.56

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB12	02/22/16	12.14	5.649	7.52	16.5	0.34
SB12	05/23/16	12.35	5.561	7.15	87.9	4.5
SB12	08/15/16	12.63	5.643	7.36	167.5	0.19
SB12	11/21/16	12.09	5.682	7.40	-11.0	0.09
SB12	02/16/17	12.20	5.709	7.49	166.7	0.60
SB12	05/09/17	Not Measured - Removed From Groundwater Monitoring Program				
SB12	08/24/17	16.02	7.720	7.92	8.10	0.51
SB12	11/20/17	14.45	3.610	6.89	-138.0	0.14
SB12	02/26/18	12.21	4.430	7.56	-14.1	0.15
SB13	02/24/14	12.72	3.556	7.98	23.5	0.16
SB13	05/19/14	13.75	4.699	7.52	202.2	0.14
SB13	08/29/14	12.89	4.605	7.58	154.6	0.10
SB13	11/21/14	12.75	4.651	7.83	164.4	1.37
SB13	02/13/15	12.65	4.861	7.35	42.9	0.41
SB13	05/21/15	12.72	4.708	7.10	-10.9	0.10
SB13	08/27/15	12.70	4.958	7.54	44.1	0.07
SB13	11/24/15	12.41	5.028	6.54	59.7	0.45
SB13	02/22/16	12.59	4.902	7.15	-29.5	0.25
SB13	05/23/16	13.14	5.040	7.10	-154.3	0.14
SB13	08/15/16	13.90	4.547	6.87	76.5	0.39
SB13	11/21/16	12.49	4.885	6.85	-9.5	0.42
SB13	02/16/17	12.60	5.213	7.30	-30.4	0.64
SB13	05/09/17	17.65	4.350	6.97	-36.7	1.04
SB13	08/24/17	14.22	4.790	7.36	-94.4	0.18
SB13	11/20/17	13.24	5.110	6.92	-106.0	0.27
SB13	02/26/18	11.83	5.420	7.12	-22.7	0.26
SB14	02/24/14	12.91	2.000	7.29	63.6	0.15
SB14	05/19/14	12.99	2.071	6.96	62.0	0.13
SB14	08/29/14	12.87	2.051	7.17	5.2	0.22
SB14	11/21/14	12.72	2.063	7.48	-122.5	0.51
SB14	02/13/15	12.77	1.977	7.10	-52.0	0.50
SB14	05/21/15	12.83	1.979	7.01	-122.2	0.18
SB14	08/27/15	12.78	2.079	8.30	-148.2	0.08
SB14	11/24/15	12.65	1.896	10.77 ²	-125.3	0.51
SB14	02/22/16	12.66	1.890	7.25	-234.1	0.33
SB14	05/23/16	13.15	1.985	6.95	-228.7	0.05
SB14	08/15/16	13.88	2.674	7.09	-83.5	0.20
SB14	11/21/16	12.61	2.154	6.87	-56.4	1.91
SB14	02/16/17	12.70	2.245	7.00	-81.4	0.60

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB14	05/09/17	16.54	1.950	6.69	-35.6	0.38
SB14	08/24/17	17.38	1.990	7.51	-133.5	0.03
SB14	11/20/17	13.22	2.240	7.06	-123.2	0.11
SB14	02/26/18	11.30	2.500	7.07	-9.8	0.30
SB15	02/24/14	12.50	3.080	6.97	-204.4	0.33
SB15	05/19/14	13.42	2.698	6.67	-46.9	0.60
SB15	08/29/14	12.91	2.588	6.92	17.6	0.57
SB15	11/21/14	12.55	2.404	6.97	-156.4	0.81
SB15	02/13/15	12.13	2.526	6.97	-47.2	1.12
SB15	05/21/15	12.74	1.857	6.98	-124.0	0.13
SB15	08/27/15	13.06	0.025	7.56	-62.2	9.29
SB15	11/24/15	12.55	1.124	10.12 ²	-88.3	0.29
SB15	02/22/16	12.52	1.089	7.54	-79.5	0.20
SB15	05/23/16	12.87	2.028	6.83	-178.8	0.12
SB15	08/15/16	13.03	2.481	6.88	-8.6	0.20
SB15	11/21/16	12.61	2.891	6.79	-30.2	0.22
SB15	02/16/17	13.00	3.557	6.94	-3.1	0.16
SB15	05/09/17	16.39	3.490	6.86	95.7	0.20
SB15	08/24/17	18.43	2.860	7.36	-94.0	0.07
SB15	11/20/17	13.90	4.130	6.81	86.9	0.47
SB15	02/26/18	11.51	4.410	6.77	43.2	1.12
SB16	02/24/14			Not Measured - Insufficient Water		
SB16	05/19/14			Not Measured - Insufficient Water		
SB16	08/29/14			Not Measured - Insufficient Water		
SB16	11/21/14			Not Measured - Insufficient Water		
SB16	02/13/15			Not Measured - Insufficient Water		
SB16	05/21/15			Not Measured - Insufficient Water		
SB16	08/27/15			Removed From Groundwater Monitoring Program - Plugged and Abandoned		
SB16R	03/07/14 ¹	10.84	3.736	6.84	-97.4	9.04
SB16R	05/19/14	12.95	4.355	7.15	-28.9	0.60
SB16R	08/29/14			Not Measured - LNAPL Present		
SB16R	11/21/14			Not Measured - LNAPL Present		
SB16R	02/13/15			Not Measured - LNAPL Present		
SB16R	05/21/15			Not Measured - LNAPL Present		
SB16R	08/27/15			Not Measured - LNAPL Present		
SB16R	11/24/15			Not Measured - LNAPL Present		
SB16R	02/22/16			Not Measured - LNAPL Present		
SB16R	05/23/16			Not Measured - LNAPL Present		
SB16R	08/15/16			Not Measured - LNAPL Present		

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB16R	11/21/16		Not Measured - LNAPL Present			
SB16R	02/16/17		Not Measured - LNAPL Present			
SB16R	05/09/07	Not Measured - Well Damaged and Removed from Monitoring Program				
SB16R2	08/24/17	19.10	4.18	7.66	-56.3	0.03
SB16R2	11/20/17		Not Measured - LNAPL Present			
SB16R2	02/27/18		Not Measured - LNAPL Present			
SB17	02/24/14	12.27	5.859	7.17	49.0	1.01
SB17	05/19/14	13.08	5.904	7.15	155.9	0.38
SB17	08/29/14	12.79	5.908	7.49	158.3	0.27
SB17	11/21/14	12.68	5.913	7.53	135.9	0.99
SB17	02/13/15	12.57	5.832	7.19	38.5	0.32
SB17	05/21/15	12.67	5.643	7.06	-13.9	0.67
SB17	08/27/15	12.67	5.729	7.57	51.0	0.95
SB17	11/24/15	12.29	5.647	6.77	52.5	2.33
SB17	02/22/16	12.38	5.734	7.37	9.6	0.26
SB17	05/23/16	12.83	5.683	7.20	38.7	0.20
SB17	08/15/16	12.99	5.710	7.30	171.8	0.63
SB17	11/21/16	12.40	5.724	7.34	8.4	0.41
SB17	02/16/17	12.50	5.834	7.34	112.0	0.31
SB17	05/09/17	16.96	4.930	7.16	49.3	0.35
SB17	08/24/17	18.35	5.300	7.62	10.5	0.02
SB17	11/20/17	13.90	5.360	7.05	-34.3	0.10
SB17	02/26/18	11.33	5.920	7.36	35.9	0.19
SB18	02/24/14	12.56	5.622	7.18	59.6	0.50
SB18	05/19/14	12.84	5.669	7.13	169.2	0.41
SB18	08/29/14	12.98	5.644	7.38	13.4	0.07
SB18	11/21/14	12.54	5.812	7.43	-72.9	0.95
SB18	02/13/15	12.53	5.597	7.19	24.8	0.37
SB18	05/21/15	12.49	2.299	7.08	-69.0	0.16
SB18	08/27/15	12.72	4.188	8.15	-129.6	0.14
SB18	11/24/15	12.28	5.283	6.68	20.9	0.29
SB18	02/22/16	12.33	5.263	7.33	-46.8	0.21
SB18	05/23/16	12.80	5.221	7.11	-19.7	0.68
SB18	08/15/16	12.95	5.464	7.13	117.1	0.81
SB18	11/21/16	12.39	5.533	7.20	6.9	0.17
SB18	02/16/17	12.50	5.620	7.31	17.6	0.38
SB18	05/09/17	17.17	4.600	6.88	-58.5	0.45
SB18	08/24/17	Not Measured - Removed From Groundwater Monitoring Program				
SB18	11/20/17	Not Measured - Removed From Groundwater Monitoring Program				

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)	
SB19	02/24/14	12.24	5.457	7.16	19.5	0.91	
SB19	05/19/14	13.17	5.473	7.18	82.7	0.30	
SB19	08/29/14	12.68	5.376	7.34	-2.2	0.11	
SB19	11/21/14	12.47	5.578	7.31	-101.9	1.20	
SB19	02/13/15	12.45	5.469	7.04	25.5	1.80	
SB19	05/21/15	12.44	5.145	7.00	-49.4	0.33	
SB19	08/27/15	12.61	5.408	8.12	-119.5	0.20	
SB19	11/24/15	12.15	5.243	6.63	-14.9	0.80	
SB19	02/22/16	12.25	5.290	7.31	-111.8	0.21	
SB19	05/23/16	12.75	5.209	7.18	-109.4	0.13	
SB19	08/15/16	12.76	5.301	7.16	7.4	0.56	
SB19	11/21/16	12.28	5.298	7.18	-31.2	0.70	
SB19	02/16/17	12.40	5.398	7.30	52.7	0.96	
SB19	05/09/17	16.85	4.500	7.02	-50.2	0.45	
SB19	08/24/17	14.15	1.950	7.90	-154.7	0.03	
SB19	11/20/17	13.15	2.260	7.22	-95.8	0.34	
SB19	02/26/18	12.27	2.760	7.54	-20.1	0.11	
SB20	02/24/14			Not Measured - Insufficient Water			
SB20	05/19/14	13.97	4.530	7.17	181.4	0.95	
SB20	08/29/14	12.72	4.834	7.27	43.4	0.15	
SB20	11/21/14	12.41	4.888	7.41	-6.2	1.86	
SB20	02/13/15	12.41	4.802	6.74	50.0	1.08	
SB20	05/21/15	12.54	4.722	6.97	71.5	1.61	
SB20	08/27/15	13.78	0.045	7.77	-26.8	10.71	
SB20	11/24/15	12.39	3.669	11.22 ²	-203.2	0.11	
SB20	02/22/16	12.44	0.903	7.34	-82.8	0.73	
SB20	05/23/16	12.98	1.720	7.36	-110.4	0.19	
SB20	08/15/16	12.88	1.716	7.37	-29.8	0.42	
SB20	11/21/16	12.42	2.671	7.15	-28.4	0.41	
SB20	02/16/17	12.50	3.913	7.13	-71.4	0.55	
SB20	05/09/17	16.64	3.520	6.92	-2.8	0.45	
SB20	08/24/17	14.44	3.530	7.55	-87.9	0.16	
SB20	11/20/17	13.07	2.580	7.21	-76.4	0.09	
SB20	02/26/18	11.42	3.540	7.22	-10.2	0.20	
SB20R	02/24/14			Not Measured - Insufficient Water			
SB20R	05/19/14			Not Measured - Insufficient Water			
SB20R	08/29/14			Not Measured - Insufficient Water			
SB20R	11/21/14			Not Measured - Insufficient Water			
SB20R	02/13/15			Not Measured - Insufficient Water			

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB20R	05/21/15					
SB20R	08/27/15					
SB21	02/24/14					
SB21	05/19/14					
SB21	08/29/14					
SB21	11/21/14					
SB21	02/13/15					
SB21	05/21/15					
SB21	08/27/15					
SB21	11/24/15					
SB21	02/22/16					
SB21	05/23/16					
SB21	08/15/16					
SB21	11/21/16					
SB21	02/16/17					
SB21	05/09/17					
SB21	08/24/17					
SB21	11/20/17					
SB21	02/26/18					
SB22	02/24/14					
SB22	05/19/14					
SB22	08/29/14					
SB22	11/21/14					
SB22	02/13/15					
SB22	05/21/15					
SB22	08/27/15					
SB22R	02/24/14	12.29	3.073	7.19	83.1	0.20
SB22R	05/19/14	12.83	3.560	7.05	118.9	0.20
SB22R	08/29/14	12.53	2.767	6.99	-70.0	0.12
SB22R	11/21/14	12.48	3.792	7.45	12.6	1.53
SB22R	02/13/15	12.32	3.100	6.95	41.0	0.24
SB22R	05/21/15	12.32	2.598	7.06	-142.2	0.17
SB22R	08/27/15	12.77	3.703	7.83	-101.5	0.27
SB22R	11/24/15	12.31	2.760	9.79	-55.3	0.31
SB22R	02/22/16	12.19	1.353	7.09	-167.8	0.22
SB22R	05/23/16	12.64	1.731	7.07	-172.7	0.17
SB22R	08/15/16	12.54	2.838	6.97	-46.5	0.14
SB22R	11/21/16	12.35	1.536	7.04	-46.9	0.18
SB22R	02/16/17	12.40	4.735	7.00	-42.7	0.29

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB22R	05/09/17	17.35	1.430	6.99	-66.8	0.42
SB22R	08/24/17	17.87	1.530	7.38	-159.6	0.01
SB22R	11/20/17	13.28	2.030	6.99	-166.7	0.21
SB22R	02/26/18	12.56	2.280	7.34	-46.3	0.03
SB23	03/07/14 ¹	11.26	1.978	7.07	-162.2	4.18
SB23	05/19/14			Not Measured - LNAPL Present		
SB23	08/29/14			Not Measured - LNAPL Present		
SB23	11/21/14			Not Measured - LNAPL Present		
SB23	02/13/15			Not Measured - LNAPL Present		
SB23	05/21/15			Not Measured - LNAPL Present		
SB23	08/27/15			Not Measured - Insufficient Water		
SB23	11/24/15			Not Measured - Insufficient Water		
SB23	02/22/16			Not Measured - Insufficient Water		
SB23	05/23/16			Not Measured - Insufficient Water		
SB23	08/15/16			Not Measured - Insufficient Water		
SB23	11/21/16			Not Measured - Insufficient Water		
SB23	02/16/17			Not Measured - Insufficient Water		
SB23	05/09/17			Not Measured - Removed from Groundwater Monitoring Program		
SB23R	08/24/17			Not Measured - LNAPL Present		
SB23R	11/20/17	13.43	2.22	7.17	-205.8	0.04
SB23R	02/26/18			Not Measured - LNAPL Present		
SB24	02/24/14			Not Measured - Insufficient Water		
SB24	05/19/14			Not Measured - Insufficient Water		
SB24	08/29/14			Not Measured - Insufficient Water		
SB24	11/21/14			Not Measured - Insufficient Water		
SB24	02/13/15			Not Measured - Insufficient Water		
SB24	05/21/15			Not Measured - Insufficient Water		
SB24	08/27/15			Removed From Groundwater Monitoring Program - Plugged and Abandoned		
SB24R	02/24/14	12.29	2.768	7.19	129.5	0.37
SB24R	05/19/14	12.75	3.496	6.88	226.0	0.21
SB24R	08/29/14	12.39	3.007	7.49	108.5	0.36
SB24R	11/21/14	12.30	4.164	7.45	152.4	1.49
SB24R	02/13/15	12.24	3.734	7.15	70.8	6.50
SB24R	05/21/15	12.27	2.891	7.13	10.7	0.20
SB24R	08/27/15	12.30	4.031	7.71	12.2	0.10
SB24R	11/24/15	12.22	2.667	8.45	-11.4	0.47
SB24R	02/22/16	12.07	2.758	7.55	59.5	0.34
SB24R	05/23/16	12.56	2.661	7.42	-108.2	0.49
SB24R	08/15/16	12.29	3.303	7.23	110.6	0.18

