

# FIRST QUARTER 2019 SITE MONITORING REPORT

## SYLVESTER 31-5H5, 6H5

COGCC SPILL TRACKING # 438553  
COGCC REMEDIATION # 9292

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## **1.0 INTRODUCTION**

This First Quarter 2019 Site Monitoring and Remediation Summary Report (Report) presents the results of groundwater sampling activities performed at the Sylvester 31-5H5, 6H5 Flowline Release site (Site). Field activities detailed in this report were performed on behalf of Noble Energy, Inc. (Noble).

Field activities described in this Report were conducted by Tasman Geosciences, Inc. (Tasman) to further evaluate groundwater conditions. The data collected were used to develop the analytical summary tables, groundwater elevation map, and analytical data map presented herein.

### **1.1 Site Background**

The Site is located in the southeast  $\frac{1}{4}$  of the northwest  $\frac{1}{4}$  of Section 31, Township 5 north, Range 65 west, of the 6<sup>th</sup> Principal Meridian; within the city limits of the town of La Salle, in Weld County, Colorado as illustrated on Figure 1. The release location is approximately 250 ft. south-southeast of the Sylvester 31-5H5 and Sylvester 31-6H5 wellheads, and 150 ft. northwest of County Road 394, within the Ensign Well Services maintenance yard. The approximate coordinates of the release point are 40.357120°, -104.708280°.

On August 14, 2014, Noble discovered a release from a flowline associated with the Sylvester 31-5H5, 6H5 tank battery. Subsequently, Noble filed a Form 19 Initial Spill/Release Report (Form 19) with the Colorado Oil and Gas Conservation Commission (COGCC) for the incident (Document # 400665236).

Site soil and groundwater assessment activities were conducted between May 4 and August 11, 2015, whereby Tasman advanced 45 soil borings and installed 45 groundwater monitoring wells across the Site, as illustrated on Figure 2. Based on data gathered during assessment activities, implementation of an air sparge/soil vapor extraction (AS/SVE) system was determined to be the most applicable approach to address subsurface impacts. Summaries detailing the results of the soil and groundwater sampling and remediation implementation activities performed between August 14, 2014 and September 11, 2015 are provided in the Site Assessment and Remediation Report, dated October 2, 2015. A Form 27 pertaining to remediation activities at the Site was received by the COGCC on October 2, 2015, and document # 200437738 and remediation project # 9292 were assigned for the project. The COGCC attached conditions of approval to the Site Form 27, which are discussed in Section 1.2, below.

### **1.2 COGCC Conditions of Approval**

In an email response to the Form 27 that was submitted to the COGCC, a condition of approval was provided to Noble in an October 14, 2015 email stating:

*“Include monitoring wells MW-01, MW-02, MW-03, MW-04, MW-10 and MW-21 in addition to the monitoring wells shown on Figure 7 (MW-06, MW-12, MW-14, MW-16, MW-24, MW-25,*

*MW-26, MW-27, MW-28, MW-29, MW-32, MW-33, MW-34, MW-37, MW-39, MW-40, MW-41, MW-42, MW-43, MW-44, MW-45) in the quarterly ground water monitoring program. Analyze all groundwater samples for benzene, toluene, ethylbenzene and total xylenes (BTEX)."*

This guidance was utilized in determining monitoring wells to include in subsequent quarterly groundwater sampling events. Additionally, monitoring wells MW-46 and MW-47 were installed subsequent to the issuance of the COGCC conditions of approval on May 15, 2017, which stated *"Continue quarterly groundwater monitoring of the 29 monitoring wells approved in the original Form 27 plus the two additional monitoring wells installed subsequent to approval of the Form 27."* During the third quarter 2017, monitoring wells MW-02, which had a casing obstruction, and MW-10, which had been destroyed, were both replaced. These replacement wells, MW-02R and MW-10R, were first sampled during the fourth quarter of 2017.

### **1.3 Site Topography, Geology, and Hydrogeology**

The Site is situated approximately 4,660 feet above mean sea level (ft. amsl). Surface topography is relatively flat across the Site and regional topography slopes toward the northeast in the direction of the South Platte River. The Site is located in the flood plain approximately 597 feet (ft.) south of the South Platte River.

Site assessment borings indicate that the subsurface geology immediately beneath the Site is composed of dense, organic clay followed by unconsolidated alluvial sediment. The unconsolidated sediment is characterized as well sorted, medium to coarse grained sand. Boring logs for monitoring wells MW-1 through MW-47 were previously submitted in the Second Quarter 2016 Groundwater Monitoring and Remediation Summary Report.

Shallow groundwater was encountered at a range of approximately 4.5 ft. below ground surface (bgs) to 7 ft. bgs during well installation and groundwater sampling activities. The groundwater potentiometric surface generally flows toward the northwest in the northern portion of the site and to the north-northeast in the southern portion of the site, as illustrated on Figure 3.

## **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 2019. Sampling activities included measurement of groundwater and light non-aqueous phase liquid (LNAPL) depths and collection of groundwater samples from Site monitoring wells.

## 2.1 Groundwater Gauging and Sample Locations

The first quarter 2019 groundwater monitoring event was conducted on February 13, 2019. Based on guidance provided in the COGCC Form 27 conditions of approval, the following list of wells are gauged (i.e. groundwater level was measured) and sampled on a quarterly basis:

|       |        |       |       |
|-------|--------|-------|-------|
| MW-01 | MW-02R | MW-03 | MW-04 |
| MW-06 | MW-10R | MW-12 | MW-14 |
| MW-16 | MW-21  | MW-24 | MW-25 |
| MW-26 | MW-27  | MW-28 | MW-29 |
| MW-32 | MW-33  | MW-34 | MW-37 |
| MW-39 | MW-40  | MW-41 | MW-42 |
| MW-43 | MW-44  | MW-45 | MW-46 |
| MW-47 |        |       |       |

These monitoring wells comprise the groundwater monitoring network at the Site. Monitoring well MW-40 was inaccessible during the first quarter 2019 sampling event and therefore, was not gauged and a laboratory analytical sample was not collected. Monitoring well MW-29 did not contain enough water to collect an analytical sample.

## 2.2 Groundwater Level Gauging

Both general procedures and significant observations from the first quarter 2019 groundwater gauging event are presented in the following sections.

### General Procedures

Groundwater levels are gauged quarterly in order to evaluate hydraulic characteristics and to provide information regarding seasonal and annual fluctuations in groundwater elevations at the Site. During the first quarter 2019 groundwater monitoring event, groundwater levels were measured at all wells in the Site monitoring network.

Groundwater levels are measured on the north side of the well casing to the nearest 0.01-foot using an oil-water interface probe (IP). Groundwater level data were subsequently converted to elevations (ft. amsl) by subtracting the measured groundwater depth-to-water (DTW) level from the well's top-of-casing (TOC) elevation survey datum.

### Significant Observations

During the first quarter 2019 groundwater monitoring event, the groundwater table was encountered at approximately 4.73 to 9.52 ft. below TOC. Groundwater potentiometric surface contours are illustrated in Figure 3.

LNAPL was not detected in any of the monitoring wells gauged during the first quarter 2019 monitoring event.

## 2.3 Groundwater Purging and Sampling

This section summarizes the general procedures for groundwater purging and sampling activities conducted during the first quarter 2019. During the first quarter 2019 groundwater monitoring event, groundwater samples were collected from the Site monitoring well network.

### General Procedures

Prior to collecting groundwater samples, groundwater levels were measured at each of the Site monitoring wells. The presence of LNAPL was also evaluated using an IP. Subsequently, a minimum of three casing volumes of groundwater (calculated from total well depth and groundwater level measurements) was purged from the subject well prior to collecting a groundwater sample.

Groundwater samples were collected using dedicated, disposable, polyethylene bailers and were placed in clean laboratory-supplied containers for the selected analytical method, packed in an ice-filled cooler, and kept at approximately 4 degrees Celsius for transportation to the laboratory.

Groundwater samples were submitted under chain-of-custody procedures to Summit Scientific Laboratory in Golden, Colorado for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) using United States Environmental Protection Agency (USEPA) Method 8260B.

## 3.0 FIRST QUARTER 2019 GROUNDWATER SAMPLING RESULTS

This section presents the results of the first quarter 2019 groundwater sampling event. Groundwater laboratory analytical data is presented in Table 2 and illustrated on Figure 4. 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 not detected above the COGCC Table 910-1 groundwater standard of 5 micrograms per liter ( $\mu\text{g}/\text{L}$ ) in any of the 27 Site monitoring wells sampled.
- Toluene was not detected above the COGCC Table 910-1 groundwater standard of 560  $\mu\text{g}/\text{L}$  in any of the 27 Site monitoring wells sampled.
- Ethylbenzene was not detected above the COGCC Table 910-1 groundwater standard of 700  $\mu\text{g}/\text{L}$  in any of the 27 Site monitoring wells sampled.
- Total xylenes were not detected above the COGCC Table 910-1 groundwater standard of 1,400  $\mu\text{g}/\text{L}$  in any of the 27 Site monitoring wells sampled.

## 4.0 REMEDIATION SYSTEM OPERATIONS

This section summarizes data for the AS/SVE remediation system that was previously in operation at the Site. The remediation system is shut down a minimum of one week prior to quarterly sampling events to allow for normalization of Site groundwater levels.

In September and October 2015, Tasman installed the AS/SVE system at the Site (System). The System consists of 6 horizontal AS wells and 5 horizontal SVE wells, as shown on Figure 5. The System equipment is housed in a trailer that was placed along the southern Site fence. The AS and SVE wells are plumbed to the System trailer and are connected to individual headers inside the trailer. Operation of the System was initiated on November 12, 2015, and all of the AS and SVE wells were put into operation. In addition to the dedicated AS lines, monitoring wells MW-02R, MW-03, and MW-12 were converted to dual purpose AS monitoring wells.