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB24R	11/21/16	12.20	3.962	7.01	19.6	0.35
SB24R	02/16/17	12.20	4.113	7.12	153.4	0.58
SB24R	05/09/17	Not Measured - Removed From Groundwater Monitoring Program				
SB25	02/24/14	Not Measured - Insufficient Water				
SB25	05/19/14	Not Measured - Insufficient Water				
SB25	08/29/14	Not Measured - Insufficient Water				
SB25	11/21/14	Not Measured - Insufficient Water				
SB25	02/13/15	Not Measured - Insufficient Water				
SB25	05/21/15	Not Measured - Insufficient Water				
SB25	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned				
SB25R	02/24/14	12.16	3.008	7.22	174.2	2.00
SB25R	05/19/14	12.65	3.214	7.11	219.5	0.18
SB25R	08/29/14	12.47	3.054	7.50	135.1	0.04
SB25R	11/21/14	12.38	3.195	7.55	22.9	0.85
SB25R	02/13/15	12.25	3.180	7.12	44.6	1.00
SB25R	05/21/15	12.41	2.960	7.09	38.8	0.14
SB25R	08/27/15	12.62	3.412	7.82	-52.2	0.10
SB25R	11/24/15	12.35	3.095	6.73	0.3	0.62
SB25R	02/22/16	12.12	0.317	7.22	-80.6	0.35
SB25R	05/23/16	12.53	2.652	7.18	-115.4	0.30
SB25R	08/15/16	12.60	0.585	7.55	-20.7	0.30
SB25R	11/21/16	12.31	1.002	7.56	-46.5	0.33
SB25R	02/16/17	12.30	0.816	7.65	-110.6	0.11
SB25R	05/09/17	16.01	1.200	7.19	-13.1	0.39
SB25R	08/24/17	14.31	1.240	8.08	-113.6	0.06
SB25R	11/20/17	12.94	1.840	7.24	-18.7	0.61
SB25R	02/26/18	11.18	2.290	7.51	18.6	0.50
SB26	02/24/14	12.80	2.212	7.60	171.0	0.56
SB26	05/19/14	12.89	1.999	7.75	216.9	0.62
SB26	08/29/14	12.51	2.026	7.85	96.0	0.10
SB26	11/21/14	12.20	2.260	7.99	86.4	1.81
SB26	02/13/15	12.23	1.836	7.59	140.6	0.77
SB26	05/21/15	12.39	1.753	7.35	20.5	0.30
SB26	08/27/15	12.43	1.833	7.74	65.3	0.15
SB26	11/24/15	12.20	1.025	9.87	-63.2	0.34
SB26	02/22/16	12.13	0.663	7.96	-69.5	0.23
SB26	05/23/16	12.64	0.637	7.62	-149.1	0.22
SB26	08/15/16	12.41	1.075	7.33	166.0	0.18
SB26	11/21/16	12.13	1.523	7.65	4.0	0.35

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB26	02/16/17	12.30	1.836	6.67	156.2	0.71
SB26	05/09/17		Not Measured - Removed From Groundwater Monitoring Program			
SB27	02/24/14		Not Measured - Insufficient Water			
SB27	05/19/14		Not Measured - Insufficient Water			
SB27	08/29/14		Not Measured - Insufficient Water			
SB27	11/21/14		Not Measured - Insufficient Water			
SB27	02/13/15		Not Measured - Insufficient Water			
SB27	05/21/15		Not Measured - Insufficient Water			
SB27	08/27/15		Removed From Groundwater Monitoring Program - Plugged and Abandoned			
SB27R	02/24/14	11.95	3.014	7.35	152.0	4.99
SB27R	05/19/14	12.68	3.275	7.08	245.3	0.22
SB27R	08/29/14	12.41	3.053	7.59	103.5	0.06
SB27R	11/21/14	12.31	3.329	7.54	199.7	1.84
SB27R	02/13/15	12.26	3.157	7.25	25.6	0.44
SB27R	05/21/15	12.34	2.955	7.08	59.3	0.33
SB27R	08/27/15	12.45	3.411	7.58	9.8	0.39
SB27R	11/24/15	12.31	2.981	6.89	47.2	2.00
SB27R	02/22/16	12.17	3.030	7.38	17.3	0.22
SB27R	05/23/16	12.57	2.913	7.33	-76.6	1.65
SB27R	08/15/16	12.56	2.931	7.22	17.2	0.42
SB27R	11/21/16	12.30	3.021	7.19	-2.5	0.35
SB27R	02/16/17	12.30	3.449	7.12	36.8	0.45
SB27R	05/09/17	15.65	2.620	6.81	104.7	1.61
SB27R	08/24/17	17.43	2.670	7.92	174.2	0.32
SB27R	11/20/17	13.25	2.950	7.29	62.7	1.41
SB27R	02/26/18	11.44	3.290	7.31	31.5	0.08
SB28	02/24/14		Not Measured - Insufficient Water			
SB28	05/19/14		Not Measured - Insufficient Water			
SB28	08/29/14		Not Measured - Insufficient Water			
SB28	11/21/14		Not Measured - Insufficient Water			
SB28	02/13/15		Not Measured - Insufficient Water			
SB28	05/21/15		Not Measured - Insufficient Water			
SB28	08/27/15		Removed From Groundwater Monitoring Program - Plugged and Abandoned			
SB28R	02/24/14	12.41	2.326	7.25	135.9	0.47
SB28R	05/19/14	12.49	3.130	7.50	254.3	0.83
SB28R	08/29/14	12.47	2.725	7.49	74.8	0.16
SB28R	11/21/14	12.35	3.429	7.60	153.4	2.06
SB28R	02/13/15	12.30	2.971	7.25	73.9	0.67
SB28R	05/21/15	12.32	2.204	7.22	23.5	0.17

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB28R	08/27/15	12.85	1.927	7.74	6.1	1.16
SB28R	11/24/15	12.25	2.276	8.32	-3.2	0.54
SB28R	02/22/16	12.17	2.809	7.43	44.3	0.36
SB28R	05/23/16	12.45	2.618	7.35	-99.8	0.32
SB28R	08/15/16	12.59	1.937	7.38	38.7	1.20
SB28R	11/21/16			Not Measured - Insufficient Water		
SB28R	02/16/17			Not Measured - Well Obstructed ⁴		
SB28R	05/09/17			Not Measured - Well Obstructed ⁴		
SB28R	08/24/17			Not Measured - Well Obstructed ⁴		
SB28R	11/20/17			Not Measured - Well Obstructed ⁴		
SB28R	02/26/18			Not Measured - Well Obstructed ⁴		
SB29	02/24/14	12.59	2.630	7.22	75.8	0.56
SB29	05/19/14	12.73	3.306	7.32	526.9	0.46
SB29	08/29/14	12.69	2.328	7.61	90.9	0.31
SB29	11/21/14	12.41	3.778	7.70	118.9	0.86
SB29	02/13/15	12.37	3.586	7.38	143.2	0.50
SB29	05/21/15	12.41	2.242	7.24	-28.0	0.20
SB29	08/27/15	12.50	3.900	7.67	-11.7	0.06
SB29	11/24/15	12.21	2.435	9.68	-50.3	0.69
SB29	02/22/16	12.21	1.198	7.57	24.5	0.16
SB29	05/23/16	12.58	1.616	7.44	-147.6	0.50
SB29	08/15/16	12.50	1.626	7.54	-19.8	0.21
SB29	11/21/16	12.26	1.995	7.76	5.0	0.34
SB29	02/16/17	12.40	3.075	7.48	191.5	0.59
SB29	05/09/17			Not Measured - Removed From Groundwater Monitoring Program		
SB30	03/07/14 ¹	9.64	3.415	6.83	-57.1	15.51
SB30	05/19/14			Not Measured - LNAPL Present		
SB30	08/29/14			Not Measured - LNAPL Present		
SB30	11/21/14			Not Measured - LNAPL Present		
SB30	02/13/15			Not Measured - LNAPL Present		
SB30	05/21/15			Not Measured - LNAPL Present		
SB30	08/27/15			Not Measured - LNAPL Present		
SB30	11/24/15			Not Measured - LNAPL Present		
SB30	02/22/16			Not Measured - LNAPL Present		
SB30	05/23/16			Not Measured - LNAPL Present		
SB30	08/15/16			Not Measured - LNAPL Present		
SB30	11/21/16			Not Measured - LNAPL Present		
SB30	02/16/17			Not Measured - LNAPL Present		
SB30	05/09/17			Not Measured -Spill Buster Present		

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB30	08/24/17			Not Measured - LNAPL Present		
SB30	11/20/17			Not Measured - LNAPL Present		
SB30	02/26/18			Not Measured - LNAPL Present		
SB31	03/07/14 ¹	9.15	3.096	6.85	-47.2	14.40
SB31	05/19/14			Not Measured - LNAPL Present		
SB31	08/29/14			Not Measured - LNAPL Present		
SB31	11/21/14			Not Measured - LNAPL Present		
SB31	02/13/15			Not Measured - LNAPL Present		
SB31	05/21/15			Not Measured - LNAPL Present		
SB31	08/27/15			Not Measured - LNAPL Present		
SB31	11/24/15			Not Measured - LNAPL Present		
SB31	02/22/16			Not Measured - LNAPL Present		
SB31	05/23/16			Not Measured - LNAPL Present		
SB31	08/15/16			Not Measured - LNAPL Present		
SB31	11/21/16			Not Measured - LNAPL Present		
SB31	02/16/17			Not Measured - LNAPL Present		
SB31	05/09/17			Not Measured - Spill Buster Present		
SB31	08/24/17			Not Measured - LNAPL Present		
SB31	11/20/17			Not Measured - LNAPL Present		
SB31	02/26/18			Not Measured - LNAPL Present		
SB32	02/24/14	12.42	2.781	7.15	107.8	0.36
SB32	03/31/14	12.54	2.934	6.82	109.5	0.25
SB32	05/19/14	12.89	3.511	7.39	174.1	0.40
SB32	08/29/14	12.66	2.750	6.99	35.0	0.45
SB32	11/21/14	12.61	4.066	7.18	-145.9	1.22
SB32	02/13/15	12.47	3.926	6.92	-53.3	0.28
SB32	05/21/15	12.51	2.637	6.99	-82.0	0.11
SB32	08/27/15			Not Measured - Insufficient Water		
SB32	11/24/15			Not Measured - Insufficient Water		
SB32	02/22/16			Not Measured - Insufficient Water		
SB32	05/23/16			Not Measured - Insufficient Water		
SB32	08/15/16			Not Measured - Insufficient Water		
SB32	11/21/16			Not Measured - Insufficient Water		
SB32	02/16/17			Not Measured - Insufficient Water		
SB32	05/09/17			Not Measured - Insufficient Water		
SB32	08/24/17			Not Measured - Insufficient Water		
SB32	11/20/17			Not Measured - Insufficient Water		
SB32	02/26/18			Not Measured - Insufficient Water		
SB33	02/24/14			Not Measured - Insufficient Water		
SB33	05/19/14			Not Measured - Insufficient Water		
SB33	08/29/14	12.37	6.177	7.08	131.8	0.11

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB33	11/21/14	12.28	6.165	7.18	-11.5	1.73
SB33	02/13/15	12.16	6.050	7.02	54.9	0.35
SB33	05/21/15	12.30	5.910	6.75	79.0	0.27
SB33	08/27/15	12.40	6.035	7.78	-98.4	0.12
SB33	11/24/15	12.22	5.976	6.65	-23.4	0.32
SB33	02/22/16	12.18	6.032	7.06	-42.7	0.20
SB33	05/23/16	12.48	5.933	6.92	-52.9	0.15
SB33	08/15/16	12.29	5.925	6.85	170.8	1.50
SB33	11/21/16	12.10	5.913	6.95	-3.9	0.12
SB33	02/16/17	12.10	5.920	7.07	32.3	0.65
SB33	05/09/17	Not Measured - Removed From Groundwater Monitoring Program				
SB34	02/24/14	12.36	2.316	7.14	188.9	0.72
SB34	05/19/14	12.99	2.366	7.31	245.1	0.34
SB34	08/29/14	12.61	2.328	7.20	127.4	0.30
SB34	11/21/14	12.32	2.393	7.72	176.6	1.77
SB34	02/13/15	12.17	2.308	7.10	64.4	4.30
SB34	05/21/15	12.49	2.247	7.07	33.6	0.15
SB34	08/27/15	12.57	2.298	7.60	18.9	0.23
SB34	11/24/15	12.30	2.303	8.13	26.5	1.08
SB34	02/22/16	12.21	2.292	7.34	37.7	0.20
SB34	05/23/16	12.63	2.283	7.20	-91.0	0.33
SB34	08/15/16	12.43	2.310	7.08	128.6	0.11
SB34	11/21/16	12.29	2.308	7.19	2.2	1.94
SB34	02/16/17	12.30	2.466	7.25	-59.8	0.51
SB34	05/09/17	Not Measured - Removed From Groundwater Monitoring Program				
SB35	03/31/14	12.42	2.861	6.69	118.3	0.39
SB35	05/19/14	12.56	2.905	4.38	184.8	0.30
SB35	08/29/14	12.46	2.887	7.55	107.5	0.11
SB35	11/21/14	12.44	3.078	7.69	89.1	1.40
SB35	02/13/15	12.29	2.897	7.26	31.9	0.72
SB35	05/21/15	12.38	2.787	7.06	46.1	0.14
SB35	08/27/15	12.54	3.036	7.75	-15.3	8.30
SB35	11/24/15	12.31	1.763	6.99	-16.9	0.41
SB35	02/22/16	12.18	1.881	7.40	-95.9	0.18
SB35	05/23/16	12.47	2.132	7.27	-103.7	0.20
SB35	08/15/16	12.44	2.261	7.17	-40.9	0.22
SB35	11/21/16	12.30	2.610	7.26	-16.0	0.46
SB35	02/16/17	12.30	2.990	7.30	19.0	0.35
SB35	05/09/17	16.19	2.410	7.03	89.7	0.49
SB35	08/24/17	Not Measured - Removed From Groundwater Monitoring Program				
SB36	03/31/14	12.56	3.638	6.95	86.3	0.19

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)	
SB36	05/19/14	12.42	4.010	7.39	250.8	0.32	
SB36	08/29/14	12.37	3.134	7.13	26.0	0.17	
SB36	11/21/14	12.32	3.121	7.68	145.8	1.63	
SB36	02/13/15	12.01	3.096	6.84	156.7	0.75	
SB36	05/21/15	12.17	2.926	7.06	77.2	0.30	
SB36	08/27/15	12.13	5.125	7.27	79.2	0.18	
SB36	11/24/15	11.96	4.449	6.31	90.8	0.40	
SB36	02/22/16	12.15	4.534	6.97	-14.8	0.32	
SB36	05/23/16	12.33	3.978	6.58	-59.2	0.45	
SB36	08/15/16	12.48	3.383	6.94	168.0	0.23	
SB36	11/21/16	12.08	3.701	6.93	-78.8	0.13	
SB36	02/16/17	12.20	4.224	6.89	-83.2	0.64	
SB36	05/09/17	14.42	2.809	7.03	-112.7	0.16	
SB36	08/24/17	13.14	3.640	7.45	-125.2	0.07	
SB36	11/20/17	13.49	3.610	6.73	-207.0	0.16	
SB36	02/26/18	12.52	3.700	7.18	-24.0	0.11	
SB37	03/31/14			Not Measured - Insufficient Water			
SB37	05/19/14	12.92	3.378	6.97	245.5	0.22	
SB37	08/29/14	12.69	2.263	7.09	-48.9	0.09	
SB37	11/21/14	12.51	3.562	7.22	-30.0	1.57	
SB37	02/13/15	12.54	3.581	6.88	47.3	0.24	
SB37	05/21/15	12.53	2.066	7.18	-166.9	0.04	
SB37	08/27/15	12.71	1.964	8.26	-203.4	0.29	
SB37	11/24/15	12.48	1.874	8.70	-40.6	0.28	
SB37	02/22/16	12.40	2.040	7.39	-205.9	0.04	
SB37	05/23/16			Not Measured - LNAPL Present			
SB37	08/15/16			Not Measured - LNAPL Present			
SB37	11/21/16			Not Measured - LNAPL Present			
SB37	02/16/17			Not Measured - LNAPL Present			
SB37	05/09/17			Not Measured - LNAPL Present			
SB37	08/24/17			Not Measured - LNAPL Present			
SB37	11/20/17			Not Measured - LNAPL Present			
SB37	02/26/18			Not Measured - LNAPL Present			
SB38	03/31/14	12.49	2.701	7.03	77.0	2.09	
SB38	05/19/14	12.60	2.728	7.45	250.8	0.22	
SB38	08/29/14	12.33	2.378	7.47	27.3	0.19	
SB38	11/21/14	12.32	2.658	7.69	151.3	0.41	
SB38	02/13/15	12.22	2.640	7.37	167.3	2.17	
SB38	05/21/15	12.21	2.286	6.98	215.5	0.36	
SB38	08/27/15	12.69	2.596	7.55	90.0	0.90	
SB38	11/24/15	12.04	2.417	6.66	88.6	0.83	