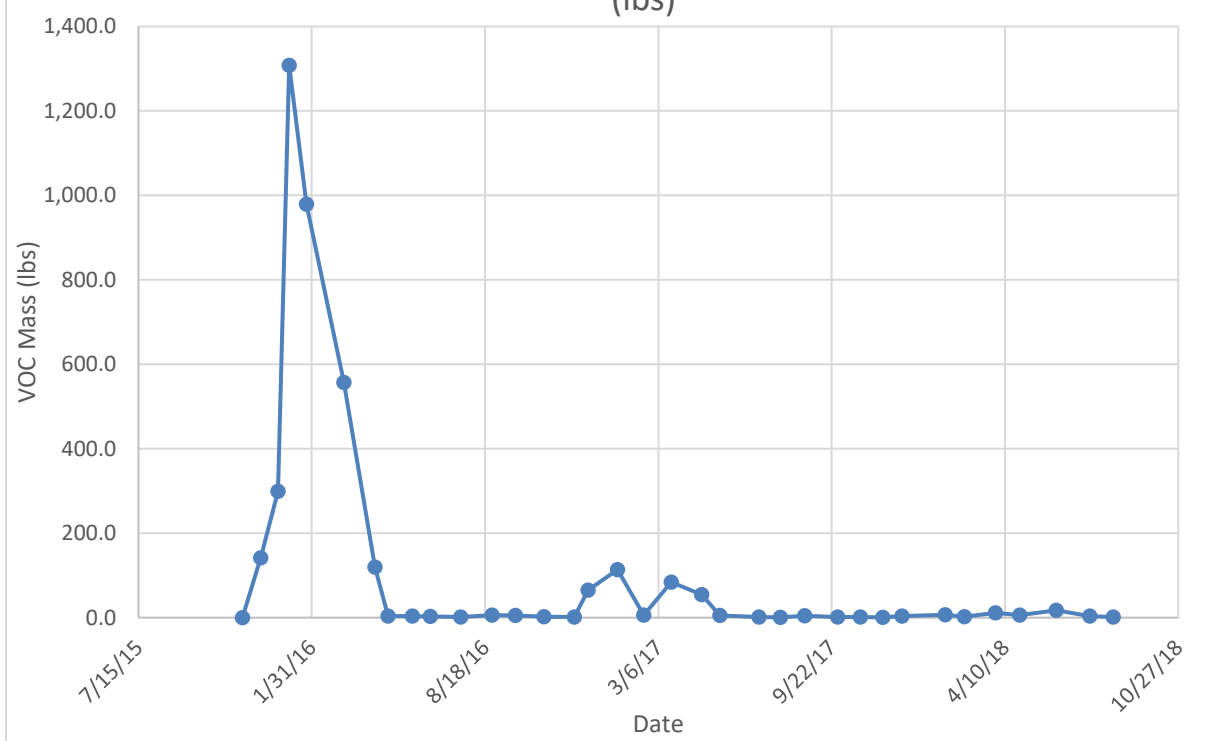
Tasman completed enhanced fluid recovery (EFR) and AS activities at groundwater monitoring wells MW-25 weekly during August and September 2017, to enhance remediation efforts at the Site. A summary of EFR/AS operational data is presented in Table 3.

Based on analytical data collected during the fourth quarter 2017, it appeared EFR/AS was effective at addressing impacts in the area of MW-25 and MW-16. To address impacts in the area of MW-02R and MW-12, EFR/AS activities were initiated at these groundwater monitoring wells in January 2018 and continued until mid-February 2018. Based on analytical data collected during the first quarter 2018 it appeared EFR/AS was effective at addressing impacts in the area of MW-02R and MW-12.

The third quarter 2018 sampling event marked two consecutive quarters where all monitoring wells on site were below COGCC Table 910-1 limits. As a result, the remediation system was not restarted after sampling and was removed from site on December 3, 2018.

The following two charts illustrate mass removal per emission sample event (Chart 1) and total mass extracted verses time (Chart 2) since System operation was initiated.

Chart 1 - Sylvester 31-5H5, 6H5  
Remediation System Mass Removal Per Emission Sample Date  
(lbs)





## **TABLES**

**TABLE 1  
GROUNDWATER ELEVATION DATA  
NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID | Date     | Top of Casing Elevation (ft. AMSL) | Total Depth (ft. BTOC)                  | Depth to Water (ft. BTOC) | Depth to LNAPL (ft. BTOC)  | LNAPL Thickness (ft.)      | Groundwater Elevation (ft. AMSL) |
|--------------------|----------|------------------------------------|---|---------------------------|----------------------------|----------------------------|----------------------------------|
| MW-01              | 05/11/15 | NM                                 | 7.32                                    | 1.55                      | ND                         | ND                         | NM                               |
| MW-01              | 06/25/15 | 4652.59                            | 7.14                                    | 3.18                      | ND                         | ND                         | 4649.41                          |
| MW-01              | 07/30/15 | 4652.59                            | NM                                      | 4.48                      | ND                         | ND                         | 4648.11                          |
| MW-01              | 08/11/15 | 4652.59                            | 7.14                                    | 4.28                      | ND                         | ND                         | 4648.31                          |
| MW-01              | 11/30/15 | 4652.59                            | 7.08                                    | 5.11                      | ND                         | ND                         | 4647.48                          |
| MW-01              | 02/25/16 | 4652.59                            | 7.08                                    | 5.28                      | ND                         | ND                         | 4647.31                          |
| MW-01              | 05/19/16 | 4652.59                            | 7.08                                    | 4.20                      | ND                         | ND                         | 4648.39                          |
| MW-01              | 08/10/16 | 4652.59                            | 7.08                                    | 4.65                      | ND                         | ND                         | 4647.94                          |
| MW-01              | 11/16/16 | 4652.59                            | 7.04                                    | 5.11                      | ND                         | ND                         | 4647.48                          |
| MW-01              | 02/10/17 | 4652.59                            | 7.04                                    | 5.46                      | ND                         | ND                         | 4647.13                          |
| MW-01              | 05/23/17 | 4652.59                            | 7.04                                    | 3.84                      | ND                         | ND                         | 4648.75                          |
| MW-01              | 08/29/17 | 4652.59                            | 7.18                                    | 4.52                      | ND                         | ND                         | 4648.07                          |
| MW-01              | 11/27/17 | 4652.59                            | 7.25                                    | 4.96                      | ND                         | ND                         | 4647.63                          |
| MW-01              | 02/15/18 | 4652.59                            | 7.24                                    | 5.41                      | ND                         | ND                         | 4647.18                          |
| MW-01              | 05/31/18 | 4652.59                            | 7.26                                    | 4.52                      | ND                         | ND                         | 4648.07                          |
| MW-01              | 08/30/18 | 4652.59                            | 7.22                                    | 4.70                      | ND                         | ND                         | 4647.89                          |
| MW-01              | 11/27/18 | 4652.59                            | 7.25                                    | 5.20                      | ND                         | ND                         | 4647.39                          |
| MW-01              | 02/13/19 | 4652.59                            | 7.24                                    | 5.46                      | ND                         | ND                         | 4647.13                          |
| MW-02              | 05/11/15 | 4653.00                            | 7.61                                    | 1.65                      | ND                         | ND                         | 4651.35                          |
| MW-02              | 06/25/15 | 4653.00                            | 7.58                                    | 3.60                      | ND                         | ND                         | 4649.40                          |
| MW-02              | 07/30/15 | 4653.00                            | NM                                      | 4.96                      | ND                         | ND                         | 4648.04                          |
| MW-02              | 08/11/15 | 4653.00                            | 7.58                                    | 4.74                      | ND                         | ND                         | 4648.26                          |
| MW-02              | 11/30/15 | 4653.00                            | NM                                      | DRY                       | ND                         | ND                         | DRY                              |
| MW-02              | 02/25/16 | 4653.00                            | NM                                      | DRY                       | ND                         | ND                         | DRY                              |
| MW-02              | 05/19/16 | 4653.00                            | 4.84                                    | 4.64                      | ND                         | ND                         | DRY                              |
| MW-02              | 08/10/16 | 4653.00                            | 4.84                                    | DRY                       | ND                         | ND                         | DRY                              |
| MW-02              | 11/16/16 | 4653.00                            | NM                                      | NM <sup>3</sup>           | NM                         | NM                         | NM                               |
| MW-02              | 02/10/17 | 4653.00                            | NM                                      | NM <sup>3</sup>           | NM                         | NM                         | NM                               |
| MW-02              | 05/23/17 | 4653.00                            | 4.81                                    | 4.28                      | ND                         | ND                         | 4648.72                          |
| MW-02              | 08/29/17 | 4653.00                            | 4.83                                    | NM <sup>3</sup>           | NM                         | NM                         | NM                               |
| MW-02              | 09/28/17 |                                    | Not Sampled - Monitoring Well Destroyed |                           |                            |                            |                                  |
| MW-02R             | 11/27/17 | 4652.73                            | 8.32                                    | 5.15                      | ND                         | ND                         | 4647.58                          |
| MW-02R             | 02/15/18 | 4652.73                            | 8.25                                    | 5.59                      | ND                         | ND                         | 4647.14                          |
| MW-02R             | 05/31/18 | 4652.55                            | 8.10                                    | 4.46                      | ND                         | ND                         | 4648.09                          |
| MW-02R             | 08/30/18 | 4652.55                            | 8.05                                    | 4.84                      | ND                         | ND                         | 4647.71                          |
| MW-02R             | 11/27/18 | 4652.55                            | 8.03                                    | 5.32                      | ND                         | ND                         | 4647.23                          |
| MW-02R             | 02/13/19 | 4652.55                            | 8.10                                    | 5.58                      | ND                         | ND                         | 4646.97                          |
| MW-03              | 05/11/15 | 4652.56                            | 7.40                                    | 1.20                      | 1.19                       | 0.01                       | 4651.37                          |
| MW-03              | 06/25/15 | 4652.56                            | 7.35                                    | 3.22                      | 3.18                       | 0.04                       | 4649.37                          |
| MW-03              | 07/30/15 | 4652.56                            | NM                                      | 4.58                      | 4.55                       | 0.03                       | 4648.00                          |
| MW-03              | 08/11/15 | 4652.56                            | 7.35                                    | 4.35                      | 4.34                       | 0.01                       | 4648.22                          |
| MW-03              | 11/30/15 | 4652.56                            | 7.30                                    | 5.20                      | LNAPL Present <sup>2</sup> | LNAPL Present <sup>2</sup> | 4647.38                          |
| MW-03              | 02/25/16 | 4652.56                            | 7.30                                    | 5.34                      | ND                         | ND                         | 4647.22                          |
| MW-03              | 05/19/16 | 4652.56                            | 7.30                                    | 4.24                      | ND                         | ND                         | 4648.32                          |
| MW-03              | 08/10/16 | 4652.56                            | 7.30                                    | 4.58                      | ND                         | ND                         | 4647.98                          |
| MW-03              | 11/16/16 | 4652.56                            | 7.26                                    | 5.19                      | ND                         | ND                         | 4647.37                          |
| MW-03              | 02/10/17 | 4652.56                            | 7.26                                    | 5.53                      | Sheen                      | Sheen                      | 4647.03                          |
| MW-03              | 05/23/17 | 4652.56                            | 7.26                                    | 3.89                      | Sheen                      | Sheen                      | 4648.67                          |