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB38	02/22/16	12.14	2.550	7.58	23.1	0.40
SB38	05/23/16	12.35	2.017	6.89	128.6	0.33
SB38	08/15/16	12.45	2.230	7.18	241.9	0.25
SB38	11/21/16	12.09	2.491	7.17	-18.8	0.16
SB38	02/16/17	12.30	2.648	7.20	2.6	0.49
SB38	05/09/17	15.84	2.028	6.86	54.0	0.44
SB38	08/24/17	14.08	2.080	7.62	125.4	0.60
SB38	11/20/17	14.19	2.320	6.80	99.3	0.54
SB38	02/26/18	12.51	2.760	7.27	48.3	0.16
SB39	04/18/14	13.52	6.588	6.98	160.8	2.90
SB39	05/19/14	12.51	6.540	7.19	258.0	0.35
SB39	08/29/14	12.30	6.203	7.51	126.6	0.07
SB39	11/21/14	12.22	6.402	7.53	216.0	2.12
SB39	02/13/15	12.15	6.336	7.00	65.1	0.61
SB39	05/21/15	12.10	5.814	6.77	226.3	0.23
SB39	08/27/15	12.41	4.085	7.23	94.9	0.59
SB39	11/24/15	11.72	4.033	6.27	91.6	1.32
SB39	02/22/16	11.90	3.954	7.08	23.2	0.31
SB39	05/23/16			Not Measured - Probe Malfunction		
SB39	08/15/16	12.36	3.704	7.05	280.1	3.48
SB39	11/21/16	11.86	3.846	6.97	111.5	2.52
SB39	02/16/17	12.00	3.862	6.93	411.2	1.79
SB39	05/09/17	16.37	2.92	6.75	94.83	1.36
SB39	08/24/17	14.40	2.98	7.52	220.2	7.70
SB39	11/20/17	13.21	3.74	6.93	28.4	0.71
SB39	02/26/18	11.93	4.38	7.10	40.5	1.94
SB40	04/18/14	12.58	3.878	7.22	140.1	1.17
SB40	05/19/14	12.36	3.888	7.54	232.0	0.58
SB40	08/29/14	12.14	3.561	7.61	88.0	3.20
SB40	11/21/14	11.49	3.553	7.60	88.4	2.20
SB40	02/13/15	12.11	3.559	7.13	76.0	2.01
SB40	05/21/15	12.12	3.485	6.50	250.1	0.90
SB40	08/27/15	12.22	3.721	7.34	116.2	0.12
SB40	11/24/15	11.91	2.703	6.65	108.7	4.74
SB40	02/22/16	12.03	2.260	7.24	192.0	0.41
SB40	05/23/16	12.03	2.281	6.64	108.8	5.43
SB40	08/15/16	12.43	2.111	7.50	263.8	7.10
SB40	11/21/16	11.96	2.012	7.28	142.4	1.89
SB40	02/16/17	12.20	2.363	7.27	414.0	0.71
SB40	05/09/17			Not Measured - Removed From Groundwater Monitoring Program		
SB41	04/18/14	12.92	2.001	7.54	115.8	3.36

TABLE 2
GROUNDWATER GEOCHEMICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Temp (°C)	EC (mS/cm)	pH	ORP (mV)	DO (mg/L)
SB41	05/19/14	12.51	2.419	7.39	208.1	0.25
SB41	08/29/14	12.30	2.012	7.76	43.3	0.22
SB41	11/21/14	11.97	1.980	8.10	122.2	2.05
SB41	02/13/15	12.14	2.094	7.47	109.0	0.45
SB41	05/21/15	12.19	1.910	7.09	217.0	0.34
SB41	08/27/15	12.53	1.945	7.49	118.3	0.10
SB41	11/24/15	11.97	1.932	6.70	97.8	1.95
SB41	02/22/16	12.05	0.868	7.63	-68.5	0.38
SB41	05/23/16	12.28	1.846	6.97	105.0	0.53
SB41	08/15/16	12.48	2.570	7.38	250.9	0.22
SB41	11/21/16	12.04	2.546	7.17	240.9	1.39
SB41	02/16/17	12.20	2.379	7.43	421.4	0.54
SB41	05/09/17	Not Measured - Removed From Groundwater Monitoring Program				
SB42	04/18/14	12.61	2.645	7.37	205.9	6.44
SB42	05/19/14	12.66	3.096	7.23	250.0	0.44
SB42	08/29/14	12.54	2.304	7.64	143.0	0.54
SB42	11/21/14	12.42	2.259	7.84	58.6	0.84
SB42	02/13/15	12.44	3.195	7.22	37.3	0.69
SB42	05/21/15	12.29	2.030	7.21	128.8	0.25
SB42	08/27/15	12.56	2.059	7.56	84.0	0.08
SB42	11/24/15	12.20	2.034	6.75	8.5	0.25
SB42	02/22/16	12.17	1.923	7.65	-59.8	0.28
SB42	05/23/16	12.56	1.888	7.52	-145.9	0.42
SB42	08/15/16	12.65	1.884	7.47	48.5	0.43
SB42	11/21/16	12.15	1.941	7.42	-15.5	1.65
SB42	02/16/17	12.30	2.520	7.58	117.9	0.31
SB42	05/09/17	Not Measured - Removed From Groundwater Monitoring Program				

NOTES:

Temp (°C) = Temperature in degrees Celsius (°C)

EC (mS/cm) = Electrical conductivity in millisiemens per centimeter (mS/cm)

pH = Acidity or alkalinity in standard units

ORP (mV) = Oxidation reduction potential in millivolts (mV)

DO (mg/L) = Dissolved oxygen concentration in milligrams per liter (mg/L)

LNAPL = Light non-aqueous phase liquid

¹ Measured ex-situ due to the presence of LNAPL

² pH values appear anomalous for wells SB07, SB10, SB14, SB15, SB20 measured on 11/24/15, and for well SB11 on 5/23/16.

³ DO values appear anomalous for wells SB07, SB08, SB10 measured on 02/22/16, and for well SB07 measured on 5/23/16.

⁴ Obstruction in well large enough to block meter sensor, but did not block hydrosleeve deployment.

This table presents data collected by Tasman Geosciences. Historical data is presented in Attachment A of the Form 27 Site Assessment Report (COGCC Document #2148980)

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)
COGCC Groundwater Standard ($\mu\text{g/L}$)		5	560	700	1,400
SB01	02/24/14	1.5	13.5	1.2	33.8
SB01	05/19/14	Removed From Groundwater Monitoring Program - Submerged Well Screen			
SB01	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned			
SB02	02/24/14	25.1	<4.0	<4.0	<4.0
SB02	05/19/14	Removed From Groundwater Monitoring Program - Submerged Well Screen			
SB02	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned			
SB03	02/24/14	<1.0	<1.0	<1.0	<1.0
SB03	05/19/14	<1.0	<5.0	<1.0	<3.0
SB03	08/29/14	<1.0	<5.0	<1.0	<3.0
SB03	11/21/14	<1.0	<5.0	<1.0	<3.0
SB03	02/13/15	<1.0	<5.0	<1.0	<3.0
SB03	05/21/15	<1.0	<5.0	<1.0	<3.0
SB03	08/27/15	<1.0	<5.0	<1.0	<3.0
SB03	11/24/15	1.45	<5.0	1.33	<3.0
SB03	02/22/16	2.57	<5.0	5.53	<3.0
SB03	05/23/16	3.2	<1.0	6.2	2.5
SB03	08/15/16	<1.0	<1.0	<1.0	<1.0
SB03	11/21/16	<1.0	<1.0	<1.0	<1.0
SB03	02/16/17	<1.0	<1.0	<1.0	<1.0
SB03	05/12/17	<1.0	<1.0	<1.0	<2.0
SB03	08/24/17	<1.0	<1.0	<1.0	<2.0
SB03	11/20/17	<1.0	<1.0	<1.0	<2.0
SB03	02/26/18	<1.0	<1.0	<1.0	<2.0
SB04	02/24/14	72.3	<1.0	<1.0	<1.0
SB04	05/19/14	6.4	<5.0	<1.0	<3.0
SB04	08/29/14	42	<5.0	<1.0	<3.0
SB04	11/21/14	7.9	<5.0	<1.0	<3.0
SB04	02/13/15	8.8	<5.0	<1.0	<3.0
SB04	05/21/15	100	<5.0	6.1	4.8
SB04	08/27/15	174	<5.0	3.26	3.28
SB04	11/24/15	1,760	<125	543	371
SB04	02/22/16	1,010	<5.0	223	366
SB04	05/23/16	490	<1.0	300	150
SB04	08/15/16	910	<1.0	640	150
SB04	11/21/16	970	1.4	1,100	<1.0
SB04	02/16/17	770	1.3	1,100	22
SB04	05/12/17	620	1.5	930	64
SB04	08/24/17	36	1.9	150	31
SB04 ³	11/20/17	53	<1.0	110	<2.0
SB04	02/26/18	280	13	560	23
SB05	02/24/14	Not Sampled - LNAPL Present			
SB05	05/19/14	Not Sampled - LNAPL Present			
SB05	08/29/14	Not Sampled - LNAPL Present			
SB05	11/21/14	Not Sampled - LNAPL Present			

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene ($\mu\text{g}/\text{L}$)	Toluene ($\mu\text{g}/\text{L}$)	Ethylbenzene ($\mu\text{g}/\text{L}$)	Total Xylenes ($\mu\text{g}/\text{L}$)
COGCC Groundwater Standard ($\mu\text{g}/\text{L}$)		5	560	700	1,400
SB05	02/13/15			Not Sampled - LNAPL Present	
SB05	05/21/15			Not Sampled - LNAPL Present	
SB05	08/27/15			Not Sampled - LNAPL Present	
SB05	11/24/15			Not Sampled - LNAPL Present	
SB05	02/22/16			Not Sampled - LNAPL Present	
SB05	05/23/16			Not Sampled - LNAPL Present	
SB05	08/15/16			Not Sampled - LNAPL Present	
SB05	11/21/16			Not Sampled - LNAPL Present	
SB05	02/16/17			Not Sampled - LNAPL Present	
SB05	05/12/17			Not Sampled - LNAPL Present	
SB05	08/24/17			Not Sampled - LNAPL Present	
SB05	11/20/17			Not Sampled - LNAPL Present	
SB05	02/26/18			Not Sampled - LNAPL Present	
SB06	02/24/14	<1.0	<1.0	<1.0	<1.0
SB06	05/19/14	<1.0	<5.0	<1.0	<3.0
SB06	08/29/14	<1.0	<5.0	<1.0	<3.0
SB06	11/21/14	<1.0	<5.0	<1.0	<3.0
SB06	02/13/15	<1.0	<5.0	<1.0	<3.0
SB06	05/21/15	<1.0	<5.0	<1.0	<3.0
SB06	08/27/15	23.2	<5.0	<1.0	4.97
SB06	11/24/15	2.39	<5.0	<1.0	<3.0
SB06	02/22/16	2.48	<5.0	<1.0	<3.0
SB06	05/23/16	2.6	<1.0	<1.0	2.7
SB06	08/15/16	<1.0	<1.0	<1.0	<1.0
SB06	11/21/16	<1.0	<1.0	<1.0	<1.0
SB06	02/16/17	2.0	<1.0	2.1	<1.0
SB06	05/12/17	<1.0	<1.0	<1.0	<2.0
SB06	08/24/17	<1.0	<1.0	<1.0	2.3
SB06	11/20/17	<1.0	<1.0	<1.0	<2.0
SB06	02/26/18	<1.0	<1.0	<1.0	<2.0
SB07	02/24/14	8,600	9,910	54.0	1,800
SB07	05/19/14	7,800	9,900	88	3,200
SB07	08/29/14	5,900	<2,500	<500	<1,500
SB07	11/21/14	8,600	6,000	<500	3,600
SB07	02/13/15	2,200	<250	<50	310
SB07	05/21/15	4,400	720	<50	430
SB07	08/27/15	642	784	<50	336
SB07	11/24/15	9,560	27,000	445	8,730
SB07	02/22/16	7,860	10,400	304	6,720
SB07	05/23/16	9,900	2,000	500	6,200
SB07	08/15/16	4,200	350	220	2,100
SB07	11/21/16	1,100	110	60	560
SB07	02/16/17	3,500	230	270	5,800
SB07	05/12/17	2,700	66	200	5,400

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)
COGCC Groundwater Standard ($\mu\text{g/L}$)		5	560	700	1,400
SB07	08/24/17	2,300	300	160	3,700
SB07	11/20/17	1,800	160	170	2,700
SB07	02/26/18	1,900	140	250	1,600
SB08	02/24/14		Not Sampled - LNAPL Present		
SB08	05/19/14	5,500	12,000	480	10,000
SB08	08/29/14	5,000	4,100	600	12,000
SB08	11/21/14		Not Sampled - LNAPL Present		
SB08	02/13/15		Not Sampled - LNAPL Present		
SB08	05/21/15		Not Sampled - LNAPL Present		
SB08	08/27/15	4,710	7,120	252	8,720
SB08	11/24/15		Not Sampled - LNAPL Present		
SB08	02/22/16	3,600	5,950	459	10,100
SB08	05/23/16	5,200	5,000	920	16,000
SB08	08/15/16	6,400	5,300	780	17,000
SB08	11/21/16	6,500	6,100	840	13,000
SB08	02/16/17	4,600	5,000	750	13,000
SB08	05/12/17	5,400	4,800	530	12,000
SB08	08/24/17	4,800	3,000	770	12,000
SB08	11/20/17	6,200	750	440	10,000
SB08	02/26/18	6,100	630	540	9,100
SB09	02/24/14		Not Sampled - LNAPL Present		
SB09	05/19/14		Not Sampled - LNAPL Present		
SB09	08/29/14		Not Sampled - LNAPL Present		
SB09	11/21/14		Not Sampled - LNAPL Present		
SB09	02/13/15		Not Sampled - LNAPL Present		
SB09	05/21/15		Not Sampled - LNAPL Present		
SB09	08/27/15		Not Sampled - LNAPL Present		
SB09	11/24/15		Not Sampled - LNAPL Present		
SB09	02/22/16		Not Sampled - LNAPL Present		
SB09	05/23/16		Not Sampled - LNAPL Present		
SB09	08/15/16		Not Sampled - LNAPL Present		
SB09	11/21/16		Not Sampled - LNAPL Present		
SB09	02/16/17		Not Sampled - LNAPL Present		
SB09	05/12/17		Not Sampled - LNAPL Present		
SB09	08/24/17		Not Sampled - LNAPL Present		
SB09	11/20/17		Not Sampled - LNAPL Present		
SB09	02/26/18		Not Sampled - LNAPL Present		
SB10	02/24/14		Not Sampled - LNAPL Present		
SB10	05/19/14	14,000	18,000	640	12,000
SB10	08/29/14		Not Sampled - LNAPL Present		
SB10	11/21/14	15,000	24,000	1,100	21,000
SB10	02/13/15	15,000	33,000	620	13,000
SB10	05/21/15		Not Sampled - LNAPL Present		
SB10	08/27/15	14,900	32,900	713	11,300

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)
COGCC Groundwater Standard ($\mu\text{g/L}$)		5	560	700	1,400
SB10	11/24/15	9,920	20,700	<1,000	9,280
SB10	02/22/16	3,520	6,670	458	9,620
SB10	05/23/16	7,200	16,000	1,200	18,000
SB10	08/15/16	6,700	14,000	710	18,000
SB10	11/21/16	6,900	5,600	1,000	13,000
SB10	02/16/17	4,800	2,600	790	10,000
SB10	05/12/17	5,700	2,700	590	10,000
SB10	08/24/17	4,900	1,300	880	8,900
SB10	11/20/17	3,500	140	450	6,400
SB10	02/26/18	1,800	16	380	3,200
SB11	02/24/14	1,550	<1.0	127	<1.0
SB11	05/19/14	49	<5.0	<1.0	<3.0
SB11	08/29/14	170	<5.0	20	<3.0
SB11	11/21/14	250	<5.0	22	<3.0
SB11	02/13/15	94	<5.0	28	<3.0
SB11	05/21/15	120	<5.0	16	<3.0
SB11	08/27/15	48.2	<5.0	<1.0	3.61
SB11	11/24/15	50.6	<5.0	111	<3.0
SB11	02/22/16	11.5	<5.0	59.4	<3.0
SB11	05/23/16	64	<1.0	38	<1.0
SB11	08/15/16	<1.0	<1.0	<1.0	<1.0
SB11	11/21/16	2.1	<1.0	14	<1.0
SB11	02/16/17	<1.0	<1.0	<1.0	<1.0
SB11	05/12/17	<1.0	<1.0	<1.0	<2.0
SB11	08/24/17	<1.0	<1.0	<1.0	<2.0
SB11	11/20/17	<1.0	<1.0	<1.0	<2.0
SB11	02/26/18	1.6	<1.0	1.1	7.4
SB12	02/24/14	<1.0	<1.0	<1.0	<1.0
SB12	05/19/14	<1.0	<5.0	<1.0	<3.0
SB12	08/29/14	<1.0	<5.0	<1.0	<3.0
SB12	11/21/14	<1.0	<5.0	<1.0	<3.0
SB12	02/13/15	<1.0	<5.0	<1.0	<3.0
SB12	05/21/15	<1.0	<5.0	<1.0	<3.0
SB12	08/27/15	<1.0	<5.0	<1.0	<3.0
SB12	11/24/15	<1.0	<5.0	<1.0	<3.0
SB12	02/22/16	<1.0	<5.0	<1.0	<3.0
SB12	05/23/16	<1.0	<1.0	<1.0	<1.0
SB12	08/15/16	<1.0	<1.0	<1.0	<1.0
SB12	11/21/16	<1.0	<1.0	<1.0	<1.0
SB12	02/16/17	<1.0	<1.0	<1.0	<1.0
SB12	05/12/17		Well Not Sampled This Event ²		
SB12	08/24/17	<1.0	<1.0	<1.0	<2.0
SB12	11/20/17	<1.0	<1.0	<1.0	<2.0
SB12	02/26/18	<1.0	<1.0	<1.0	<2.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene ($\mu\text{g}/\text{L}$)	Toluene ($\mu\text{g}/\text{L}$)	Ethylbenzene ($\mu\text{g}/\text{L}$)	Total Xylenes ($\mu\text{g}/\text{L}$)
COGCC Groundwater Standard ($\mu\text{g}/\text{L}$)		5	560	700	1,400
SB13	02/24/14	<1.0	<1.0	<1.0	1.4
SB13	05/19/14	<1.0	<5.0	<1.0	<3.0
SB13	08/29/14	1.3	<5.0	<1.0	<3.0
SB13	11/21/14	<1.0	<5.0	<1.0	<3.0
SB13	02/13/15	<1.0	<5.0	<1.0	<3.0
SB13	05/21/15	<1.0	<5.0	<1.0	<3.0
SB13	08/27/15	<1.0	<5.0	<1.0	<3.0
SB13	11/24/15	1.15	<5.0	<1.0	<3.0
SB13	02/22/16	10.6	<5.0	8.85	16
SB13	05/23/16	14	7.0	40	40
SB13	08/15/16	<1.0	<1.0	<1.0	<1.0
SB13	11/21/16	30	2.8	31	57
SB13	02/16/17	51	1.6	61	42
SB13	05/12/17	21	<1.0	48	<2.0
SB13	08/24/17	<1.0	<1.0	<1.0	<2.0
SB13	11/20/17	<1.0	<1.0	6.2	<2.0
SB13	02/26/18	1.4	<1.0	<1.0	<2.0
SB14	02/24/14	1,220	62.4	88.3	314
SB14	05/19/14	140	<5.0	1.4	4.8
SB14	08/29/14	2,600	<5.0	130	50
SB14	11/21/14	2,100	<500	120	<300
SB14	02/13/15	1,700	<100	210	<60
SB14	05/21/15	1,400	<100	310	<60
SB14	08/27/15	2,570	<100	394	<60
SB14	11/24/15	5,070	334	978	797
SB14	02/22/16	4,390	648	717	1,080
SB14	05/23/16	2,600	8.8	1,200	170
SB14	08/15/16	1,700	<1.0	1.9	48
SB14	11/21/16	400	1.6	680	53
SB14	02/16/17	<1.0	<1.0	<1.0	<1.0
SB14	05/12/17	15	<1.0	180	<2.0
SB14	08/24/17	<1.0	<1.0	<1.0	<2.0
SB14	11/20/17	1.8	<1.0	<1.0	<2.0
SB14	02/26/18	3.2	<1.0	<1.0	<2.0
SB15	02/24/14	4,610	8,690	553	10,900
SB15	05/19/14	3,900	2,500	530	9,700
SB15	08/29/14	2,000	<120	700	4,100
SB15	11/21/14	480	<120	190	880
SB15	02/13/15	100	<25	70	420
SB15	05/21/15	64	<25	30	230
SB15	08/27/15	91.7	<25	40.8	379
SB15	11/24/15	8.84	<5.0	<1.0	5.11
SB15	02/22/16	10.8	<5.0	<1.0	8.21
SB15	05/23/16	4.1	<1.0	5.7	26

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)
COGCC Groundwater Standard ($\mu\text{g/L}$)		5	560	700	1,400
SB15	08/15/16	<1.0	<1.0	<1.0	<1.0
SB15	11/21/16	<1.0	<1.0	<1.0	<1.0
SB15	02/16/17	<1.0	<1.0	<1.0	<1.0
SB15	05/12/17	14	<1.0	<1.0	2.1
SB15	08/24/17	<1.0	<1.0	<1.0	<2.0
SB15	11/20/17	<1.0	<1.0	<1.0	<2.0
SB15	02/26/18	<1.0	<1.0	<1.0	<2.0
SB16	02/24/14			Not Sampled - Insufficient Water	
SB16	05/19/14			Not Sampled - Insufficient Water	
SB16	08/29/14			Not Sampled - Insufficient Water	
SB16	11/21/14			Not Sampled - Insufficient Water	
SB16	02/13/15			Not Sampled - Insufficient Water	
SB16	05/21/15			Not Sampled - Insufficient Water	
SB16	08/27/15			Removed From Groundwater Monitoring Program - Plugged and Abandoned	
SB16R	02/24/14			Not Sampled - LNAPL Present	
SB16R	05/19/14	6,000	26,000	770	14,000
SB16R	08/29/14			Not Sampled - LNAPL Present	
SB16R	11/21/14			Not Sampled - LNAPL Present	
SB16R	02/13/15			Not Sampled - LNAPL Present	
SB16R	05/21/15			Not Sampled - LNAPL Present	
SB16R	08/27/15			Not Sampled - LNAPL Present	
SB16R	11/24/15			Not Sampled - LNAPL Present	
SB16R	02/22/16			Not Sampled - LNAPL Present	
SB16R	05/23/16			Not Sampled - LNAPL Present	
SB16R	08/15/16			Not Sampled - LNAPL Present	
SB16R	11/21/16			Not Sampled - LNAPL Present	
SB16R	02/16/17			Not Sampled - LNAPL Present	
SB16R	05/12/17			Not Sampled - Monitoring Well Damaged and Removed from Monitoring Program	
SB16R2	08/24/17	1,200	3,100	45	2,300
SB16R2	11/20/17			Not Sampled - LNAPL Present	
SB16R2	02/27/18			Not Sampled - LNAPL Present	
SB17	02/24/14	<1.0	<1.0	<1.0	<1.0
SB17	05/19/14	<1.0	<5.0	<1.0	<3.0
SB17	08/29/14	<1.0	<5.0	<1.0	<3.0
SB17	11/21/14	<1.0	<5.0	<1.0	<3.0
SB17	02/13/15	<1.0	<5.0	<1.0	<3.0
SB17	05/21/15	<1.0	<5.0	<1.0	<3.0
SB17	08/27/15	<1.0	<5.0	<1.0	<3.0
SB17	11/24/15	<1.0	<5.0	<1.0	<3.0
SB17	02/22/16	<1.0	<5.0	<1.0	<3.0
SB17	05/23/16	<1.0	<1.0	<1.0	<1.0
SB17	08/15/16	<1.0	<1.0	<1.0	<1.0
SB17	11/21/16	<1.0	<1.0	<1.0	<1.0
SB17	02/16/17	<1.0	<1.0	<1.0	<1.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene ($\mu\text{g}/\text{L}$)	Toluene ($\mu\text{g}/\text{L}$)	Ethylbenzene ($\mu\text{g}/\text{L}$)	Total Xylenes ($\mu\text{g}/\text{L}$)
COGCC Groundwater Standard ($\mu\text{g}/\text{L}$)		5	560	700	1,400
SB17	05/12/17	<1.0	<1.0	<1.0	<2.0
SB17	08/24/17	<1.0	<1.0	<1.0	<2.0
SB17	11/20/17	<1.0	<1.0	<1.0	<2.0
SB17	02/26/18	<1.0	<1.0	<1.0	<2.0
SB18	02/24/14	<1.0	<1.0	<1.0	<1.0
SB18	05/19/14	<1.0	<5.0	<1.0	<3.0
SB18	08/29/14	<1.0	<5.0	<1.0	<3.0
SB18	11/21/14	<1.0	<5.0	<1.0	<3.0
SB18	02/13/15	<1.0	<5.0	<1.0	<3.0
SB18	05/21/15	<1.0	<5.0	<1.0	<3.0
SB18	08/27/15	<1.0	<5.0	<1.0	<3.0
SB18	11/24/15	<1.0	<5.0	<1.0	<3.0
SB18	02/22/16	<1.0	<5.0	<1.0	<3.0
SB18	05/23/16	1.9	<1.0	<1.0	<1.0
SB18	08/15/16	<1.0	<1.0	<1.0	<1.0
SB18	11/21/16	<1.0	<1.0	<1.0	<1.0
SB18	02/16/17	<1.0	<1.0	<1.0	<1.0
SB18	05/12/17	<1.0	<1.0	<1.0	<2.0
SB18	08/24/17	Not Sampled - Removed From Groundwater Monitoring Program			
SB19	02/24/14	<1.0	<1.0	<1.0	<1.0
SB19	05/19/14	<1.0	<5.0	<1.0	<3.0
SB19	08/29/14	<1.0	<5.0	<1.0	3.4
SB19	11/21/14	<1.0	<5.0	<1.0	<3.0
SB19	02/13/15	<1.0	<5.0	<1.0	<3.0
SB19	05/21/15	<1.0	<5.0	<1.0	<3.0
SB19	08/27/15	<1.0	<5.0	<1.0	<3.0
SB19	11/24/15	<1.0	<5.0	<1.0	<3.0
SB19	02/22/16	<1.0	<5.0	<1.0	<3.0
SB19	05/23/16	<1.0	<1.0	<1.0	<1.0
SB19	08/15/16	<1.0	<1.0	<1.0	<1.0
SB19	11/21/16	<1.0	<1.0	<1.0	<1.0
SB19	02/16/17	<1.0	<1.0	<1.0	<1.0
SB19	05/12/17	<1.0	<1.0	<1.0	<2.0
SB19	08/24/17	<1.0	<1.0	<1.0	<2.0
SB19	11/20/17	<1.0	<1.0	<1.0	<2.0
SB19	02/26/18	<1.0	<1.0	<1.0	<2.0
SB20	02/24/14	Not Sampled - Insufficient Water			
SB20	05/19/14	<1.0	<5.0	<1.0	<3.0
SB20	08/29/14	<1.0	<5.0	<1.0	3.5
SB20	11/21/14	<1.0	<5.0	<1.0	<3.0
SB20	02/13/15	<1.0	<5.0	<1.0	<3.0
SB20	05/21/15	<1.0	<5.0	<1.0	<3.0
SB20	08/27/15	<1.0	<5.0	<1.0	<3.0
SB20	11/24/15	<1.0	<5.0	<1.0	<3.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)
COGCC Groundwater Standard ($\mu\text{g/L}$)		5	560	700	1,400
SB20	02/22/16	<1.0	<5.0	<1.0	<3.0
SB20	05/23/16	<1.0	<1.0	<1.0	<1.0
SB20	08/15/16	<1.0	<1.0	<1.0	<1.0
SB20	11/21/16	<1.0	<1.0	<1.0	<1.0
SB20	02/16/17	<1.0	<1.0	<1.0	<1.0
SB20	05/12/17	<1.0	<1.0	<1.0	<2.0
SB20	08/24/17	<1.0	<1.0	<1.0	<2.0
SB20	11/20/17	<1.0	<1.0	<1.0	<2.0
SB20	02/26/18	<1.0	<1.0	<1.0	<2.0
SB20R	02/24/14			Not Sampled - Insufficient Water	
SB20R	05/19/14			Not Sampled - Insufficient Water	
SB20R	08/29/14			Not Sampled - Insufficient Water	
SB20R	11/21/14			Not Sampled - Insufficient Water	
SB20R	02/13/15			Not Sampled - Insufficient Water	
SB20R	05/21/15			Not Sampled - Insufficient Water	
SB20R	08/27/15			Removed From Groundwater Monitoring Program - Plugged and Abandoned	
SB21	02/24/14			Not Sampled - LNAPL Present	
SB21	05/19/14			Not Sampled - LNAPL Present	
SB21	08/29/14			Not Sampled - LNAPL Present	
SB21	11/21/14			Not Sampled - LNAPL Present	
SB21	02/13/15			Not Sampled - LNAPL Present	
SB21	05/21/15			Not Sampled - LNAPL Present	
SB21	08/27/15			Not Sampled - LNAPL Present	
SB21	11/24/15			Not Sampled - LNAPL Present	
SB21	02/22/16			Not Sampled - LNAPL Present	
SB21	05/23/16			Not Sampled - LNAPL Present	
SB21	08/15/16			Not Sampled - LNAPL Present	
SB21	11/21/16			Not Sampled - LNAPL Present	
SB21	02/16/17			Not Sampled - LNAPL Present	
SB21	05/12/17			Not Sampled - LNAPL Present	
SB21	08/24/17			Not Sampled - LNAPL Present	
SB21	11/20/17			Not Sampled - LNAPL Present	
SB21	02/26/18			Not Sampled - LNAPL Present	
SB22	02/24/14			Not Sampled - Insufficient Water	
SB22	05/19/14			Not Sampled - Insufficient Water	
SB22	08/29/14			Not Sampled - Insufficient Water	
SB22	11/21/14			Not Sampled - Insufficient Water	
SB22	02/13/15			Not Sampled - Insufficient Water	
SB22	05/21/15			Not Sampled - Insufficient Water	
SB22	08/27/15			Removed From Groundwater Monitoring Program - Plugged and Abandoned	
SB22R	02/24/14	270	1,190	6.9	598
SB22R	05/19/14	110	1,900	5.0	1,600
SB22R	08/29/14	270	730	19	2,100
SB22R	11/21/14	110	220	<10	1,100