**TABLE 1**  
**GROUNDWATER ELEVATION DATA**  
**NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID | Date     | Top of Casing Elevation (ft. AMSL)                     | Total Depth (ft. BTOC) | Depth to Water (ft. BTOC) | Depth to LNAPL (ft. BTOC) | LNAPL Thickness (ft.) | Groundwater Elevation (ft. AMSL) |
|--------------------|----------|--|------------------------|---------------------------|---------------------------|-----------------------|----------------------------------|
| MW-03              | 08/29/17 | 4652.56  | 7.34                   | 4.60                      | ND                        | ND                    | 4647.96                          |
| MW-03              | 11/27/17 | 4652.56  | 7.37                   | 5.02                      | ND                        | ND                    | 4647.54                          |
| MW-03              | 02/15/18 | 4652.56  | 6.86                   | 5.47                      | Sheen                     | Sheen                 | 4647.09                          |
| MW-03              | 05/31/18 | 4651.99  | 6.81                   | 4.05                      | ND                        | ND                    | 4647.94                          |
| MW-03              | 08/30/18 | 4651.99  | 6.40                   | 4.23                      | ND                        | ND                    | 4647.76                          |
| MW-03              | 11/27/18 | 4651.99  | 6.92                   | 4.72                      | ND                        | ND                    | 4647.27                          |
| MW-03              | 02/13/19 | 4651.99  | 6.90                   | 4.96                      | ND                        | ND                    | 4647.03                          |
| MW-04              | 05/11/15 | 4652.42  | 7.22                   | 1.06                      | 1.06                      | TRACE                 | 4651.36                          |
| MW-04              | 06/25/15 | 4652.42  | 7.16                   | 3.10                      | 3.06                      | 0.04                  | 4649.35                          |
| MW-04              | 07/30/15 | 4652.42  | NM                     | 4.50                      | 4.48                      | 0.02                  | 4647.94                          |
| MW-04              | 08/11/15 | 4652.42  | 7.16                   | 4.27                      | 4.25                      | 0.02                  | 4648.17                          |
| MW-04              | 11/30/15 | 4652.42  | 7.19                   | 5.13                      | ND                        | ND                    | 4647.29                          |
| MW-04              | 02/25/16 | 4652.42  | 7.19                   | 5.26                      | ND                        | ND                    | 4647.16                          |
| MW-04              | 05/19/16 | 4652.42  | 7.19                   | 4.14                      | ND                        | ND                    | 4648.28                          |
| MW-04              | 08/10/16 | 4652.42  | 7.19                   | 4.51                      | ND                        | ND                    | 4647.91                          |
| MW-04              | 11/16/16 | 4652.42  | 7.16                   | 5.12                      | ND                        | ND                    | 4647.30                          |
| MW-04              | 02/10/17 | 4652.42  | 7.16                   | 5.46                      | ND                        | ND                    | 4646.96                          |
| MW-04              | 05/23/17 | 4652.42  | 7.16                   | 3.81                      | Sheen                     | Sheen                 | 4648.61                          |
| MW-04              | 08/29/17 | 4652.42  | 7.22                   | 4.53                      | ND                        | ND                    | 4647.89                          |
| MW-04              | 11/27/17 | 4652.42  | 7.27                   | 4.98                      | ND                        | ND                    | 4647.44                          |
| MW-04              | 02/15/18 | 4652.42  | NM                     | 5.42                      | ND                        | ND                    | 4647.00                          |
| MW-04              | 05/31/18 | 4652.43  | 7.25                   | 4.50                      | ND                        | ND                    | 4647.93                          |
| MW-04              | 08/30/18 | 4652.43  | 7.21                   | 4.72                      | ND                        | ND                    | 4647.71                          |
| MW-04              | 11/27/18 | 4652.43  | 7.23                   | 5.21                      | ND                        | ND                    | 4647.22                          |
| MW-04              | 02/13/19 | 4652.43  | 7.22                   | 5.47                      | ND                        | ND                    | 4646.96                          |
| MW-05              | 05/11/15 | 4652.89  | 7.45                   | 1.46                      | ND                        | ND                    | 4651.43                          |
| MW-05              | 06/25/15 | 4652.89  | 7.42                   | 3.53                      | ND                        | ND                    | 4649.36                          |
| MW-05              | 07/30/15 | 4652.89  | NM                     | 4.90                      | ND                        | ND                    | 4647.99                          |
| MW-05              | 08/11/15 | 4652.89  | 7.42                   | 4.68                      | ND                        | ND                    | 4648.21                          |
| MW-05              | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                        |                           |                           |                       |                                  |
| MW-06              | 05/11/15 | 4652.56  | 7.33                   | 1.17                      | ND                        | ND                    | 4651.39                          |
| MW-06              | 06/25/15 | 4652.56  | 7.26                   | 3.25                      | ND                        | ND                    | 4649.31                          |
| MW-06              | 07/30/15 | 4652.56  | NM                     | 4.65                      | ND                        | ND                    | 4647.91                          |
| MW-06              | 08/11/15 | 4652.56  | 7.26                   | 4.41                      | ND                        | ND                    | 4648.15                          |
| MW-06              | 11/30/15 | 4652.56  | 7.10                   | 5.26                      | ND                        | ND                    | 4647.30                          |
| MW-06              | 02/25/16 | 4652.56  | 7.10                   | 5.43                      | ND                        | ND                    | 4647.13                          |
| MW-06              | 05/19/16 | 4652.56  | 7.10                   | 4.30                      | ND                        | ND                    | 4648.26                          |
| MW-06              | 08/10/16 | 4652.56  | 7.10                   | 4.66                      | ND                        | ND                    | 4647.90                          |
| MW-06              | 11/16/16 | 4652.56  | 7.23                   | 5.27                      | ND                        | ND                    | 4647.29                          |
| MW-06              | 02/10/17 | 4652.56  | 7.23                   | 5.59                      | ND                        | ND                    | 4646.97                          |
| MW-06              | 05/23/17 | 4652.56  | 7.23                   | 3.96                      | ND                        | ND                    | 4648.60                          |
| MW-06              | 08/29/17 | 4652.56  | 7.23                   | 4.74                      | ND                        | ND                    | 4647.82                          |
| MW-06              | 11/27/17 | 4652.56  | 7.27                   | 5.13                      | ND                        | ND                    | 4647.43                          |
| MW-06              | 02/15/18 | 4652.56  | 7.22                   | 5.57                      | ND                        | ND                    | 4646.99                          |
| MW-06              | 05/31/18 | 4652.60  | 7.32                   | 4.70                      | ND                        | ND                    | 4647.90                          |
| MW-06              | 08/30/18 | 4652.60  | 7.34                   | 4.86                      | ND                        | ND                    | 4647.74                          |
| MW-06              | 11/27/18 | 4652.60  | 7.36                   | 5.34                      | ND                        | ND                    | 4647.26                          |
| MW-06              | 02/13/19 | 4652.60  | 7.37                   | 5.63                      | ND                        | ND                    | 4646.97                          |
| MW-07              | 05/11/15 | NM   | 7.43                   | 1.42                      | ND                        | ND                    | NM                               |
| MW-07              | 06/25/15 | NM   | 7.29                   | 3.22                      | ND                        | ND                    | NM                               |