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)
COGCC Groundwater Standard ($\mu\text{g/L}$)		5	560	700	1,400
SB22R	02/13/15	22	5.5	2.4	110
SB22R	05/21/15	31	<5.0	<1.0	140
SB22R	08/27/15	<1.0	<5.1	<1.1	8.46
SB22R	11/24/15	2.34	<5.2	<1.2	21.8
SB22R	02/22/16	86.4	829	31.0	2,380
SB22R	05/23/16	190	150	43	750
SB22R	08/15/16	<1.0	<1.0	<1.0	<1.0
SB22R	11/21/16	2.2	2.7	2.5	<1.0
SB22R	02/16/17	4.4	<1.0	2.0	1.1
SB22R	05/12/17	1.5	1.6	<1.0	<2.0
SB22R	08/24/17	<1.0	<1.0	<1.0	<2.0
SB22R	11/20/17	1.1	2.0	<1.0	3.8
SB22R	02/26/18	18	44	6.5	140
SB23	02/24/14		Not Sampled - LNAPL Present		
SB23	05/19/14		Not Sampled - LNAPL Present		
SB23	08/29/14		Not Sampled - LNAPL Present		
SB23	11/21/14		Not Sampled - LNAPL Present		
SB23	02/13/15		Not Sampled - LNAPL Present		
SB23	05/21/15		Not Sampled - LNAPL Present		
SB23	08/27/15		Not Sampled - Insufficient Water		
SB23	11/24/15		Not Sampled - Insufficient Water		
SB23	02/22/16		Not Sampled - Insufficient Water		
SB23	05/23/16		Not Sampled - Insufficient Water		
SB23	08/15/16		Not Sampled - Insufficient Water		
SB23	11/21/16		Not Sampled - Insufficient Water		
SB23	02/16/17		Not Sampled - Insufficient Water		
SB23	05/12/17		Not Sampled - Removed From Groundwater Monitoring Program		
SB23R	08/24/17		Not Sampled - LNAPL Present		
SB23R	11/20/17	6,500	24,000	540	18,000
SB23R	02/26/18		Not Sampled - LNAPL Present		
SB24	02/24/14		Not Sampled - Insufficient Water		
SB24	05/19/14		Not Sampled - Insufficient Water		
SB24	08/29/14		Not Sampled - Insufficient Water		
SB24	11/21/14		Not Sampled - Insufficient Water		
SB24	02/13/15		Not Sampled - Insufficient Water		
SB24	05/21/15		Not Sampled - Insufficient Water		
SB24	08/27/15		Removed From Groundwater Monitoring Program - Plugged and Abandoned		
SB24R	02/24/14	<1.0	<1.0	<1.0	<1.0
SB24R	05/19/14	1.3	<5.0	<1.0	<3.0
SB24R	08/29/14	<1.0	<5.0	<1.0	<3.0
SB24R	11/21/14	<1.0	<5.0	<1.0	<3.0
SB24R	02/13/15	<1.0	<5.0	<1.0	4.0
SB24R	05/21/15	<1.0	<5.0	<1.0	<3.0
SB24R	08/27/15	<1.0	<5.0	<1.0	<3.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene ($\mu\text{g}/\text{L}$)	Toluene ($\mu\text{g}/\text{L}$)	Ethylbenzene ($\mu\text{g}/\text{L}$)	Total Xylenes ($\mu\text{g}/\text{L}$)
COGCC Groundwater Standard ($\mu\text{g}/\text{L}$)		5	560	700	1,400
SB24R	11/24/15	<1.0	<5.0	<1.0	<3.0
SB24R	02/22/16	<1.0	<5.0	<1.0	<3.0
SB24R	05/23/16	<1.0	<1.0	<1.0	<1.0
SB24R	08/15/16	<1.0	<1.0	<1.0	<1.0
SB24R	11/21/16	<1.0	<1.0	<1.0	<1.0
SB24R	02/16/17	<1.0	<1.0	<1.0	<1.0
SB24R	05/12/17	Not Sampled - Removed From Groundwater Monitoring Program			
SB25	02/24/14	Not Sampled - Insufficient Water			
SB25	05/19/14	Not Sampled - Insufficient Water			
SB25	08/29/14	Not Sampled - Insufficient Water			
SB25	11/21/14	Not Sampled - Insufficient Water			
SB25	02/13/15	Not Sampled - Insufficient Water			
SB25	05/21/15	Not Sampled - Insufficient Water			
SB25	08/27/15	Removed From Groundwater Monitoring Program - Plugged and Abandoned			
SB25R	02/24/14	<1.0	<1.0	<1.0	<1.0
SB25R	05/19/14	<1.0	<5.0	<1.0	<3.0
SB25R	08/29/14	<1.0	<5.0	<1.0	<3.0
SB25R	11/21/14	<1.0	<5.0	<1.0	<3.0
SB25R	02/13/15	<1.0	<5.0	<1.0	<3.0
SB25R	05/21/15	<1.0	<5.0	<1.0	<3.0
SB25R	08/27/15	<1.0	<5.0	<1.0	<3.0
SB25R	11/24/15	<1.0	<5.0	<1.0	<3.0
SB25R	02/22/16	<1.0	<5.0	<1.0	<3.0
SB25R	05/23/16	<1.0	<1.0	<1.0	<1.0
SB25R	08/15/16	<1.0	<1.0	<1.0	<1.0
SB25R	11/21/16	<1.0	<1.0	<1.0	<1.0
SB25R	02/16/17	<1.0	<1.0	<1.0	<1.0
SB25R	05/12/17	<1.0	<1.0	<1.0	<2.0
SB25R	08/24/17	<1.0	<1.0	<1.0	<2.0
SB25R	11/20/17	<1.0	<1.0	<1.0	<2.0
SB25R	02/26/18	<1.0	<1.0	<1.0	<2.0
SB26	02/24/14	<1.0	<1.0	<1.0	<1.0
SB26	05/19/14	3.0	<5.0	<1.0	<3.0
SB26	08/29/14	<1.0	<5.0	<1.0	<3.0
SB26	11/21/14	<1.0	<5.0	<1.0	<3.0
SB26	02/13/15	<1.0	<5.0	<1.0	<3.0
SB26	05/21/15	<1.0	<5.0	<1.0	<3.0
SB26	08/27/15	<1.0	<5.0	<1.0	<3.0
SB26	11/24/15	<1.0	<5.0	<1.0	<3.0
SB26	02/22/16	<1.0	<5.0	<1.0	<3.0
SB26	05/23/16	<1.0	<1.0	<1.0	<1.0
SB26	08/15/16	<1.0	<1.0	<1.0	<1.0
SB26	11/21/16	<1.0	<1.0	<1.0	<1.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene ($\mu\text{g}/\text{L}$)	Toluene ($\mu\text{g}/\text{L}$)	Ethylbenzene ($\mu\text{g}/\text{L}$)	Total Xylenes ($\mu\text{g}/\text{L}$)
COGCC Groundwater Standard ($\mu\text{g}/\text{L}$)		5	560	700	1,400
SB26	02/16/17	<1.0	<1.0	<1.0	<1.0
SB26	05/12/17		Not Sampled - Removed From Groundwater Monitoring Program		
SB27	02/24/14		Not Sampled - Insufficient Water		
SB27	05/19/14		Not Sampled - Insufficient Water		
SB27	08/29/14		Not Sampled - Insufficient Water		
SB27	11/21/14		Not Sampled - Insufficient Water		
SB27	02/13/15		Not Sampled - Insufficient Water		
SB27	05/21/15		Not Sampled - Insufficient Water		
SB27	08/27/15		Removed From Groundwater Monitoring Program - Plugged and Abandoned		
SB27R	02/24/14	<1.0	<1.0	<1.0	<1.0
SB27R	05/19/14	16	<5.0	<1.0	<3.0
SB27R	08/29/14	<1.0	<5.0	<1.0	<3.0
SB27R	11/21/14	<1.0	<5.0	<1.0	<3.0
SB27R	02/13/15	<1.0	<5.0	<1.0	<3.0
SB27R	05/21/15	<1.0	<5.0	<1.0	<3.0
SB27R	08/27/15	<1.00	<5.00	<1.00	<3.00
SB27R	11/24/15	<1.00	<5.00	<1.00	<3.00
SB27R	02/22/16	<1.00	<5.00	<1.00	<3.00
SB27R	05/23/16	<1.0	<1.0	<1.0	<1.0
SB27R	08/15/16	<1.0	<1.0	<1.0	<1.0
SB27R	11/21/16	<1.0	<1.0	<1.0	<1.0
SB27R	02/16/17	<1.0	<1.0	<1.0	<1.0
SB27R	05/12/17	<1.0	<1.0	<1.0	<2.0
SB27R	08/24/17	<1.0	<1.0	<1.0	<2.0
SB27R	11/20/17	<1.0	<1.0	<1.0	11
SB27R	02/26/18	<1.0	<1.0	<1.0	<2.0
SB28	02/24/14		Not Sampled - Insufficient Water		
SB28	05/19/14		Not Sampled - Insufficient Water		
SB28	08/29/14		Not Sampled - Insufficient Water		
SB28	11/21/14		Not Sampled - Insufficient Water		
SB28	02/13/15		Not Sampled - Insufficient Water		
SB28	05/21/15		Not Sampled - Insufficient Water		
SB28	08/27/15		Removed From Groundwater Monitoring Program - Plugged and Abandoned		
SB28R	02/24/14	<1.0	<1.0	<1.0	3.01
SB28R	05/19/14	<1.0	<5.0	<1.0	<3.0
SB28R	08/29/14	<1.0	<5.0	<1.0	<3.0
SB28R	11/21/14	<1.0	<5.0	<1.0	<3.0
SB28R	02/13/15	<1.0	<5.0	<1.0	<3.0
SB28R	05/21/15	<1.0	<5.0	<1.0	<3.0
SB28R	08/27/15	<1.0	<5.0	<1.0	<3.0
SB28R	11/24/15	<1.0	<5.0	<1.0	<3.0
SB28R	02/22/16	<1.0	<5.0	<1.0	<3.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene ($\mu\text{g}/\text{L}$)	Toluene ($\mu\text{g}/\text{L}$)	Ethylbenzene ($\mu\text{g}/\text{L}$)	Total Xylenes ($\mu\text{g}/\text{L}$)
COGCC Groundwater Standard ($\mu\text{g}/\text{L}$)		5	560	700	1,400
SB28R	05/23/16	<1.0	<1.0	<1.0	<1.0
SB28R	08/15/16	<1.0	<1.0	<1.0	<1.0
SB28R	11/21/16		Not Sampled - Insufficient Water		
SB28R	02/16/17	<1.0	<1.0	<1.0	<1.0
SB28R	05/12/17	<1.0	<1.0	<1.0	<2.0
SB28R ¹	08/24/17	<1.0	<1.0	<1.0	<2.0
SB28R ¹	11/20/17	<1.0	<1.0	<1.0	<2.0
SB28R ¹	02/26/18	<1.0	<1.0	<1.0	<2.0
SB29	02/24/14	<1.0	<1.0	<1.0	<1.0
SB29	05/19/14	<1.0	<5.0	<1.0	<3.0
SB29	08/29/14	<1.0	<5.0	<1.0	<3.0
SB29	11/21/14	<1.0	<5.0	<1.0	<3.0
SB29	02/13/15	<1.0	<5.0	<1.0	<3.0
SB29	05/21/15	<1.0	<5.0	<1.0	<3.0
SB29	08/27/15	<1.0	<5.0	<1.0	<3.0
SB29	11/24/15	<1.0	<5.0	<1.0	<3.0
SB29	02/22/16	<1.0	<5.0	<1.0	<3.0
SB29	05/23/16	<1.0	<1.0	<1.0	<1.0
SB29	08/15/16	<1.0	<1.0	<1.0	<1.0
SB29	11/21/16	<1.0	<1.0	<1.0	<1.0
SB29	02/16/17	<1.0	<1.0	<1.0	<1.0
SB29	05/12/17		Not Sampled - Removed From Groundwater Monitoring Program		
SB30	02/24/14		Not Sampled - LNAPL Present		
SB30	05/19/14		Not Sampled - LNAPL Present		
SB30	08/29/14		Not Sampled - LNAPL Present		
SB30	11/21/14		Not Sampled - LNAPL Present		
SB30	02/13/15		Not Sampled - LNAPL Present		
SB30	05/21/15		Not Sampled - LNAPL Present		
SB30	08/27/15		Not Sampled - LNAPL Present		
SB30	11/24/15		Not Sampled - LNAPL Present		
SB30	02/22/16		Not Sampled - LNAPL Present		
SB30	02/22/16		Not Sampled - LNAPL Present		
SB30	08/15/16		Not Sampled - LNAPL Present		
SB30	11/21/16		Not Sampled - LNAPL Present		
SB30	02/16/17		Not Sampled - LNAPL Present		
SB30	05/12/17		Not Sampled - Spill Buster Present		
SB30	08/24/17		Not Sampled - LNAPL Present		
SB30	11/20/17		Not Sampled - LNAPL Present		
SB30	02/26/18		Not Sampled - LNAPL Present		
SB31	02/24/14		Not Sampled - LNAPL Present		
SB31	05/19/14		Not Sampled - LNAPL Present		
SB31	08/29/14		Not Sampled - LNAPL Present		

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene ($\mu\text{g}/\text{L}$)	Toluene ($\mu\text{g}/\text{L}$)	Ethylbenzene ($\mu\text{g}/\text{L}$)	Total Xylenes ($\mu\text{g}/\text{L}$)
COGCC Groundwater Standard ($\mu\text{g}/\text{L}$)		5	560	700	1,400
SB31	11/21/14			Not Sampled - LNAPL Present	
SB31	02/13/15			Not Sampled - LNAPL Present	
SB31	05/21/15			Not Sampled - LNAPL Present	
SB31	08/27/15			Not Sampled - LNAPL Present	
SB31	02/22/16			Not Sampled - LNAPL Present	
SB31	02/22/16			Not Sampled - LNAPL Present	
SB31	05/23/16			Not Sampled - LNAPL Present	
SB31	08/15/16			Not Sampled - LNAPL Present	
SB31	11/21/16			Not Sampled - LNAPL Present	
SB31	02/16/17			Not Sampled - LNAPL Present	
SB31	05/12/17			Not Sampled - Spill Buster Present	
SB31	08/24/17			Not Sampled - LNAPL Present	
SB31	11/20/17			Not Sampled - LNAPL Present	
SB31	02/26/18			Not Sampled - LNAPL Present	
SB32	02/24/14	1.1	6.2	<1.0	7.3
SB32	03/31/14	3.6	15	<1.0	18
SB32	05/19/14	5.2	38	1.2	91
SB32	08/29/14	4.9	30	1.8	220
SB32	11/21/14	<1.0	<5.0	<1.0	7.1
SB32	02/13/15	<1.0	<5.0	<1.0	<3.0
SB32	05/21/15	<1.0	<5.0	<1.0	3.3
SB32	08/27/15			Not Sampled - Insufficient Water	
SB32	11/24/15			Not Sampled - Insufficient Water	
SB32	02/22/16			Not Sampled - Insufficient Water	
SB32	05/23/16			Not Sampled - Insufficient Water	
SB32	08/15/16			Not Sampled - Insufficient Water	
SB32	11/21/16			Not Sampled - Insufficient Water	
SB32	02/16/17			Not Sampled - Insufficient Water	
SB32	05/12/17			Not Sampled - Insufficient Water	
SB32	08/24/17			Not Sampled - Insufficient Water	
SB32	11/20/17			Not Sampled - Insufficient Water	
SB32	02/26/18			Not Sampled - Insufficient Water	
SB33	02/24/14			Not Sampled - Insufficient Water	
SB33	05/19/14			Not Sampled - Insufficient Water	
SB33	08/29/14	<1.0	<5.0	<1.0	<3.0
SB33	11/21/14	<1.0	<5.0	<1.0	<3.0
SB33	02/13/15	<1.0	<5.0	<1.0	6.2
SB33	05/21/15	<1.0	<5.0	<1.0	<3.0
SB33	08/27/15	<1.0	<5.0	<1.0	<3.0
SB33	11/24/15	<1.0	<5.0	<1.0	<3.0
SB33	02/22/16	<1.0	<5.0	<1.0	<3.0
SB33	05/23/16	<1.0	<1.0	<1.0	<1.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene ($\mu\text{g}/\text{L}$)	Toluene ($\mu\text{g}/\text{L}$)	Ethylbenzene ($\mu\text{g}/\text{L}$)	Total Xylenes ($\mu\text{g}/\text{L}$)
COGCC Groundwater Standard ($\mu\text{g}/\text{L}$)		5	560	700	1,400
SB33	08/15/16	<1.0	<1.0	<1.0	<1.0
SB33	11/21/16	<1.0	<1.0	<1.0	<1.0
SB33	02/16/17	<1.0	<1.0	<1.0	<1.0
SB33	05/12/17	Not Sampled - Removed From Groundwater Monitoring Program			
SB34	02/24/14	<1.0	<1.0	<1.0	<1.0
SB34	05/19/14	1.1	<5.0	<1.0	<3.0
SB34	08/29/14	<1.0	<5.0	<1.0	<3.0
SB34	11/21/14	<1.0	<5.0	<1.0	<3.0
SB34	02/13/15	<1.0	<5.0	<1.0	<3.0
SB34	05/21/15	<1.0	<5.0	<1.0	<3.0
SB34	08/27/15	<1.0	<5.0	<1.0	<3.0
SB34	11/24/15	<1.0	<5.0	<1.0	<3.0
SB34	02/22/16	<1.0	<5.0	<1.0	<3.0
SB34	05/23/16	<1.0	<1.0	<1.0	<1.0
SB34	08/15/16	<1.0	<1.0	<1.0	<1.0
SB34	11/21/16	<1.0	<1.0	<1.0	<1.0
SB34	02/16/17	<1.0	<1.0	<1.0	<1.0
SB34	05/12/17	Not Sampled - Removed From Groundwater Monitoring Program			
SB35	03/31/14	<1.0	<5.0	<1.0	<3.0
SB35	05/19/14	<1.0	<5.0	<1.0	<3.0
SB35	08/29/14	<1.0	<5.0	<1.0	<3.0
SB35	11/21/14	<1.0	<5.0	<1.0	<3.0
SB35	02/13/15	<1.0	<5.0	<1.0	<3.0
SB35	05/21/15	<1.0	<5.0	<1.0	<3.0
SB35	08/27/15	<1.0	<5.0	<1.0	<3.0
SB35	11/24/15	<1.0	<5.0	<1.0	<3.0
SB35	02/22/16	<1.0	<5.0	<1.0	<3.0
SB35	05/23/16	<1.0	<1.0	<1.0	<1.0
SB35	08/15/16	<1.0	<1.0	<1.0	<1.0
SB35	11/21/16	<1.0	<1.0	<1.0	<1.0
SB35	02/16/17	<1.0	<1.0	<1.0	<1.0
SB35	05/12/17	<1.0	<1.0	<1.0	<2.0
SB35	08/24/17	Not Sampled - Removed From Groundwater Monitoring Program			
SB36	03/31/14	77	<5.0	3.2	<3.0
SB36	05/19/14	220	<5.0	<1.0	<3.0
SB36	08/29/14	240	<5.0	4.7	<3.0
SB36	11/21/14	120	<25	6	<15
SB36	02/13/15	64	<25	170	<15
SB36	05/21/15	36	<25	480	<15
SB36	08/27/15	140	<25	27.5	2,460
SB36	11/24/15	22.5	<5.0	<1.0	714
SB36	02/22/16	<5.0	<25	<5.0	114