**TABLE 1  
GROUNDWATER ELEVATION DATA  
NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID | Date     | Top of Casing Elevation (ft. AMSL)                     | Total Depth (ft. BTOC) | Depth to Water (ft. BTOC) | Depth to LNAPL (ft. BTOC)  | LNAPL Thickness (ft.)      | Groundwater Elevation (ft. AMSL) |
|--------------------|----------|--|------------------------|---------------------------|----------------------------|----------------------------|----------------------------------|
| MW-07              | 07/30/15 | 4652.54  | NM                     | 4.60                      | ND                         | ND                         | 4647.94                          |
| MW-07              | 08/11/15 | 4652.54  | 7.29                   | 4.39                      | ND                         | ND                         | 4648.15                          |
| MW-07              | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                        |                           |                            |                            |                                  |
| MW-08              | 05/11/15 | 4652.78  | 7.62                   | 1.36                      | ND                         | ND                         | 4651.42                          |
| MW-08              | 06/25/15 | 4652.78  | 7.57                   | 3.39                      | ND                         | ND                         | 4649.39                          |
| MW-08              | 07/30/15 | 4652.78  | NM                     | 4.70                      | ND                         | ND                         | 4648.08                          |
| MW-08              | 08/11/15 | 4652.78  | 7.57                   | 4.52                      | ND                         | ND                         | 4648.26                          |
| MW-08              | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                        |                           |                            |                            |                                  |
| MW-09              | 05/11/15 | 4652.80  | 7.42                   | 1.42                      | ND                         | ND                         | 4651.38                          |
| MW-09              | 06/25/15 | 4652.80  | 7.39                   | 3.36                      | ND                         | ND                         | 4649.44                          |
| MW-09              | 07/30/15 | 4652.80  | NM                     | 4.64                      | ND                         | ND                         | 4648.16                          |
| MW-09              | 08/11/15 | 4652.80  | 7.39                   | 4.46                      | ND                         | ND                         | 4648.34                          |
| MW-09              | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                        |                           |                            |                            |                                  |
| MW-10              | 05/11/15 | 4652.64  | 7.71                   | 1.32                      | ND                         | ND                         | 4651.32                          |
| MW-10              | 06/25/15 | 4652.64  | 7.66                   | 3.21                      | ND                         | ND                         | 4649.43                          |
| MW-10              | 07/30/15 | 4652.64  | NM                     | 4.99                      | 4.42                       | 0.57                       | 4648.08                          |
| MW-10              | 08/11/15 | 4652.64  | 7.66                   | 4.36                      | 4.34                       | 0.02                       | 4648.30                          |
| MW-10              | 11/30/15 | 4652.64  | 7.56                   | 5.21                      | ND                         | ND                         | 4647.43                          |
| MW-10              | 02/25/16 | 4652.64  | 7.56                   | 5.37                      | ND                         | ND                         | 4647.27                          |
| MW-10              | 05/19/16 | 4652.64  | 7.56                   | 4.26                      | ND                         | ND                         | 4648.38                          |
| MW-10              | 08/10/16 | 4652.64  | 7.56                   | 4.56                      | ND                         | ND                         | 4648.08                          |
| MW-10              | 11/16/16 | 4652.64  | 7.60                   | 5.20                      | ND                         | ND                         | 4647.44                          |
| MW-10              | 02/10/17 | 4652.64  | 7.60                   | 5.57                      | ND                         | ND                         | 4647.07                          |
| MW-10              | 05/23/17 | 4652.64  | 7.60                   | 3.91                      | ND                         | ND                         | 4648.73                          |
| MW-10              | 08/29/17 | Well Destroyed - Not Sampled                           |                        |                           |                            |                            |                                  |
| MW-10R             | 11/27/17 | 4652.54  | 7.48                   | 4.93                      | ND                         | ND                         | 4647.61                          |
| MW-10R             | 02/15/18 | 4652.54  | 7.49                   | 5.40                      | ND                         | ND                         | 4647.14                          |
| MW-10R             | 05/31/18 | 4652.55  | 7.60                   | 4.48                      | ND                         | ND                         | 4648.07                          |
| MW-10R             | 08/30/18 | 4652.55  | 7.58                   | 4.69                      | ND                         | ND                         | 4647.86                          |
| MW-10R             | 11/27/18 | 4652.55  | 7.60                   | 5.19                      | ND                         | ND                         | 4647.36                          |
| MW-10R             | 02/13/19 | 4652.55  | 7.59                   | 5.47                      | ND                         | ND                         | 4647.08                          |
| MW-11              | 05/11/15 | 4652.78  | 7.60                   | 1.44                      | ND                         | ND                         | 4651.34                          |
| MW-11              | 06/25/15 | 4652.78  | 7.50                   | 3.31                      | ND                         | ND                         | 4649.47                          |
| MW-11              | 07/30/15 | 4652.78  | NM                     | 4.61                      | ND                         | ND                         | 4648.17                          |
| MW-11              | 08/11/15 | 4652.78  | 7.50                   | 4.44                      | ND                         | ND                         | 4648.34                          |
| MW-11              | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                        |                           |                            |                            |                                  |
| MW-12              | 05/11/15 | 4652.64  | 7.56                   | 1.26                      | LNAPL Present <sup>2</sup> | LNAPL Present <sup>2</sup> | 4651.46                          |
| MW-12              | 06/25/15 | 4652.64  | 7.52                   | 3.65                      | 3.11                       | 0.54                       | 4649.40                          |
| MW-12              | 07/30/15 | 4652.64  | NM                     | 4.69                      | 4.56                       | 0.13                       | 4648.05                          |
| MW-12              | 08/11/15 | 4652.64  | 7.52                   | 4.47                      | 4.37                       | 0.10                       | 4648.25                          |
| MW-12              | 11/30/15 | 4652.64  | 7.30                   | 5.22                      | LNAPL Present <sup>2</sup> | LNAPL Present <sup>2</sup> | 4647.44                          |
| MW-12              | 02/25/16 | 4652.64  | 7.30                   | 5.40                      | ND                         | ND                         | 4647.24                          |
| MW-12              | 05/19/16 | 4652.64  | 7.30                   | 4.27                      | ND                         | ND                         | 4648.37                          |
| MW-12              | 08/10/16 | 4652.64  | 7.30                   | 4.61                      | ND                         | ND                         | 4648.03                          |
| MW-12              | 11/16/16 | 4652.64  | 7.24                   | 5.25                      | ND                         | ND                         | 4647.39                          |
| MW-12              | 02/10/17 | 4652.64  | 7.24                   | 5.60                      | ND                         | ND                         | 4647.04                          |
| MW-12              | 05/23/17 | 4652.64  | 7.24                   | 3.97                      | ND                         | ND                         | 4648.67                          |
| MW-12              | 08/29/17 | 4652.64  | 7.50                   | 4.66                      | ND                         | ND                         | 4647.98                          |
| MW-12              | 11/27/17 | 4652.64  | 7.59                   | 5.14                      | ND                         | ND                         | 4647.50                          |
| MW-12              | 02/15/18 | 4652.64  | 7.50                   | 5.53                      | Sheen                      | Sheen                      | 4647.11                          |

**TABLE 1**  
**GROUNDWATER ELEVATION DATA**  
**NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID | Date     | Top of Casing Elevation (ft. AMSL)                     | Total Depth (ft. BTOC) | Depth to Water (ft. BTOC) | Depth to LNAPL (ft. BTOC) | LNAPL Thickness (ft.) | Groundwater Elevation (ft. AMSL) |
|--------------------|----------|--|------------------------|---------------------------|---------------------------|-----------------------|----------------------------------|
| MW-12              | 05/31/18 | 4652.28  | 7.26                   | 4.26                      | ND                        | ND                    | 4648.02                          |
| MW-12              | 08/30/18 | 4652.28  | 7.23                   | 4.49                      | ND                        | ND                    | 4647.79                          |
| MW-12              | 11/27/18 | 4652.28  | 7.26                   | 4.98                      | ND                        | ND                    | 4647.30                          |
| MW-12              | 02/13/19 | 4652.28  | 7.25                   | 5.25                      | ND                        | ND                    | 4647.03                          |
| MW-13              | 05/11/15 | 4652.66  | 7.68                   | 1.34                      | ND                        | ND                    | 4651.32                          |
| MW-13              | 06/25/15 | 4652.66  | 7.63                   | 3.28                      | ND                        | ND                    | 4649.38                          |
| MW-13              | 07/30/15 | 4652.66  | NM                     | 4.69                      | ND                        | ND                    | 4647.97                          |
| MW-13              | 08/11/15 | 4652.66  | 7.63                   | 4.46                      | ND                        | ND                    | 4648.20                          |
| MW-13              | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                        |                           |                           |                       |                                  |
| MW-14              | 05/11/15 | 4652.26  | 7.67                   | 1.12                      | ND                        | ND                    | 4651.14                          |
| MW-14              | 06/25/15 | 4652.26  | 7.64                   | 2.91                      | ND                        | ND                    | 4649.35                          |
| MW-14              | 07/30/15 | 4652.26  | NM                     | 4.31                      | ND                        | ND                    | 4647.95                          |
| MW-14              | 08/11/15 | 4652.26  | 7.64                   | 4.09                      | ND                        | ND                    | 4648.17                          |
| MW-14              | 11/30/15 | 4652.26  | 7.43                   | 4.99                      | ND                        | ND                    | 4647.27                          |
| MW-14              | 02/25/16 | 4652.26  | 7.43                   | 5.37                      | 5.05                      | 0.32                  | 4647.13                          |
| MW-14              | 05/19/16 | 4652.26  | 7.43                   | 3.98                      | ND                        | ND                    | 4648.28                          |
| MW-14              | 08/10/16 | 4652.26  | 7.43                   | 4.32                      | ND                        | ND                    | 4647.94                          |
| MW-14              | 11/16/16 | 4652.26  | 7.36                   | 4.98                      | Sheen                     | Sheen                 | 4647.28                          |
| MW-14              | 02/10/17 | 4652.26  | 7.36                   | 5.32                      | ND                        | ND                    | 4646.94                          |
| MW-14              | 05/23/17 | 4652.26  | 7.36                   | 3.65                      | ND                        | ND                    | 4648.61                          |
| MW-14              | 08/29/17 | 4652.26  | 7.47                   | 4.40                      | ND                        | ND                    | 4647.86                          |
| MW-14              | 11/27/17 | 4652.26  | 7.47                   | 4.80                      | ND                        | ND                    | 4647.46                          |
| MW-14              | 02/15/18 | 4652.26  | 7.50                   | 5.28                      | ND                        | ND                    | 4646.98                          |
| MW-14              | 05/31/18 | 4652.26  | 7.67                   | 4.36                      | ND                        | ND                    | 4647.90                          |
| MW-14              | 08/30/18 | 4652.26  | 7.62                   | 4.56                      | ND                        | ND                    | 4647.70                          |
| MW-14              | 11/27/18 | 4652.26  | 7.64                   | 5.06                      | ND                        | ND                    | 4647.20                          |
| MW-14              | 02/13/19 | 4652.26  | 7.70                   | 5.31                      | ND                        | ND                    | 4646.95                          |
| MW-15              | 05/11/15 | 4652.02  | 7.51                   | 0.70                      | ND                        | ND                    | 4651.32                          |
| MW-15              | 06/25/15 | 4652.02  | 7.44                   | 2.70                      | ND                        | ND                    | 4649.32                          |
| MW-15              | 07/30/15 | 4652.02  | NM                     | 4.12                      | ND                        | ND                    | 4647.90                          |
| MW-15              | 08/11/15 | 4652.02  | 7.44                   | 3.90                      | ND                        | ND                    | 4648.12                          |
| MW-15              | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                        |                           |                           |                       |                                  |
| MW-16              | 05/11/15 | 4652.21  | 7.92                   | 0.80                      | ND                        | ND                    | 4651.41                          |
| MW-16              | 06/25/15 | 4652.21  | 7.81                   | 2.90                      | ND                        | ND                    | 4649.31                          |
| MW-16              | 07/30/15 | 4652.21  | NM                     | 4.34                      | ND                        | ND                    | 4647.87                          |
| MW-16              | 08/11/15 | 4652.21  | 7.81                   | 4.11                      | ND                        | ND                    | 4648.10                          |
| MW-16              | 11/30/15 | 4652.21  | 8.60                   | 5.00                      | ND                        | ND                    | 4647.21                          |
| MW-16              | 02/25/16 | 4652.21  | 8.60                   | 5.12                      | ND                        | ND                    | 4647.09                          |
| MW-16              | 05/19/16 | 4652.21  | 8.60                   | 3.97                      | ND                        | ND                    | 4648.24                          |
| MW-16              | 08/10/16 | 4652.21  | 8.60                   | 4.37                      | ND                        | ND                    | 4647.84                          |
| MW-16              | 11/16/16 | 4652.21  | 7.50                   | 4.97                      | ND                        | ND                    | 4647.24                          |
| MW-16              | 02/10/17 | 4652.21  | 7.50                   | 5.33                      | Sheen                     | Sheen                 | 4646.88                          |
| MW-16              | 05/23/17 | 4652.21  | 7.50                   | 3.68                      | Sheen                     | Sheen                 | 4648.53                          |
| MW-16              | 8/29/17  | 4652.21  | 7.56                   | 4.41                      | ND                        | ND                    | 4647.80                          |
| MW-16              | 11/27/17 | 4652.21  | 7.59                   | 4.87                      | ND                        | ND                    | 4647.34                          |
| MW-16              | 02/15/18 | 4652.21  | 7.55                   | 5.27                      | Sheen                     | Sheen                 | 4646.11                          |
| MW-16              | 05/31/18 | 4652.21  | 7.85                   | 4.42                      | ND                        | ND                    | 4647.79                          |
| MW-16              | 08/30/18 | 4652.21  | 7.83                   | 4.59                      | ND                        | ND                    | 4647.62                          |
| MW-16              | 11/27/18 | 4652.21  | 7.85                   | 5.08                      | ND                        | ND                    | 4647.13                          |
| MW-16              | 02/13/19 | 4652.21  | 7.90                   | 5.34                      | ND                        | ND                    | 4646.87                          |

**TABLE 1  
GROUNDWATER ELEVATION DATA  
NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| <b>Monitoring Well ID</b> | <b>Date</b> | <b>Top of Casing Elevation (ft. AMSL)</b>              | <b>Total Depth (ft. BTOC)</b> | <b>Depth to Water (ft. BTOC)</b> | <b>Depth to LNAPL (ft. BTOC)</b> | <b>LNAPL Thickness (ft.)</b> | <b>Groundwater Elevation (ft. AMSL)</b> |
|---------------------------|-------------|--|-------------------------------|----------------------------------|----------------------------------|------------------------------|---|
| MW-17                     | 05/11/15    | 4652.43  | 7.32                          | 1.14                             | ND                               | ND                           | 4651.29                                 |
| MW-17                     | 06/25/15    | 4652.43  | 7.30                          | 3.01                             | ND                               | ND                           | 4649.42                                 |
| MW-17                     | 07/30/15    | 4652.43  | NM                            | 4.35                             | ND                               | ND                           | 4648.08                                 |
| MW-17                     | 08/11/15    | 4652.43  | 7.30                          | 4.16                             | ND                               | ND                           | 4648.27                                 |
| MW-17                     | 11/30/15    | Well Removed From Monitoring Well Network <sup>1</sup> |                               |                                  |                                  |                              |   |
| MW-18                     | 05/11/15    | 4652.26  | 7.15                          | 0.98                             | ND                               | ND                           | 4651.28                                 |
| MW-18                     | 06/25/15    | 4652.26  | 7.07                          | 2.89                             | ND                               | ND                           | 4649.37                                 |
| MW-18                     | 07/30/15    | 4652.26  | NM                            | 4.25                             | ND                               | ND                           | 4648.01                                 |
| MW-18                     | 08/11/15    | 4652.26  | 7.07                          | 4.05                             | ND                               | ND                           | 4648.21                                 |
| MW-18                     | 11/30/15    | Well Removed From Monitoring Well Network <sup>1</sup> |                               |                                  |                                  |                              |   |
| MW-19                     | 05/11/15    | 4652.06  | 7.51                          | 0.75                             | ND                               | ND                           | 4651.31                                 |
| MW-19                     | 06/25/15    | 4652.06  | 7.49                          | 2.72                             | ND                               | ND                           | 4649.34                                 |
| MW-19                     | 07/30/15    | 4652.06  | NM                            | 4.11                             | ND                               | ND                           | 4647.95                                 |
| MW-19                     | 08/11/15    | 4652.06  | 7.49                          | 3.90                             | ND                               | ND                           | 4648.16                                 |
| MW-19                     | 11/30/15    | Well Removed From Monitoring Well Network <sup>1</sup> |                               |                                  |                                  |                              |   |
| MW-20                     | 05/11/15    | 4652.18  | 7.63                          | 0.75                             | ND                               | ND                           | 4651.43                                 |
| MW-20                     | 06/25/15    | 4652.18  | 7.62                          | 2.89                             | ND                               | ND                           | 4649.29                                 |
| MW-20                     | 07/30/15    | 4652.18  | NM                            | 4.36                             | ND                               | ND                           | 4647.82                                 |
| MW-20                     | 08/11/15    | 4652.18  | 7.62                          | 4.10                             | ND                               | ND                           | 4648.08                                 |
| MW-20                     | 11/30/15    | Well Removed From Monitoring Well Network <sup>1</sup> |                               |                                  |                                  |                              |   |
| MW-21                     | 06/25/15    | 4652.16  | 7.60                          | 2.86                             | 2.85                             | 0.01                         | 4649.31                                 |
| MW-21                     | 07/30/15    | 4652.16  | NM                            | 4.32                             | 4.30                             | 0.02                         | 4647.86                                 |
| MW-21                     | 08/11/15    | 4652.16  | 7.60                          | 4.09                             | ND                               | ND                           | 4648.07                                 |
| MW-21                     | 11/30/15    | 4652.16  | 7.65                          | 5.67                             | ND                               | ND                           | 4646.49                                 |
| MW-21                     | 02/25/16    | 4652.16  | 7.65                          | 5.05                             | ND                               | ND                           | 4647.11                                 |
| MW-21                     | 05/19/16    | 4652.16  | 7.65                          | 4.67                             | ND                               | ND                           | 4647.49                                 |
| MW-21                     | 08/10/16    | 4652.16  | 7.65                          | 4.32                             | ND                               | ND                           | 4647.84                                 |
| MW-21                     | 11/16/16    | 4652.16  | 7.12                          | 4.91                             | ND                               | ND                           | 4647.25                                 |
| MW-21                     | 02/10/17    | 4652.16  | 7.12                          | 5.26                             | ND                               | ND                           | 4646.90                                 |
| MW-21                     | 05/23/17    | 4652.16  | 7.12                          | 3.60                             | Sheen                            | Sheen                        | 4648.56                                 |
| MW-21                     | 08/29/17    | 4652.16  | 7.13                          | 4.35                             | ND                               | ND                           | 4647.81                                 |
| MW-21                     | 11/27/17    | 4652.16  | 7.15                          | 4.74                             | ND                               | ND                           | 4647.42                                 |
| MW-21                     | 02/15/18    | 4652.16  | 7.16                          | 5.21                             | Sheen                            | Sheen                        | 4646.95                                 |
| MW-21                     | 05/31/18    | 4652.16  | 7.40                          | 4.31                             | ND                               | ND                           | 4647.85                                 |
| MW-21                     | 08/30/18    | 4652.16  | 7.51                          | 4.50                             | ND                               | ND                           | 4647.66                                 |
| MW-21                     | 11/27/18    | 4652.16  | 7.61                          | 5.00                             | ND                               | ND                           | 4647.16                                 |
| MW-21                     | 02/13/19    | 4652.16  | 7.62                          | 5.25                             | ND                               | ND                           | 4646.91                                 |
| MW-22                     | 06/25/15    | 4652.87  | 7.69                          | 3.5                              | ND                               | ND                           | 4649.37                                 |
| MW-22                     | 07/30/15    | 4652.87  | NM                            | 4.85                             | ND                               | ND                           | 4648.02                                 |
| MW-22                     | 08/11/15    | 4652.87  | 7.69                          | 4.65                             | ND                               | ND                           | 4648.22                                 |
| MW-22                     | 11/30/15    | Well Removed From Monitoring Well Network <sup>1</sup> |                               |                                  |                                  |                              |   |
| MW-23                     | 06/25/15    | 4652.96  | 7.72                          | 3.65                             | ND                               | ND                           | 4649.31                                 |
| MW-23                     | 07/30/15    | 4652.96  | NM                            | 5.08                             | ND                               | ND                           | 4647.88                                 |
| MW-23                     | 08/11/15    | 4652.96  | 7.72                          | 4.86                             | ND                               | ND                           | 4648.10                                 |
| MW-23                     | 11/30/15    | Well Removed From Monitoring Well Network <sup>1</sup> |                               |                                  |                                  |                              |   |
| MW-24                     | 06/25/15    | 4652.76  | 7.35                          | 2.96                             | ND                               | ND                           | 4649.80                                 |
| MW-24                     | 07/30/15    | 4652.76  | NM                            | 4.43                             | ND                               | ND                           | 4648.33                                 |
| MW-24                     | 08/11/15    | 4652.76  | 7.35                          | 4.17                             | ND                               | ND                           | 4648.59                                 |
| MW-24                     | 11/30/15    | 4652.76  | 6.95                          | 5.06                             | ND                               | ND                           | 4647.70                                 |
| MW-24                     | 02/25/16    | 4652.76  | 6.95                          | 5.17                             | ND                               | ND                           | 4647.59                                 |