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene ($\mu\text{g}/\text{L}$)	Toluene ($\mu\text{g}/\text{L}$)	Ethylbenzene ($\mu\text{g}/\text{L}$)	Total Xylenes ($\mu\text{g}/\text{L}$)
COGCC Groundwater Standard ($\mu\text{g}/\text{L}$)		5	560	700	1,400
SB36	05/23/16	<1.0	<1.0	<1.0	140
SB36	08/15/16	<1.0	<1.0	<1.0	21
SB36	11/21/16	3.2	1.5	21	160
SB36	02/16/17	4.4	<1.0	49	100
SB36	05/12/17	6.0	1.7	54	46
SB36	08/24/17	<1.0	<1.0	<1.0	<2.0
SB36	11/20/17	5.6	4.3	50	6.7
SB36	02/26/18	1.6	<1.0	3.8	<2.0
SB37	03/31/14		Not Sampled - Insufficient Water		
SB37	05/19/14	40	80	<1.0	1,100
SB37	08/29/14	680	1,000	<20	2,700
SB37	11/21/14	390	470	<20	1,300
SB37	02/13/15	370	940	<20	5,000
SB37	05/21/15	150	200	<20	1,300
SB37	08/27/15	162	872	20.2	1,980
SB37	11/24/15	263	4,100	129	7,670
SB37	02/22/16	488	8,070	290	10,200
SB37	05/23/16		Not Sampled - LNAPL Present		
SB37	08/15/16		Not Sampled - LNAPL Present		
SB37	11/21/16		Not Sampled - LNAPL Present		
SB37	02/16/17		Not Sampled - LNAPL Present		
SB37	05/12/17		Not Sampled - LNAPL Present		
SB37	08/24/17		Not Sampled - LNAPL Present		
SB37	11/20/17		Not Sampled - LNAPL Present		
SB37	02/26/18		Not Sampled - LNAPL Present		
SB38	03/31/14	14	10	3.1	32
SB38	05/19/14	16	<5.0	<1.0	<3.0
SB38	08/29/14	<1.0	<5.0	<1.0	<3.0
SB38	11/21/14	<1.0	<5.0	<1.0	<3.0
SB38	02/13/15	<1.0	<5.0	<1.0	<3.0
SB38	05/21/15	<1.0	<5.0	<1.0	<3.0
SB38	08/27/15	136	<5.0	<1.0	<3.0
SB38	11/24/15	3.16	<5.0	<1.0	<3.0
SB38	02/22/16	2.11	<5.0	<1.0	<3.0
SB38	05/23/16	1.7	<1.0	<1.0	<1.0
SB38	08/15/16	<1.0	<1.0	<1.0	<1.0
SB38	11/21/16	<1.0	<1.0	<1.0	<1.0
SB38	02/16/17	<1.0	<1.0	<1.0	<1.0
SB38	05/12/17	<1.0	<1.0	<1.0	<2.0
SB38	08/24/17	<1.0	<1.0	<1.0	<2.0
SB38	11/20/17	<1.0	<1.0	<1.0	4.2
SB38	02/26/18	<1.0	<1.0	<1.0	<2.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene ($\mu\text{g}/\text{L}$)	Toluene ($\mu\text{g}/\text{L}$)	Ethylbenzene ($\mu\text{g}/\text{L}$)	Total Xylenes ($\mu\text{g}/\text{L}$)
COGCC Groundwater Standard ($\mu\text{g}/\text{L}$)		5	560	700	1,400
SB39	04/18/14	<1.0	<5.0	<1.0	<3.0
SB39	05/19/14	<1.0	<5.0	<1.0	<3.0
SB39	08/29/14	<1.0	<5.0	<1.0	<3.0
SB39	11/21/14	<1.0	<5.0	<1.0	<3.0
SB39	02/13/15	<1.0	<5.0	<1.0	<3.0
SB39	05/21/15	<1.0	<5.0	<1.0	<3.0
SB39	08/27/15	<1.0	<5.0	<1.0	<3.0
SB39	11/24/15	<1.0	<5.0	<1.0	<3.0
SB39	02/22/16	<1.0	<5.0	<1.0	<3.0
SB39	05/23/16	<1.0	<1.0	<1.0	<1.0
SB39	08/15/16	<1.0	<1.0	<1.0	<1.0
SB39	11/21/16	<1.0	<1.0	<1.0	<1.0
SB39	02/16/17	<1.0	<1.0	<1.0	<1.0
SB39	05/12/17	<1.0	<1.0	<1.0	<2.0
SB39	08/24/17	<1.0	<1.0	<1.0	<2.0
SB39	11/20/17	<1.0	<1.0	<1.0	<2.0
SB39	02/26/18	<1.0	<1.0	<1.0	<2.0
SB40	04/18/14	<1.0	<5.0	<1.0	<3.0
SB40	05/19/14	<1.0	<5.0	<1.0	<3.0
SB40	08/29/14	<1.0	<5.0	<1.0	<3.0
SB40	11/21/14	<1.0	<5.0	<1.0	<3.0
SB40	02/13/15	<1.0	<5.0	<1.0	<3.0
SB40	05/21/15	<1.0	<5.0	<1.0	<3.0
SB40	08/27/15	<1.0	<5.0	<1.0	<3.0
SB40	11/24/15	<1.0	<5.0	<1.0	<3.0
SB40	02/22/16	<1.0	<5.0	<1.0	<3.0
SB40	05/23/16	<1.0	<1.0	<1.0	<1.0
SB40	08/15/16	<1.0	<1.0	<1.0	<1.0
SB40	11/21/16	<1.0	<1.0	<1.0	<1.0
SB40	02/16/17	<1.0	<1.0	<1.0	<1.0
SB40	05/12/17	Not Sampled - Removed From Groundwater Monitoring Program			
SB41	04/18/14	<1.0	<5.0	<1.0	<3.0
SB41	05/19/14	<1.0	<5.0	<1.0	<3.0
SB41	08/29/14	<1.0	<5.0	<1.0	<3.0
SB41	11/21/14	<1.0	<5.0	<1.0	<3.0
SB41	02/13/15	<1.0	<5.0	<1.0	<3.0
SB41	05/21/15	<1.0	<5.0	<1.0	<3.0
SB41	08/27/15	<1.0	<5.0	<1.0	<3.0
SB41	11/24/15	<1.0	<5.0	<1.0	<3.0
SB41	02/22/16	<1.0	<5.0	<1.0	<3.0
SB41	05/23/16	<1.0	<1.0	<1.0	<1.0
SB41	08/15/16	<1.0	<1.0	<1.0	<1.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)
COGCC Groundwater Standard ($\mu\text{g/L}$)		5	560	700	1,400
SB41	11/21/16	<1.0	<1.0	<1.0	<1.0
SB41	02/16/17	<1.0	<1.0	<1.0	<1.0
SB41	05/12/17	Not Sampled - Removed From Groundwater Monitoring Program			
SB42	04/18/14	<1.0	<5.0	<1.0	<3.0
SB42	05/19/14	<1.0	<5.0	<1.0	<3.0
SB42	08/29/14	<1.0	<5.0	<1.0	<3.0
SB42	11/21/14	<1.0	<5.0	<1.0	<3.0
SB42	02/13/15	<1.0	<5.0	<1.0	<3.0
SB42	05/21/15	<1.0	<5.0	<1.0	<3.0
SB42	08/27/15	<1.0	<5.0	<1.0	<3.0
SB42	11/24/15	<1.0	<5.0	<1.0	<3.0
SB42	02/22/16	<1.0	<5.0	<1.0	<3.0
SB42	05/23/16	<1.0	<1.0	<1.0	<1.0
SB42	08/15/16	<1.0	<1.0	<1.0	<1.0
SB42	11/21/16	<1.0	<1.0	<1.0	<1.0
SB42	02/16/17	<1.0	<1.0	<1.0	<1.0
SB42	05/12/17	Not Sampled - Removed From Groundwater Monitoring Program			
DUP (SB06)	02/24/14	<1.0	<1.0	<1.0	<1.0
DUP (SB08)	05/19/14	6,000	16,000	540	12,000
DUP (SB22R)	08/29/14	290	700	<20	2,200
DUP (SB37)	11/21/14	400	530	<20	1,400
DUP (SB37)	08/27/15	176	899	20.3	2,000
DUPE (SB37)	11/24/15	233	1,080	70.5	1,730
DUPE (SB37)	02/22/16	295	4,310	170	6,270
Dupe01 (SB10)	02/16/17	5,100	2,600	840	11,000
Dup (SB07)	08/24/17	2,500	260	170	3,700
Dup (SB23R)	11/20/17	4,500	17,000	410	14,000
Dup (SB08)	02/26/18	6,100	680	510	7,600
Trip Blank	02/24/14	<1.0	<1.0	<1.0	<1.0
Trip Blank	04/18/14	<1.0	<5.0	<1.0	<3.0
Trip Blank	05/19/14	<1.0	<5.0	<1.0	<3.0
Trip Blank	08/29/14	<1.0	<5.0	<1.0	<3.0
Trip Blank	11/21/14	<1.0	<5.0	<1.0	<3.0
Trip Blank	08/27/15	<1.0	<5.0	<1.0	<3.0
Trip Blank	11/24/15	<1.0	<5.0	<1.0	<3.0
Trip Blank	02/22/16	<1.0	<5.0	<1.0	<3.0
Red Cooler (TB-1)	11/18/16	<1.0	<1.0	<1.0	<1.0
Blue Cooler (TB-2)	11/18/16	<1.0	<1.0	<1.0	<1.0
Trip Blank Blue	02/16/17	<1.0	<1.0	<1.0	<1.0
Trip Blank Red	02/16/17	<1.0	<1.0	<1.0	<1.0
Trip Blank	05/11/17	<1.0	<1.0	<1.0	<2.0
Trip Blank 01	08/24/17	<1.0	<1.0	<1.0	<2.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - PLUGGED AND ABANDONED FRI 2-18
TANK BATTERY AND WELLHEAD LOCATION

Monitoring Well ID	Date	Benzene ($\mu\text{g}/\text{L}$)	Toluene ($\mu\text{g}/\text{L}$)	Ethylbenzene ($\mu\text{g}/\text{L}$)	Total Xylenes ($\mu\text{g}/\text{L}$)
COGCC Groundwater Standard ($\mu\text{g}/\text{L}$)		5	560	700	1,400
Trip Blank 1	11/20/17	<1.0	<1.0	<1.0	<2.0
Trip Blank	02/26/18	<1.0	<1.0	<1.0	<2.0

Notes:

COGCC = Colorado Oil and Gas Conservation Commission

$\mu\text{g}/\text{L}$ = Micrograms per liter

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

LNAPL = Light non-aqueous phase liquid

DUP = Duplicate sample

¹ Well obstruction large enough to block meter sensor, small enough to allow hydrosleeve deployment.

² Tasman recommended a reduced groundwater monitoring well network to Noble Energy on March 29, 2017 based on historical groundwater data.

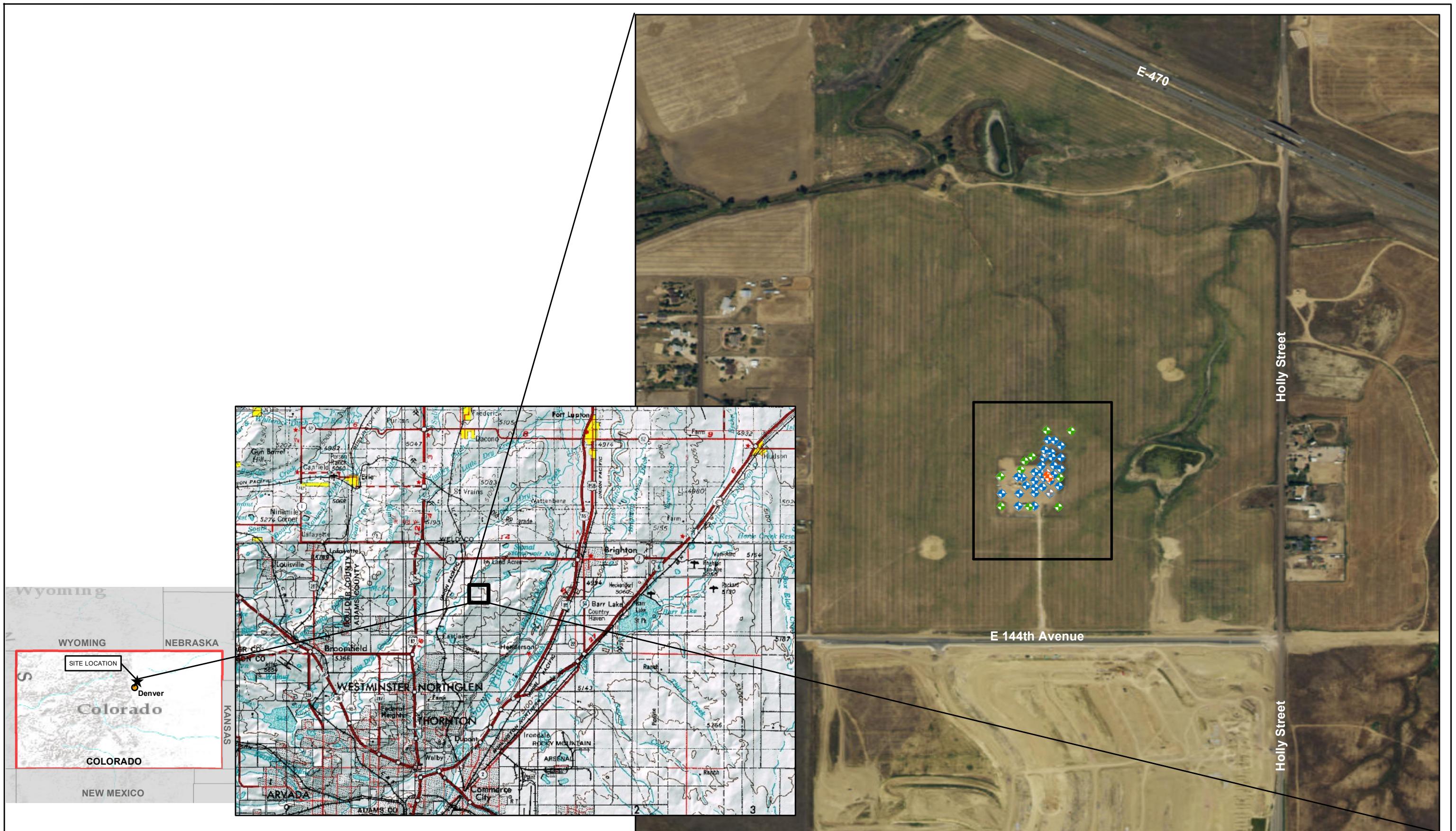
³ Diluted sample run was analyzed outside of holding time, but results are comparable with previous quarter. Therefore, sample results are viewed as estimated, but acceptable.

Groundwater standards referenced from COGCC Table 910-1

Highlighted results exceed the COGCC Table 910-1 standard

This table presents data collected by Tasman Geosciences. Historical data is presented in Attachment A of the Form 27 Site Assessment Report (COGCC Document #2148980)

FIGURES



DATE:	September 2017
DESIGNED BY:	B. Bruns
DRAWN BY:	D. Arnold

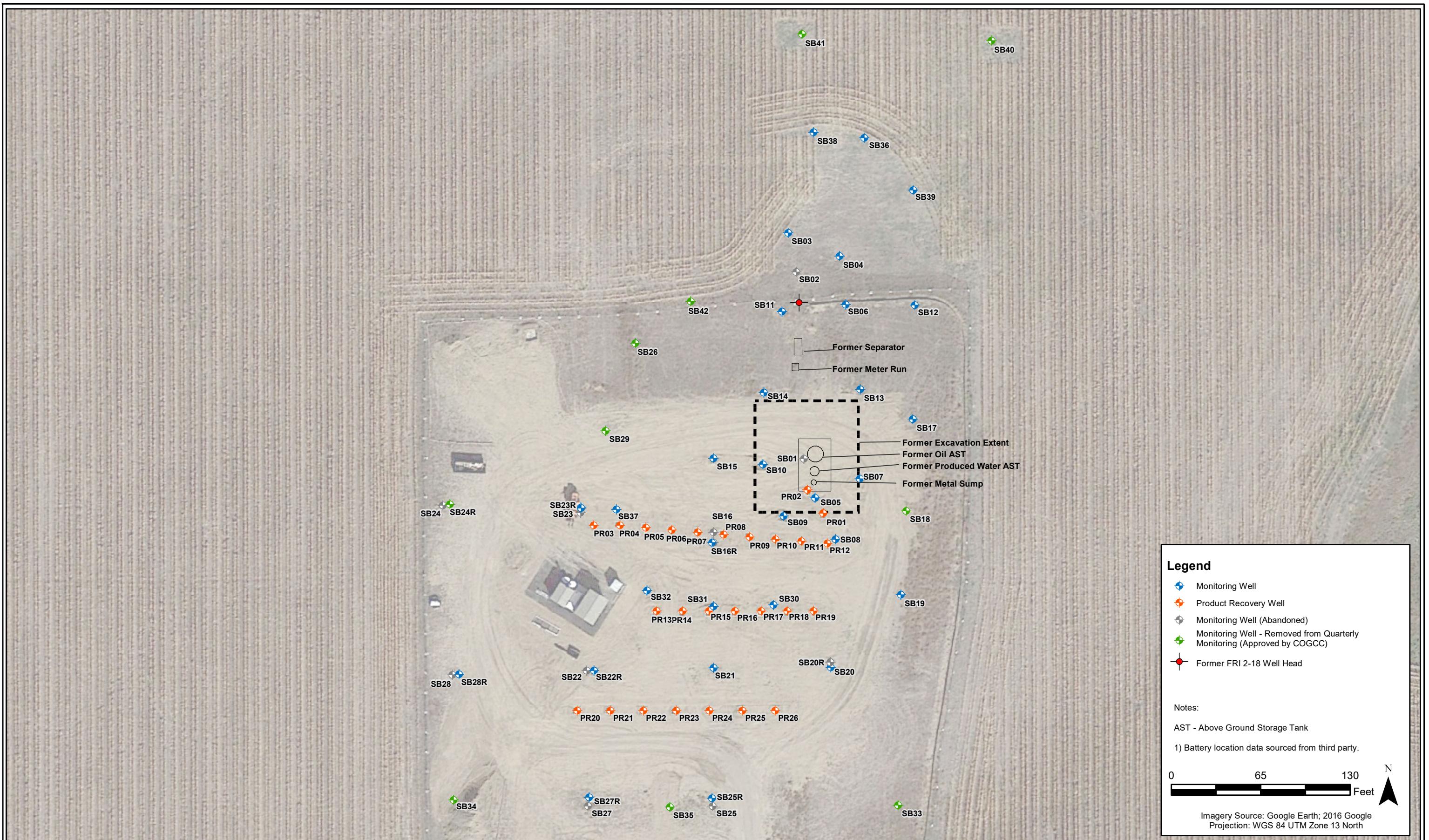


Tasman Geosciences, Inc.
6899 Pecos Street - Unit C
Denver, CO 80221

Noble Energy, Inc.
Plugged & Abandoned Fri 2-18 Tank Battery & Wellhead Location
Section 18, Township 1 South, Range 67 West
Adams County, Colorado

Site Location
Map

Figure
1



DATE:	March 2018
DESIGNED BY:	B.Bruns
DRAWN BY:	D. Arnold



Tasman Geosciences, Inc.
6899 Pecos Street - Unit C
Denver, CO 80221

Noble Energy, Inc. - DJ Basin
Plugged & Abandoned Fri 2-18 Tank Battery & Wellhead Location
Section 18, Township 1 South, Range 67 West
Adams County, Colorado

Site Overview
Map

Figure
2



DATE:	March 2018
DESIGNED BY:	B.Bruns
DRAWN BY:	D. Arnold

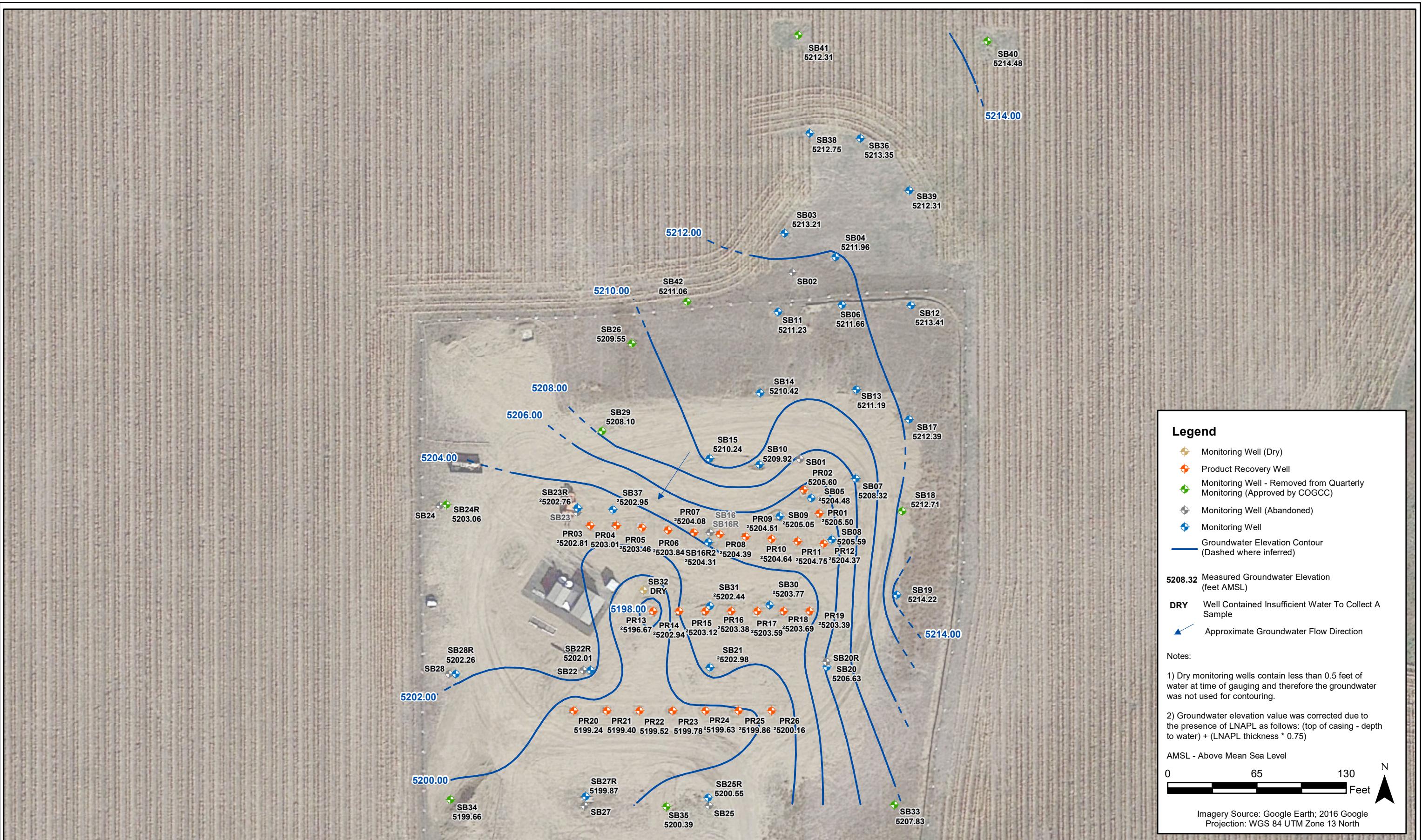


Tasman Geosciences, Inc.
6899 Pecos Street - Unit C
Denver, CO 80221

Noble Energy, Inc.
Plugged & Abandoned Fri 2-18 Tank Battery & Wellhead Location
Section 18, Township 1 South, Range 67 West
Adams County, Colorado

LNAPL
Thickness Map
(3Q2017, 4Q2017, 1Q2018)

Figure
3



DATE:	March 2018
DESIGNED BY:	B. Bruns
DRAWN BY:	D. Arnold

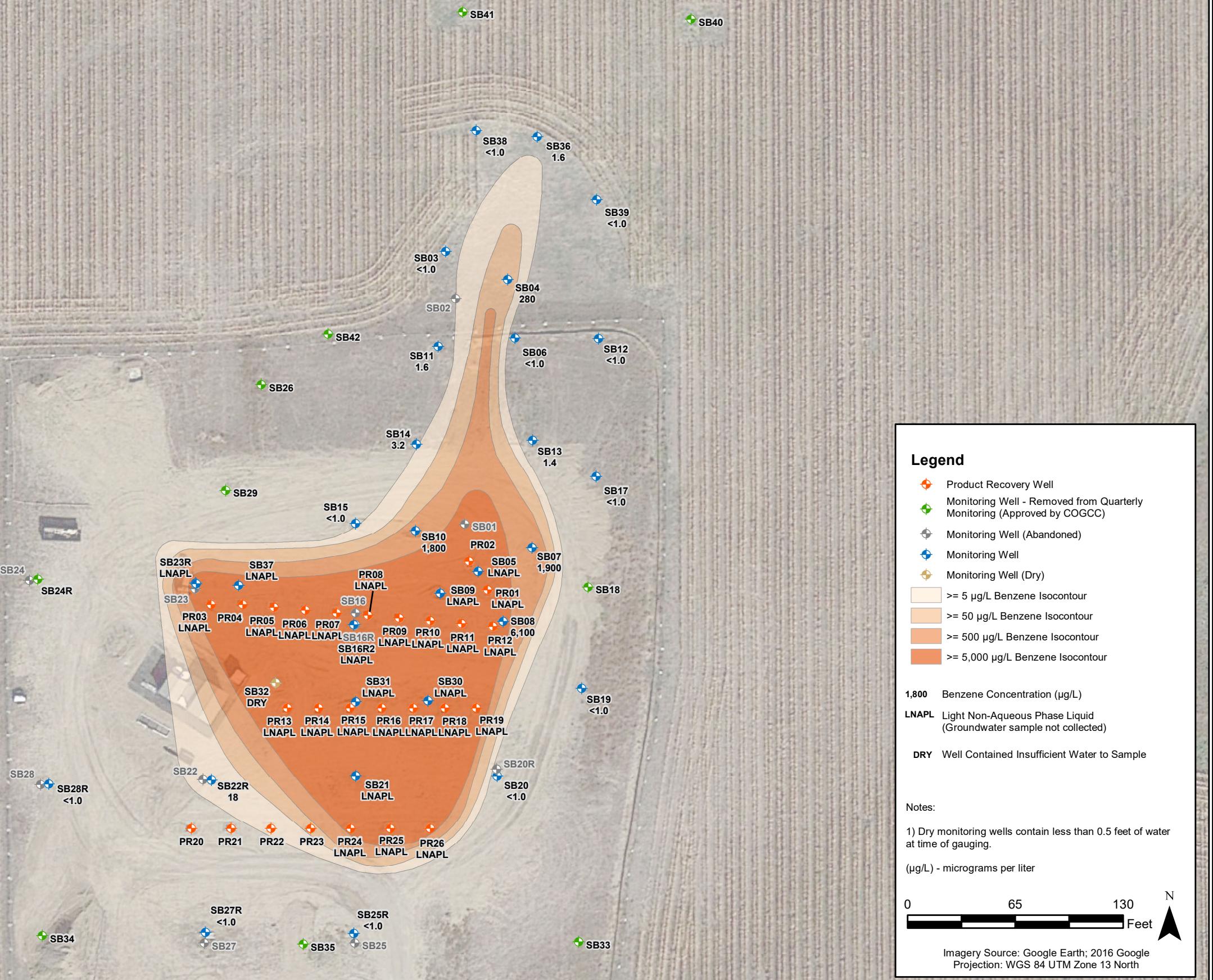


Tasman Geosciences, Inc.
6899 Pecos Street - Unit C
Denver, CO 80221

Noble Energy, Inc. - DJ Basin
Plugged & Abandoned Fri 2-18 Tank Battery & Wellhead Location
Section 18, Township 1 South, Range 67 West
Adams County, Colorado

Groundwater Potentiometric Surface Contour Map (02/23/2018)

Figure 4



DATE:	March 2018
DESIGNED BY:	B.Bruns
DRAWN BY:	D. Arnold



Tasman Geosciences, Inc.
6899 Pecos Street - Unit C
Denver, CO 80221

Noble Energy, Inc. - DJ Basin
Plugged & Abandoned Fri 2-18 Tank Battery & Wellhead Location
Section 18, Township 1 South, Range 67 West
Adams County, Colorado

Benzene in Groundwater,
Isoconcentration Contour
Map
(02/26/2018)

**Figure
5**

ATTACHMENT A

LABORATORY ANALYTICAL DATA REPORT

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

March 06, 2018

Brandon Bruns
Tasman Geosciences
6899 Pecos Street
Denver, CO 80221
RE: Noble - FRI 2-18

Enclosed are the results of analyses for samples received by Summit Scientific on 02/26/18 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
Laboratory Manager



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB03	1802264-01	Water	02/26/18 10:13	02/26/18 17:00
SB04	1802264-02	Water	02/26/18 12:18	02/26/18 17:00
SB06	1802264-03	Water	02/26/18 10:00	02/26/18 17:00
SB07	1802264-04	Water	02/26/18 12:30	02/26/18 17:00
SB08	1802264-05	Water	02/26/18 12:38	02/26/18 17:00
SB10	1802264-06	Water	02/26/18 12:45	02/26/18 17:00
SB11	1802264-07	Water	02/26/18 10:05	02/26/18 17:00
SB12	1802264-08	Water	02/26/18 09:48	02/26/18 17:00
SB13	1802264-09	Water	02/26/18 11:57	02/26/18 17:00
SB14	1802264-10	Water	02/26/18 10:23	02/26/18 17:00
SB15	1802264-11	Water	02/26/18 10:32	02/26/18 17:00
SB17	1802264-12	Water	02/26/18 11:50	02/26/18 17:00
SB19	1802264-13	Water	02/26/18 11:34	02/26/18 17:00
SB20	1802264-14	Water	02/26/18 12:05	02/26/18 17:00
SB22R	1802264-15	Water	02/26/18 10:50	02/26/18 17:00
SB25R	1802264-16	Water	02/26/18 11:25	02/26/18 17:00
SB27R	1802264-17	Water	02/26/18 11:02	02/26/18 17:00
SB28R	1802264-18	Water	02/26/18 10:42	02/26/18 17:00
SB36	1802264-19	Water	02/26/18 09:32	02/26/18 17:00
SB38	1802264-20	Water	02/26/18 09:22	02/26/18 17:00
SB39	1802264-21	Water	02/26/18 09:40	02/26/18 17:00
DUP	1802264-22	Water	02/26/18 00:00	02/26/18 17:00
Trip Blank	1802264-23	Water	02/26/18 00:00	02/26/18 17:00

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

1802264.1

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

Page 1 of 3

Client: Noble/Tasman
Address: -
City/State/Zip: -
Phone: 303-487-1228 Fax: -
Sampler Name: GB, JW, TL

Project Manager: Brandon Bruns, Invoice: Jacob Evans
E-Mail: Bbruns@tasman-geo.com
Project Name: Fri 2-18
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)	8260 BTEX		8260B GBTEXN	8015 DRO	pH, EC, SAR
SB03	2/26/2018	1013	3	X			X									
SB04	2/26/2018	1218	3	X			X									
SB06	2/26/2018	1000	3	X			X									
SB07	2/26/2018	1230	3	X			X									
SB08	2/26/2018	1238	3	X			X									
SB10	2/26/2018	1245	3	X			X									
SB11	2/26/2018	1005	3	X			X									
SB12	2/26/2018	948	3	X			X									
SB13	2/26/2018	1157	3	X			X									
SB14	2/26/2018	1023	3	X			X									
Relinquished by:	Date/Time:	Received by:	Date/Time:					Turn Around Time (Check)					Notes:			
	2/26/18		2.26.18					Same Day	<input type="checkbox"/>	24 Hours	<input type="checkbox"/>	48 Hours	<input type="checkbox"/>	72 Hours	<input checked="" type="checkbox"/>	Standard
Relinquished by:	Date/Time:	Received by:	Date/Time:													
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:					Sample Integrity:								
								Temperature Upon Receipt:								
								Intact:	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>					

Summit Scientific

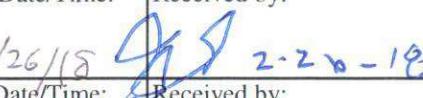
1802264.2

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

Page 2 of 3

Client: Noble/Tasman
Address: -
City/State/Zip: -
Phone: 303-487-1228 Fax: -
Sampler Name: GB, JW, TL