**TABLE 1  
GROUNDWATER ELEVATION DATA  
NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| <b>Monitoring Well ID</b> | <b>Date</b> | <b>Top of Casing Elevation (ft. AMSL)</b> | <b>Total Depth (ft. BTOC)</b> | <b>Depth to Water (ft. BTOC)</b> | <b>Depth to LNAPL (ft. BTOC)</b> | <b>LNAPL Thickness (ft.)</b> | <b>Groundwater Elevation (ft. AMSL)</b> |
|---------------------------|-------------|---|-------------------------------|----------------------------------|----------------------------------|------------------------------|---|
| MW-24                     | 05/19/16    | 4652.76                                   | 6.95                          | 4.03                             | ND                               | ND                           | 4648.73                                 |
| MW-24                     | 08/10/16    | 4652.76                                   | 6.95                          | 4.45                             | ND                               | ND                           | 4648.31                                 |
| MW-24                     | 11/16/16    | 4652.76                                   | 7.00                          | 4.99                             | ND                               | ND                           | 4647.77                                 |
| MW-24                     | 02/10/17    | 4652.76                                   | 7.00                          | 5.33                             | ND                               | ND                           | 4647.43                                 |
| MW-24                     | 05/23/17    | 4652.76                                   | 7.00                          | 3.69                             | ND                               | ND                           | 4649.07                                 |
| MW-24                     | 08/29/17    | 4652.76                                   | 7.16                          | 4.45                             | ND                               | ND                           | 4648.31                                 |
| MW-24                     | 11/27/17    | 4652.76                                   | 7.15                          | 4.85                             | ND                               | ND                           | 4647.91                                 |
| MW-24                     | 02/15/18    | 4652.76                                   | 7.15                          | 5.27                             | ND                               | ND                           | 4647.49                                 |
| MW-24                     | 05/31/18    | 4652.76                                   | 7.51                          | 4.45                             | ND                               | ND                           | 4648.31                                 |
| MW-24                     | 08/30/18    | 4652.76                                   | 7.46                          | 4.61                             | ND                               | ND                           | 4648.15                                 |
| MW-24                     | 11/27/18    | 4652.76                                   | 7.49                          | 5.09                             | ND                               | ND                           | 4647.67                                 |
| MW-24                     | 02/13/19    | 4652.76                                   | 7.50                          | 5.35                             | ND                               | ND                           | 4647.41                                 |
| MW-25                     | 06/25/15    | 4652.26                                   | 7.65                          | 3.02                             | 3.02                             | TRACE                        | 4649.24                                 |
| MW-25                     | 07/30/15    | 4652.26                                   | NM                            | 4.34                             | ND                               | ND                           | 4647.92                                 |
| MW-25                     | 08/11/15    | 4652.26                                   | 7.65                          | 4.27                             | ND                               | ND                           | 4647.99                                 |
| MW-25                     | 11/30/15    | 4652.26                                   | 7.00                          | 5.18                             | ND                               | ND                           | 4647.08                                 |
| MW-25                     | 02/25/16    | 4652.26                                   | 7.00                          | 5.24                             | LNAPL Present <sup>2</sup>       | LNAPL Present <sup>2</sup>   | 4647.02                                 |
| MW-25                     | 05/19/16    | 4652.26                                   | 7.00                          | 4.11                             | ND                               | ND                           | 4648.15                                 |
| MW-25                     | 08/10/16    | 4652.26                                   | 7.00                          | 4.56                             | ND                               | ND                           | 4647.70                                 |
| MW-25                     | 11/16/16    | 4652.26                                   | 7.01                          | 5.14                             | ND                               | ND                           | 4647.12                                 |
| MW-25                     | 02/10/17    | 4652.26                                   | 7.01                          | 5.47                             | Sheen                            | Sheen                        | 4646.79                                 |
| MW-25                     | 05/23/17    | 4652.26                                   | 7.01                          | 3.81                             | ND                               | ND                           | 4648.45                                 |
| MW-25                     | 08/29/17    | 4652.26                                   | 7.78                          | 4.67                             | ND                               | ND                           | 4647.59                                 |
| MW-25                     | 11/27/17    | 4652.26                                   | 7.78                          | 5.07                             | ND                               | ND                           | 4647.19                                 |
| MW-25                     | 02/15/18    | 4652.26                                   | 7.66                          | 5.41                             | ND                               | ND                           | 4646.85                                 |
| MW-25                     | 05/31/18    | 4652.26                                   | 7.89                          | 4.61                             | ND                               | ND                           | 4647.65                                 |
| MW-25                     | 08/30/18    | 4652.26                                   | 7.74                          | 4.84                             | ND                               | ND                           | 4647.42                                 |
| MW-25                     | 11/27/18    | 4652.26                                   | 7.77                          | 5.32                             | ND                               | ND                           | 4646.94                                 |
| MW-25                     | 02/13/19    | 4652.26                                   | 7.75                          | 5.56                             | ND                               | ND                           | 4646.70                                 |
| MW-26                     | 06/25/15    | 4651.88                                   | 7.29                          | 2.71                             | ND                               | ND                           | 4649.17                                 |
| MW-26                     | 07/30/15    | 4651.88                                   | NM                            | 4.22                             | ND                               | ND                           | 4647.66                                 |
| MW-26                     | 08/11/15    | 4651.88                                   | 7.29                          | 3.93                             | ND                               | ND                           | 4647.95                                 |
| MW-26                     | 11/30/15    | 4651.88                                   | 6.80                          | 4.89                             | ND                               | ND                           | 4646.99                                 |
| MW-26                     | 02/25/16    | 4651.88                                   | 6.80                          | 5.00                             | ND                               | ND                           | 4646.88                                 |
| MW-26                     | 05/19/16    | 4651.88                                   | 6.80                          | 3.80                             | ND                               | ND                           | 4648.08                                 |
| MW-26                     | 08/10/16    | 4651.88                                   | 6.80                          | 4.27                             | ND                               | ND                           | 4647.61                                 |
| MW-26                     | 11/16/16    | 4651.88                                   | 6.88                          | 4.88                             | ND                               | ND                           | 4647.00                                 |
| MW-26                     | 02/10/17    | 4651.88                                   | 6.88                          | 5.22                             | ND                               | ND                           | 4646.66                                 |
| MW-26                     | 05/23/17    | 4651.88                                   | 6.88                          | 3.53                             | ND                               | ND                           | 4648.35                                 |
| MW-26                     | 08/29/17    | 4651.88                                   | 7.11                          | 4.32                             | ND                               | ND                           | 4647.56                                 |
| MW-26                     | 11/27/17    | 4651.88                                   | 7.07                          | 4.72                             | ND                               | ND                           | 4647.16                                 |
| MW-26                     | 02/15/18    | 4651.88                                   | 7.18                          | 5.15                             | ND                               | ND                           | 4646.73                                 |
| MW-26                     | 05/31/18    | 4651.88                                   | 7.40                          | 4.26                             | ND                               | ND                           | 4647.62                                 |
| MW-26                     | 08/30/18    | 4651.88                                   | 7.38                          | 4.52                             | ND                               | ND                           | 4647.36                                 |
| MW-26                     | 11/27/18    | 4651.88                                   | 7.49                          | 4.98                             | ND                               | ND                           | 4646.90                                 |
| MW-26                     | 02/13/19    | 4651.88                                   | 7.55                          | 5.22                             | ND                               | ND                           | 4646.66                                 |
| MW-27                     | 06/25/15    | 4651.72                                   | 7.48                          | 2.57                             | ND                               | ND                           | 4649.15                                 |
| MW-27                     | 07/30/15    | 4651.72                                   | NM                            | 4.11                             | ND                               | ND                           | 4647.61                                 |
| MW-27                     | 08/11/15    | 4651.72                                   | 7.48                          | 3.82                             | ND                               | ND                           | 4647.90                                 |
| MW-27                     | 11/30/15    | 4651.72                                   | 7.05                          | 4.74                             | ND                               | ND                           | 4646.98                                 |

**TABLE 1  
GROUNDWATER ELEVATION DATA  
NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| <b>Monitoring Well ID</b> | <b>Date</b> | <b>Top of Casing Elevation (ft. AMSL)</b> | <b>Total Depth (ft. BTOC)</b> | <b>Depth to Water (ft. BTOC)</b> | <b>Depth to LNAPL (ft. BTOC)</b> | <b>LNAPL Thickness (ft.)</b> | <b>Groundwater Elevation (ft. AMSL)</b> |
|---------------------------|-------------|---|-------------------------------|----------------------------------|----------------------------------|------------------------------|---|
| MW-27                     | 02/25/16    | 4651.72                                   | 7.05                          | 4.84                             | ND                               | ND                           | 4646.88                                 |
| MW-27                     | 05/19/16    | 4651.72                                   | 7.05                          | 3.62                             | ND                               | ND                           | 4648.10                                 |
| MW-27                     | 08/10/16    | 4651.72                                   | 7.05                          | 4.13                             | ND                               | ND                           | 4647.59                                 |
| MW-27 <sup>4</sup>        | 11/16/16    | 4651.72                                   | NM                            | NM                               | NM                               | NM                           | NM                                      |
| MW-27 <sup>4</sup>        | 02/10/17    | 4651.72                                   | NM                            | NM                               | NM                               | NM                           | NM                                      |
| MW-27                     | 05/23/17    | 4651.72                                   | 7.40                          | 3.36                             | ND                               | ND                           | 4648.36                                 |
| MW-27                     | 08/29/17    | 4651.72                                   | 7.39                          | 4.16                             | ND                               | ND                           | 4647.56                                 |
| MW-27                     | 11/27/17    | 4651.72                                   | 7.43                          | 4.57                             | ND                               | ND                           | 4647.15                                 |
| MW-27                     | 02/15/18    | 4651.72                                   | 7.36                          | 4.98                             | ND                               | ND                           | 4646.74                                 |
| MW-27                     | 05/31/18    | 4651.72                                   | 7.41                          | 4.50                             | ND                               | ND                           | 4647.22                                 |
| MW-27                     | 08/30/18    | 4651.72                                   |                               | Not Measured - Well Inaccessible |                                  |                              |   |
| MW-27                     | 11/27/18    | 4651.72                                   |                               | Not Measured - Well Inaccessible |                                  |                              |   |
| MW-27                     | 02/13/19    | 4651.72                                   | 7.38                          | 5.06                             | ND                               | ND                           | 4646.66                                 |
| MW-28                     | 06/25/15    | 4652.64                                   | 7.27                          | 3.46                             | ND                               | ND                           | 4649.18                                 |
| MW-28                     | 07/30/15    | 4652.64                                   | NM                            | 5.01                             | ND                               | ND                           | 4647.63                                 |
| MW-28                     | 08/11/15    | 4652.64                                   | 7.27                          | 4.72                             | ND                               | ND                           | 4647.92                                 |
| MW-28                     | 11/30/15    | 4652.64                                   | 7.27                          | 5.62                             | ND                               | ND                           | 4647.02                                 |
| MW-28                     | 02/25/16    | 4652.64                                   | 7.27                          | 5.71                             | ND                               | ND                           | 4646.93                                 |
| MW-28                     | 05/19/16    | 4652.64                                   | 7.27                          | 4.54                             | ND                               | ND                           | 4648.10                                 |
| MW-28                     | 08/10/16    | 4652.64                                   | 7.27                          | 5.01                             | ND                               | ND                           | 4647.63                                 |
| MW-28                     | 11/16/16    | 4652.64                                   | 7.23                          | 5.56                             | ND                               | ND                           | 4647.08                                 |
| MW-28                     | 02/10/17    | 4652.64                                   | 7.23                          | 5.89                             | ND                               | ND                           | 4646.75                                 |
| MW-28                     | 05/23/17    | 4652.64                                   | 7.23                          | 4.24                             | ND                               | ND                           | 4648.40                                 |
| MW-28                     | 08/29/17    | 4652.64                                   | 7.34                          | 5.02                             | ND                               | ND                           | 4647.62                                 |
| MW-28                     | 11/27/17    | 4652.64                                   | 7.36                          | 5.43                             | ND                               | ND                           | 4647.21                                 |
| MW-28                     | 02/15/18    | 4652.64                                   | 7.33                          | 5.83                             | ND                               | ND                           | 4646.81                                 |
| MW-28                     | 05/31/18    | 4652.64                                   | 7.36                          | 4.94                             | ND                               | ND                           | 4647.70                                 |
| MW-28                     | 08/30/18    | 4652.64                                   | 7.48                          | 5.16                             | ND                               | ND                           | 4647.48                                 |
| MW-28                     | 11/27/18    | 4652.64                                   | 7.34                          | 5.64                             | ND                               | ND                           | 4647.00                                 |
| MW-28                     | 02/13/19    | 4652.64                                   | 7.33                          | 5.90                             | ND                               | ND                           | 4646.74                                 |
| MW-29                     | 06/25/15    | 4653.98                                   | 7.30                          | 4.74                             | ND                               | ND                           | 4649.24                                 |
| MW-29                     | 07/30/15    | 4653.98                                   | NM                            | 6.28                             | ND                               | ND                           | 4647.70                                 |
| MW-29                     | 08/11/15    | 4653.98                                   | 7.30                          | 6.00                             | ND                               | ND                           | 4647.98                                 |
| MW-29                     | 11/30/15    | 4653.98                                   | 7.32                          | 6.84                             | ND                               | ND                           | 4647.14                                 |
| MW-29                     | 02/25/16    | 4653.98                                   | 7.32                          | 6.97                             | ND                               | ND                           | 4647.01                                 |
| MW-29                     | 05/19/16    | 4653.98                                   | 7.32                          | 5.81                             | ND                               | ND                           | 4648.17                                 |
| MW-29                     | 08/10/16    | 4653.98                                   | 7.32                          | 6.29                             | ND                               | ND                           | 4647.69                                 |
| MW-29                     | 11/16/16    | 4653.98                                   | 7.38                          | 6.78                             | ND                               | ND                           | 4647.20                                 |
| MW-29                     | 02/10/17    | 4653.98                                   | 7.38                          | 6.09                             | ND                               | ND                           | 4647.89                                 |
| MW-29                     | 05/23/17    | 4653.98                                   | 7.43                          | 5.51                             | ND                               | ND                           | 4648.47                                 |
| MW-29                     | 08/29/17    | 4653.98                                   | 7.30                          | 6.30                             | ND                               | ND                           | 4647.68                                 |
| MW-29                     | 11/27/17    | 4653.98                                   | 7.34                          | 6.65                             | ND                               | ND                           | 4647.33                                 |
| MW-29                     | 02/15/18    | 4653.98                                   | 7.28                          | 7.10                             | ND                               | ND                           | 4646.88                                 |
| MW-29                     | 05/31/18    | 4653.98                                   | 7.32                          | 6.22                             | ND                               | ND                           | 4647.76                                 |
| MW-29                     | 08/30/18    | 4653.98                                   | 7.27                          | 6.39                             | ND                               | ND                           | 4647.59                                 |
| MW-29                     | 11/27/18    | 4653.98                                   | 7.30                          | 6.86                             | ND                               | ND                           | 4647.12                                 |
| MW-29                     | 02/13/19    | 4653.98                                   | 7.30                          | 7.08                             | ND                               | ND                           | 4646.90                                 |
| MW-30                     | 06/25/15    | 4652.81                                   | 7.34                          | 3.53                             | ND                               | ND                           | 4649.28                                 |
| MW-30                     | 07/30/15    | 4652.81                                   | NM                            | 5.00                             | ND                               | ND                           | 4647.81                                 |
| MW-30                     | 08/11/15    | 4652.81                                   | 7.34                          | 4.76                             | ND                               | ND                           | 4648.05                                 |

**TABLE 1**  
**GROUNDWATER ELEVATION DATA**  
**NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID | Date     | Top of Casing Elevation (ft. AMSL)                     | Total Depth (ft. BTOC) | Depth to Water (ft. BTOC) | Depth to LNAPL (ft. BTOC) | LNAPL Thickness (ft.) | Groundwater Elevation (ft. AMSL) |
|--------------------|----------|--|------------------------|---------------------------|---------------------------|-----------------------|----------------------------------|
| MW-30              | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                        |                           |                           |                       |                                  |
| MW-31              | 07/23/15 | 4651.4   | 7.40                   | 3.14                      | ND                        | ND                    | 4648.26                          |
| MW-31              | 07/30/15 | 4651.4   | NM                     | 3.75                      | ND                        | ND                    | 4647.65                          |
| MW-31              | 08/11/15 | 4651.4   | 7.40                   | 3.45                      | ND                        | ND                    | 4647.95                          |
| MW-31              | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                        |                           |                           |                       |                                  |
| MW-32              | 07/23/15 | 4651.28  | 7.54                   | 3.02                      | ND                        | ND                    | 4648.26                          |
| MW-32              | 07/30/15 | 4651.28  | NM                     | 3.64                      | ND                        | ND                    | 4647.64                          |
| MW-32              | 08/11/15 | 4651.28  | 7.54                   | 3.36                      | ND                        | ND                    | 4647.92                          |
| MW-32              | 11/30/15 | 4651.28  | 7.15                   | 4.40                      | ND                        | ND                    | 4646.88                          |
| MW-32              | 02/25/16 | 4651.28  | 7.15                   | 4.48                      | ND                        | ND                    | 4646.80                          |
| MW-32              | 05/19/16 | 4651.28  | 7.15                   | 3.23                      | ND                        | ND                    | 4648.05                          |
| MW-32              | 08/10/16 | 4651.28  | 7.15                   | 3.64                      | ND                        | ND                    | 4647.64                          |
| MW-32              | 11/16/16 | 4651.28  | 7.07                   | 4.38                      | ND                        | ND                    | 4646.90                          |
| MW-32              | 02/10/17 | 4651.28  | 7.07                   | 4.73                      | ND                        | ND                    | 4646.55                          |
| MW-32              | 05/23/17 | 4651.28  | 7.07                   | 2.94                      | Sheen                     | Sheen                 | 4648.34                          |
| MW-32              | 08/29/17 | 4651.28  | 7.09                   | 3.73                      | ND                        | ND                    | 4647.55                          |
| MW-32              | 11/27/17 | 4651.28  | 7.13                   | 4.18                      | ND                        | ND                    | 4647.10                          |
| MW-32              | 02/15/18 | 4651.28  | 7.11                   | 4.66                      | ND                        | ND                    | 4646.62                          |
| MW-32              | 05/31/18 | 4651.28  | 7.24                   | 3.71                      | ND                        | ND                    | 4647.57                          |
| MW-32              | 08/30/18 | 4651.28  | 7.38                   | 3.98                      | ND                        | ND                    | 4647.30                          |
| MW-32              | 11/27/18 | 4651.28  | 7.52                   | 4.49                      | ND                        | ND                    | 4646.79                          |
| MW-32              | 02/13/19 | 4651.28  | 7.45                   | 4.73                      | ND                        | ND                    | 4646.55                          |
| MW-33              | 07/23/15 | 4651.31  | 7.34                   | 3.14                      | ND                        | ND                    | 4648.17                          |
| MW-33              | 07/30/15 | 4651.31  | NM                     | 3.75                      | ND                        | ND                    | 4647.56                          |
| MW-33              | 08/11/15 | 4651.31  | 7.34                   | 3.45                      | ND                        | ND                    | 4647.86                          |
| MW-33              | 11/30/15 | 4651.31  | 6.80                   | 4.78                      | ND                        | ND                    | 4646.53                          |
| MW-33              | 02/25/16 | 4651.31  | 6.80                   | 4.82                      | ND                        | ND                    | 4646.49                          |
| MW-33              | 05/19/16 | 4651.31  | 6.80                   | 3.59                      | ND                        | ND                    | 4647.72                          |
| MW-33              | 08/10/16 | 4651.31  | 6.80                   | 4.04                      | ND                        | ND                    | 4647.27                          |
| MW-33              | 11/16/16 | 4651.31  | 6.83                   | 4.74                      | ND                        | ND                    | 4646.57                          |
| MW-33              | 02/10/17 | 4651.31  | 6.83                   | 5.08                      | ND                        | ND                    | 4646.23                          |
| MW-33              | 05/23/17 | 4651.31  | 6.83                   | 3.29                      | ND                        | ND                    | 4648.02                          |
| MW-33              | 08/29/17 | 4651.31  | 6.96                   | 4.13                      | ND                        | ND                    | 4647.18                          |
| MW-33              | 11/27/17 | 4651.31  | 7.02                   | 4.54                      | ND                        | ND                    | 4646.77                          |
| MW-33              | 02/15/18 | 4651.31  | 7.03                   | 4.99                      | ND                        | ND                    | 4646.32                          |
| MW-33              | 05/31/18 | 4651.31  | 7.25                   | 4.04                      | ND                        | ND                    | 4647.27                          |
| MW-33              | 08/30/18 | 4651.31  | 7.22                   | 4.33                      | ND                        | ND                    | 4646.98                          |
| MW-33              | 11/27/18 | 4651.31  | 7.26                   | 4.83                      | ND                        | ND                    | 4646.48                          |
| MW-33              | 02/13/19 | 4651.31  | 7.28                   | 5.07                      | ND                        | ND                    | 4646.24                          |
| MW-34              | 07/23/15 | 4651.48  | 7.41                   | 3.11                      | ND                        | ND                    | 4648.37                          |
| MW-34              | 07/30/15 | 4651.48  | NM                     | 3.55                      | ND                        | ND                    | 4647.93                          |
| MW-34              | 08/11/15 | 4651.48  | 7.41                   | 3.42                      | ND                        | ND                    | 4648.06                          |
| MW-34              | 11/30/15 | 4651.48  | 7.00                   | 4.35                      | ND                        | ND                    | 4647.13                          |
| MW-34              | 02/25/16 | 4651.48  | 7.00                   | 4.54                      | ND                        | ND                    | 4646.94                          |
| MW-34              | 05/19/16 | 4651.48  | 7.00                   | 3.36                      | ND                        | ND                    | 4648.12                          |
| MW-34              | 08/10/16 | 4651.48  | 7.00                   | 3.69                      | ND                        | ND                    | 4647.79                          |
| MW-34              | 11/16/16 | 4651.48  | 6.80                   | 4.42                      | ND                        | ND                    | 4647.06                          |
| MW-34              | 02/10/17 | 4651.48  | 6.80                   | 4.80                      | ND                        | ND                    | 4646.68                          |
| MW-34              | 05/23/17 | 4651.48  | 6.80                   | 3.06                      | ND                        | ND                    | 4648.42                          |
| MW-34              | 08/29/17 | 4651.48  | 6.85                   | 3.81                      | ND                        | ND                    | 4647.67                          |