Project Manager: Brandon Bruns, Invoice: Jacob Evans
E-Mail: Bbruns@tasman-geo.com
Project Name: Fri 2-18
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)	8260 BTEX		8260B GBTEXN
SB15	2/26/2018	1032	3	X			X					X		
SB17	2/26/2018	1150	3	X			X					X		
SB19	2/26/2018	1134	3	X			X					X		
SB20	2/26/2018	1205	3	X			X					X		
SB22R	2/26/2018	1050	3	X			X					X		
SB25R	2/26/2018	1125	3	X			X					X		
SB27R	2/26/2018	1102	3	X			X					X		
SB28R	2/26/2018	1042	3	X			X					X		
SB36	2/26/2018	932	3	X			X					X		
SB38	2/26/2018	922	3	X			X					X		
Relinquished by:		Date/Time:	Received by:				Date/Time:							Notes:
		2/26/18	 2-26-18											
Relinquished by:		Date/Time:	Received by:				Date/Time:							
Relinquished by:		Date/Time:	Received in Lab by:				Date/Time:							

Turn Around Time (Check)
 Same Day 72 Hours
 24 Hours Standard
 48 Hours

Sample Integrity:
 Temperature Upon Receipt: 71
 Intact: Yes No

Summit Scientific

1802264.3

741 Corporate Circle Suite I ♦ Golden, Colorado 80401

303-277-9310 ♦ 303-374-5933 Fax

Page 3 of 3

Client: Noble/Tasman
 Address: -
 City/State/Zip: -
 Phone: 303-487-1228 Fax: -
 Sampler Name: GB, JW, TL

Project Manager: Brandon Bruns, Invoice: Jacob Evans
 E-Mail: Bbruns@tasman-geo.com
 Project Name: Fri 2-18
 Project Number: -

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative		Matrix		Analyze For:			Special Instructions		
				HCl	HNO ₃	None	Other (Specify)	Air - Canister Serial #	Other (Specify)	8260 BTEX		8260B GBTEXIN	8015 DRO
SB39	2/26/2018	940	3	X		X		X					
DUP	2/26/2018	-	3	X		X		X					
Trip Blank	2/23/2018					X		X					
Relinquished by:			Date/Time:			Received by:			Date/Time:	Turn Around Time (Check)		Notes:	
	3/26/18		10:08	2-28-18						Same Day	<input type="checkbox"/>		72 Hours Standard
Relinquished by:			Date/Time:			Received by:			Date/Time:	24 Hours	<input type="checkbox"/>		
Relinquished by:			Date/Time:			Received in Lab by:			Date/Time:	48 Hours	<input checked="" type="checkbox"/>		
Sample Integrity: Temperature Upon Receipt: <u>71</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													

1802264

Sample Receipt Checklist

S2 Work Order: _____

Client: Nobie TasmanClient Project ID: Fri 2-18Shipped Via: P.U.

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: _____

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

Cooler ID					
Temp (°C)	<u>7.1</u>				

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"/>			
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?				
Note the type of preservative in the Comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , ect	<input checked="" type="checkbox"/>			HCl
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Karen Logan

Custodian Printed Name

Signature or Initials of Custodian

2-26-1817:00

Date/Time



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB03
1802264-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 10:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803022	03/01/18	03/01/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/26/18 10:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	102 %	37-154		"	"	"	"	"	
Surrogate: Toluene-d8	93.0 %	45-149		"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.9 %	45-146		"	"	"	"	"	

Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB04
1802264-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	280	10	ug/l	10	1803022	03/02/18	03/02/18	EPA 8260B	
Toluene	13	10	"	"	"	"	"	"	
Ethylbenzene	560	10	"	"	"	"	"	"	
Xylenes (total)	23	20	"	"	"	"	"	"	

Date Sampled: **02/26/18 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	102 %	37-154		"	"	"	"	"	
Surrogate: Toluene-d8	94.0 %	45-149		"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	45-146		"	"	"	"	"	

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 Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB06
1802264-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803022	03/02/18	03/02/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/26/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	37-154	"	"	"	"	"	
Surrogate: Toluene-d8		97.9 %	45-149	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	45-146	"	"	"	"	"	

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 Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB07
1802264-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1900	100	ug/l	100	1803022	03/02/18	03/02/18	EPA 8260B	
Toluene	140	100	"	"	"	"	"	"	
Ethylbenzene	250	100	"	"	"	"	"	"	
Xylenes (total)	1600	200	"	"	"	"	"	"	

Date Sampled: **02/26/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	103 %	37-154		"	"	"	"	"	
Surrogate: Toluene-d8	96.6 %	45-149		"	"	"	"	"	
Surrogate: 4-Bromo fluorobenzene	100 %	45-146		"	"	"	"	"	

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 Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB08
1802264-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 12:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	6100	100	ug/l	100	1803022	03/02/18	03/02/18	EPA 8260B	
Toluene	630	100	"	"	"	"	"	"	
Ethylbenzene	540	100	"	"	"	"	"	"	
Xylenes (total)	9100	200	"	"	"	"	"	"	

Date Sampled: **02/26/18 12:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	104 %	37-154		"	"	"	"	"	
Surrogate: Toluene-d8	96.4 %	45-149		"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	45-146		"	"	"	"	"	

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 Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB10
1802264-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1800	100	ug/l	100	1803022	03/02/18	03/02/18	EPA 8260B	
Toluene	16	1.0	"	1	"	"	"	"	
Ethylbenzene	380	10	"	10	"	"	"	"	
Xylenes (total)	3200	200	"	100	"	"	"	"	

Date Sampled: **02/26/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	105 %	37-154		"	"	"	"	"	
Surrogate: Toluene-d8	96.9 %	45-149		"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	45-146		"	"	"	"	"	

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 Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB11
1802264-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1.6	1.0	ug/l	1	1803022	03/02/18	03/02/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	1.1	1.0	"	"	"	"	"	"	
Xylenes (total)	7.4	2.0	"	"	"	"	"	"	

Date Sampled: **02/26/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	37-154	"	"	"	"	"	
Surrogate: Toluene-d8		106 %	45-149	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	45-146	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB12
1802264-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803022	03/02/18	03/02/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/26/18 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	37-154	"	"	"	"	"	
Surrogate: Toluene-d8		90.3 %	45-149	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	45-146	"	"	"	"	"	

Summit Scientific

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6899 Pecos Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB13
1802264-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 11:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1.4	1.0	ug/l	1	1803022	03/02/18	03/02/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/26/18 11:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	106 %	37-154		"	"	"	"	"	
Surrogate: Toluene-d8	92.9 %	45-149		"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	45-146		"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB14
1802264-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	3.2	1.0	ug/l	1	1803022	03/02/18	03/02/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/26/18 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	37-154	"	"	"	"	"	
Surrogate: Toluene-d8		94.4 %	45-149	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	45-146	"	"	"	"	"	

Summit Scientific

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6899 Pecos Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB15
1802264-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803022	03/02/18	03/02/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/26/18 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	37-154	"	"	"	"	"	
Surrogate: Toluene-d8		98.5 %	45-149	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	45-146	"	"	"	"	"	

Summit Scientific

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6899 Pecos Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB17
1802264-12 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803022	03/02/18	03/02/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/26/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	37-154	"	"	"	"	"	
Surrogate: Toluene-d8		93.4 %	45-149	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	45-146	"	"	"	"	"	

Summit Scientific

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6899 Pecos Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB19
1802264-13 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803022	03/02/18	03/02/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/26/18 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	37-154	"	"	"	"	"	
Surrogate: Toluene-d8		93.8 %	45-149	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	45-146	"	"	"	"	"	

Summit Scientific

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6899 Pecos Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB20
1802264-14 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803022	03/02/18	03/02/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/26/18 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	107 %	37-154		"	"	"	"	"	
Surrogate: Toluene-d8	109 %	45-149		"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	45-146		"	"	"	"	"	

Summit Scientific

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6899 Pecos Street
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Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB22R
1802264-15 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	18	1.0	ug/l	1	1803022	03/02/18	03/02/18	EPA 8260B	
Toluene	44	1.0	"	"	"	"	"	"	
Ethylbenzene	6.5	1.0	"	"	"	"	"	"	
Xylenes (total)	140	2.0	"	"	"	"	"	"	

Date Sampled: **02/26/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	83.0 %	37-154		"	"	"	"	"	
Surrogate: Toluene-d8	85.3 %	45-149		"	"	"	"	"	
Surrogate: 4-Bromo fluorobenzene	109 %	45-146		"	"	"	"	"	

Summit Scientific

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6899 Pecos Street
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Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB25R
1802264-16 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803022	03/02/18	03/02/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/26/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.0 %	37-154	"	"	"	"	"	
Surrogate: Toluene-d8		100 %	45-149	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	45-146	"	"	"	"	"	

Summit Scientific

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6899 Pecos Street
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Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB27R
1802264-17 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803022	03/02/18	03/02/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/26/18 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.1 %	37-154	"	"	"	"	"	
Surrogate: Toluene-d8		97.4 %	45-149	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	45-146	"	"	"	"	"	

Summit Scientific

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6899 Pecos Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB28R
1802264-18 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 10:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803022	03/02/18	03/02/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/26/18 10:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		82.1 %	37-154	"	"	"	"	"	
Surrogate: Toluene-d8		98.3 %	45-149	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	45-146	"	"	"	"	"	

Summit Scientific

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6899 Pecos Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB36
1802264-19 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 09:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1.6	1.0	ug/l	1	1803022	03/02/18	03/02/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	3.8	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/26/18 09:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.4 %	37-154	"	"	"	"	"	
Surrogate: Toluene-d8		96.5 %	45-149	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	45-146	"	"	"	"	"	

Summit Scientific

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6899 Pecos Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB38
1802264-20 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 09:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803028	03/02/18	03/02/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/26/18 09:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.6 %	37-154	"	"	"	"	"	
Surrogate: Toluene-d8		96.2 %	45-149	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	45-146	"	"	"	"	"	

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.



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6899 Pecos Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

SB39
1802264-21 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803028	03/03/18	03/03/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/26/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.9 %	37-154	"	"	"	"	"	
Surrogate: Toluene-d8		95.7 %	45-149	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	45-146	"	"	"	"	"	

Summit Scientific

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6899 Pecos Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

DUP
1802264-22 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	6100	100	ug/l	100	1803028	03/03/18	03/03/18	EPA 8260B	
Toluene	680	100	"	"	"	"	"	"	
Ethylbenzene	510	100	"	"	"	"	"	"	
Xylenes (total)	7600	200	"	"	"	"	"	"	

Date Sampled: **02/26/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	80.5 %	37-154		"	"	"	"	"	
Surrogate: Toluene-d8	103 %	45-149		"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %	45-146		"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

Trip Blank
1802264-23 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1803028	03/03/18	03/03/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/26/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.7 %	37-154	"	"	"	"	"	
Surrogate: Toluene-d8		92.7 %	45-149	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	45-146	"	"	"	"	"	

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 Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

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

Batch 1803022 - EPA 5030 Water MS

Blank (1803022-BLK1)	Prepared & Analyzed: 03/01/18					
Benzene	ND	1.0	ug/l			
Toluene	ND	1.0	"			
Ethylbenzene	ND	1.0	"			
Xylenes (total)	ND	2.0	"			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.6		"	13.3	94.6	37-154
<i>Surrogate: Toluene-d8</i>	12.4		"	13.3	93.2	45-149
<i>Surrogate: 4-Bromofluorobenzene</i>	12.7		"	13.3	95.5	45-146
LCS (1803022-BS1)	Prepared & Analyzed: 03/01/18					
Benzene	33.3	1.0	ug/l	33.3	99.8	51-132
Toluene	32.5	1.0	"	33.3	97.6	51-138
Ethylbenzene	37.8	1.0	"	33.1	114	58-146
m,p-Xylene	69.0	2.0	"	66.5	104	57-144
o-Xylene	34.1	1.0	"	32.7	104	53-146
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.5		"	13.3	102	37-154
<i>Surrogate: Toluene-d8</i>	12.7		"	13.3	95.0	45-149
<i>Surrogate: 4-Bromofluorobenzene</i>	13.2		"	13.3	98.9	45-146

Matrix Spike (1803022-MS1)	Source: 1802264-01 Prepared & Analyzed: 03/01/18					
Benzene	33.2	1.0	ug/l	33.3	ND	99.6
Toluene	33.4	1.0	"	33.3	ND	100
Ethylbenzene	37.4	1.0	"	33.1	ND	113
m,p-Xylene	68.7	2.0	"	66.5	ND	103
o-Xylene	33.6	1.0	"	32.7	ND	103
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.8		"	13.3		37-154
<i>Surrogate: Toluene-d8</i>	12.8		"	13.3		95.8
<i>Surrogate: 4-Bromofluorobenzene</i>	13.0		"	13.3		45-146

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
03/06/18 15:10

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

Batch 1803022 - EPA 5030 Water MS

Matrix Spike Dup (1803022-MSD1)	Source: 1802264-01			Prepared & Analyzed: 03/01/18					
Benzene	33.0	1.0	ug/l	33.3	ND	98.9	34-141	0.786	32
Toluene	32.8	1.0	"	33.3	ND	98.5	27-151	1.60	25
Ethylbenzene	37.3	1.0	"	33.1	ND	113	29-160	0.321	50
m,p-Xylene	68.2	2.0	"	66.5	ND	102	20-166	0.833	36
o-Xylene	33.3	1.0	"	32.7	ND	102	33-159	0.718	26
<i>Surrogate: 1,2-Dichloroethane-d4</i>	14.2		"	13.3		106	37-154		
<i>Surrogate: Toluene-d8</i>	12.5		"	13.3		93.9	45-149		
<i>Surrogate: 4-Bromofluorobenzene</i>	12.8		"	13.3		96.0	45-146		

Batch 1803028 - EPA 5030 Water MS

Blank (1803028-BLK1)	Prepared & Analyzed: 03/03/18						
Benzene	ND	1.0	ug/l				
Toluene	ND	1.0	"				
Ethylbenzene	ND	1.0	"				
Xylenes (total)	ND	2.0	"				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	11.5		"	13.3		86.0	37-154
<i>Surrogate: Toluene-d8</i>	12.0		"	13.3		89.7	45-149
<i>Surrogate: 4-Bromofluorobenzene</i>	13.7		"	13.3		103	45-146

LCS (1803028-BS1)	Prepared & Analyzed: 03/03/18						
Benzene	34.6	1.0	ug/l	33.3		104	51-132
Toluene	31.5	1.0	"	33.3		94.6	51-138
Ethylbenzene	37.9	1.0	"	33.1		115	58-146
m,p-Xylene	73.9	2.0	"	66.5		111	57-144
o-Xylene	36.4	1.0	"	32.7		112	53-146
<i>Surrogate: 1,2-Dichloroethane-d4</i>	11.4		"	13.3		85.9	37-154
<i>Surrogate: Toluene-d8</i>	12.8		"	13.3		95.6	45-149
<i>Surrogate: 4-Bromofluorobenzene</i>	13.6		"	13.3		102	45-146

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Denver CO, 80221

Project: Noble - FRI 2-18

Project Number: [none]
Project Manager: Brandon Bruns

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03/06/18 15:10

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

Batch 1803028 - EPA 5030 Water MS

Matrix Spike (1803028-MS1)		Source: 1802264-20		Prepared & Analyzed: 03/03/18						
Benzene	36.6	1.0	ug/l	33.3	ND	110	34-141			
Toluene	33.2	1.0	"	33.3	ND	99.6	27-151			
Ethylbenzene	40.4	1.0	"	33.1	ND	122	29-160			
m,p-Xylene	79.7	2.0	"	66.5	ND	120	20-166			
o-Xylene	39.3	1.0	"	32.7	ND	120	33-159			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.3		"	13.3		92.0	37-154			
<i>Surrogate: Toluene-d8</i>	12.0		"	13.3		89.7	45-149			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.6		"	13.3		102	45-146			
Matrix Spike Dup (1803028-MSD1)		Source: 1802264-20		Prepared & Analyzed: 03/03/18						
Benzene	38.8	1.0	ug/l	33.3	ND	116	34-141	5.97	32	
Toluene	37.4	1.0	"	33.3	ND	112	27-151	12.1	25	
Ethylbenzene	42.1	1.0	"	33.1	ND	127	29-160	4.07	50	
m,p-Xylene	82.4	2.0	"	66.5	ND	124	20-166	3.39	36	
o-Xylene	40.3	1.0	"	32.7	ND	123	33-159	2.44	26	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.5		"	13.3		93.8	37-154			
<i>Surrogate: Toluene-d8</i>	13.2		"	13.3		99.2	45-149			
<i>Surrogate: 4-Bromofluorobenzene</i>	14.0		"	13.3		105	45-146			

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03/06/18 15:10

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