**TABLE 1  
GROUNDWATER ELEVATION DATA  
NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| <b>Monitoring Well ID</b> | <b>Date</b> | <b>Top of Casing Elevation (ft. AMSL)</b> | <b>Total Depth (ft. BTOC)</b>                          | <b>Depth to Water (ft. BTOC)</b> | <b>Depth to LNAPL (ft. BTOC)</b> | <b>LNAPL Thickness (ft.)</b> | <b>Groundwater Elevation (ft. AMSL)</b> |  |
|---------------------------|-------------|---|--|----------------------------------|----------------------------------|------------------------------|---|--|
| MW-34                     | 11/27/17    | 4651.48                                   | 6.86   | 4.28                             | ND                               | ND                           | 4647.20                                 |  |
| MW-34                     | 02/15/18    | 4651.48                                   | 6.89   | 4.78                             | ND                               | ND                           | 4646.70                                 |  |
| MW-34                     | 05/31/18    | 4651.48                                   | 7.00   | 3.80                             | ND                               | ND                           | 4647.68                                 |  |
| MW-34                     | 08/30/18    | 4651.48                                   | 6.98   | 4.10                             | ND                               | ND                           | 4647.38                                 |  |
| MW-34                     | 11/27/18    | 4651.48                                   | 7.04   | 4.64                             | ND                               | ND                           | 4646.84                                 |  |
| MW-34                     | 02/13/19    | 4651.48                                   | 7.21   | 4.90                             | ND                               | ND                           | 4646.58                                 |  |
| MW-35                     | 07/23/15    | 4651.62                                   | 7.77   | 3.23                             | ND                               | ND                           | 4648.39                                 |  |
| MW-35                     | 07/30/15    | 4651.62                                   | NM   | 3.75                             | ND                               | ND                           | 4647.87                                 |  |
| MW-35                     | 08/11/15    | 4651.62                                   | 7.77   | 3.55                             | ND                               | ND                           | 4648.07                                 |  |
| MW-35                     | 11/30/15    |   | Well Removed From Monitoring Well Network <sup>1</sup> |                                  |                                  |                              |   |  |
| MW-36                     | 07/23/15    | 4651.85                                   | 7.43   | 3.39                             | ND                               | ND                           | 4648.46                                 |  |
| MW-36                     | 07/30/15    | 4651.85                                   | NM   | 3.89                             | ND                               | ND                           | 4647.96                                 |  |
| MW-36                     | 08/11/15    | 4651.85                                   | 7.43   | 3.70                             | ND                               | ND                           | 4648.15                                 |  |
| MW-36                     | 11/30/15    |   | Well Removed From Monitoring Well Network <sup>1</sup> |                                  |                                  |                              |   |  |
| MW-37                     | 07/23/15    | 4651.73                                   | 7.47   | 3.20                             | ND                               | ND                           | 4648.53                                 |  |
| MW-37                     | 07/30/15    | 4651.73                                   | NM   | 3.68                             | ND                               | ND                           | 4648.05                                 |  |
| MW-37                     | 08/11/15    | 4651.73                                   | 7.47   | 3.52                             | ND                               | ND                           | 4648.21                                 |  |
| MW-37                     | 11/30/15    | 4651.73                                   | 7.38   | 4.41                             | ND                               | ND                           | 4647.32                                 |  |
| MW-37                     | 02/25/16    | 4651.73                                   | 7.38   | 4.62                             | ND                               | ND                           | 4647.11                                 |  |
| MW-37                     | 05/19/16    | 4651.73                                   | 7.38   | 3.45                             | ND                               | ND                           | 4648.28                                 |  |
| MW-37                     | 08/10/16    | 4651.73                                   | 7.38   | 3.74                             | ND                               | ND                           | 4647.99                                 |  |
| MW-37                     | 11/16/16    | 4651.73                                   | 7.43   | 4.47                             | ND                               | ND                           | 4647.26                                 |  |
| MW-37                     | 02/10/17    | 4651.73                                   | 7.43   | 4.85                             | ND                               | ND                           | 4646.88                                 |  |
| MW-37                     | 05/23/17    | 4651.73                                   | 7.43   | 3.13                             | ND                               | ND                           | 4648.60                                 |  |
| MW-37                     | 08/29/17    | 4651.73                                   | 7.41   | 3.82                             | ND                               | ND                           | 4647.91                                 |  |
| MW-37                     | 11/27/17    | 4651.73                                   | 7.35   | 4.30                             | ND                               | ND                           | 4647.43                                 |  |
| MW-37                     | 02/15/18    | 4651.73                                   | 7.40   | 4.80                             | ND                               | ND                           | 4646.93                                 |  |
| MW-37                     | 05/31/18    | 4651.73                                   | 7.45   | 3.83                             | ND                               | ND                           | 4647.90                                 |  |
| MW-37                     | 08/30/18    | 4651.73                                   | 7.44   | 4.01                             | ND                               | ND                           | 4647.72                                 |  |
| MW-37                     | 11/27/18    | 4651.73                                   | 7.47   | 4.59                             | ND                               | ND                           | 4647.14                                 |  |
| MW-37                     | 02/13/19    | 4651.73                                   | 7.44   | 4.85                             | ND                               | ND                           | 4646.88                                 |  |
| MW-38                     | 07/23/15    | 4652.13                                   | 7.37   | 3.54                             | ND                               | ND                           | 4648.59                                 |  |
| MW-38                     | 07/30/15    | 4652.13                                   | NM   | 4.00                             | ND                               | ND                           | 4648.13                                 |  |
| MW-38                     | 08/11/15    | 4652.13                                   | 7.37   | 3.85                             | ND                               | ND                           | 4648.28                                 |  |
| MW-38                     | 11/30/15    |   | Well Removed From Monitoring Well Network <sup>1</sup> |                                  |                                  |                              |   |  |
| MW-39                     | 07/23/15    | 4652.34                                   | 7.29   | 3.70                             | ND                               | ND                           | 4648.64                                 |  |
| MW-39                     | 07/30/15    | 4652.34                                   | NM   | 3.13                             | ND                               | ND                           | 4649.21                                 |  |
| MW-39                     | 08/11/15    | 4652.34                                   | 7.29   | 3.98                             | ND                               | ND                           | 4648.36                                 |  |
| MW-39                     | 11/30/15    | 4652.34                                   | 6.80   | 4.80                             | ND                               | ND                           | 4647.54                                 |  |
| MW-39                     | 02/25/16    | 4652.34                                   | 6.80   | 4.98                             | ND                               | ND                           | 4647.36                                 |  |
| MW-39                     | 05/19/16    | 4652.34                                   | 6.80   | 3.87                             | ND                               | ND                           | 4648.47                                 |  |
| MW-39                     | 08/10/16    | 4652.34                                   | 6.80   | 4.15                             | ND                               | ND                           | 4648.19                                 |  |
| MW-39                     | 11/16/16    | 4652.34                                   | 6.79   | 4.81                             | ND                               | ND                           | 4647.53                                 |  |
| MW-39                     | 02/10/17    | 4652.34                                   | 6.79   | 5.17                             | ND                               | ND                           | 4647.17                                 |  |
| MW-39                     | 05/23/17    | 4652.34                                   | 6.79   | 3.53                             | ND                               | ND                           | 4648.81                                 |  |
| MW-39                     | 08/29/17    | 4652.34                                   | 6.80   | 4.18                             | ND                               | ND                           | 4648.16                                 |  |
| MW-39                     | 11/27/17    | 4652.34                                   | 6.88   | 4.65                             | ND                               | ND                           | 4647.69                                 |  |
| MW-39                     | 02/15/18    | 4652.34                                   | 7.17   | 5.14                             | ND                               | ND                           | 4647.20                                 |  |
| MW-39                     | 05/31/18    | 4652.34                                   | 7.30   | 4.19                             | ND                               | ND                           | 4648.15                                 |  |
| MW-39                     | 08/30/18    | 4652.34                                   | 7.41   | 4.41                             | ND                               | ND                           | 4647.93                                 |  |

**TABLE 1  
GROUNDWATER ELEVATION DATA  
NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| <b>Monitoring Well ID</b> | <b>Date</b> | <b>Top of Casing Elevation (ft. AMSL)</b> | <b>Total Depth (ft. BTOC)</b> | <b>Depth to Water (ft. BTOC)</b> | <b>Depth to LNAPL (ft. BTOC)</b> | <b>LNAPL Thickness (ft.)</b> | <b>Groundwater Elevation (ft. AMSL)</b> |
|---------------------------|-------------|---|-------------------------------|----------------------------------|----------------------------------|------------------------------|---|
| MW-39                     | 11/27/18    | 4652.34                                   | 7.28                          | 4.90                             | ND                               | ND                           | 4647.44                                 |
| MW-39                     | 02/13/19    | 4652.34                                   | 7.28                          | 5.17                             | ND                               | ND                           | 4647.17                                 |
| MW-40                     | 07/23/15    | 4652.57                                   | 7.67                          | 3.93                             | ND                               | ND                           | 4648.64                                 |
| MW-40                     | 07/30/15    | 4652.57                                   | NM                            | 4.37                             | ND                               | ND                           | 4648.20                                 |
| MW-40                     | 08/11/15    | 4652.57                                   | 7.67                          | 4.22                             | ND                               | ND                           | 4648.35                                 |
| MW-40                     | 11/30/15    | 4652.57                                   | 7.36                          | 5.00                             | ND                               | ND                           | 4647.57                                 |
| MW-40                     | 02/25/16    | 4652.57                                   | 7.36                          | 5.19                             | ND                               | ND                           | 4647.38                                 |
| MW-40                     | 05/19/16    | 4652.57                                   | 7.36                          | 4.13                             | ND                               | ND                           | 4648.44                                 |
| MW-40                     | 08/10/16    | 4652.57                                   | 7.36                          | 4.42                             | ND                               | ND                           | 4648.15                                 |
| MW-40                     | 11/16/16    | 4652.57                                   | 7.31                          | 5.00                             | ND                               | ND                           | 4647.57                                 |
| MW-40                     | 02/10/17    | 4652.57                                   | 7.31                          | 5.39                             | ND                               | ND                           | 4647.18                                 |
| MW-40                     | 05/23/17    | 4652.57                                   | 7.31                          | 3.78                             | ND                               | ND                           | 4648.79                                 |
| MW-40                     | 08/29/17    | 4652.57                                   | 7.39                          | 4.41                             | ND                               | ND                           | 4648.16                                 |
| MW-40                     | 11/27/17    | 4652.57                                   | 7.35                          | 4.86                             | ND                               | ND                           | 4647.71                                 |
| MW-40                     | 02/15/18    | 4652.57                                   | 7.33                          | 5.36                             | ND                               | ND                           | 4647.21                                 |
| MW-40                     | 05/31/18    | 4652.57                                   | 7.68                          | 4.51                             | ND                               | ND                           | 4648.06                                 |
| MW-40                     | 08/30/18    | 4652.57                                   | 7.71                          | 4.62                             | ND                               | ND                           | 4647.95                                 |
| MW-40                     | 11/27/18    | 4652.57                                   |                               | Not Measured - Well Inaccessible |                                  |                              |   |
| MW-40                     | 02/13/19    | 4652.57                                   |                               | Not Measured - Well Inaccessible |                                  |                              |   |
| MW-41                     | 07/23/15    | 4656.67                                   | 11.36                         | 8.18                             | ND                               | ND                           | 4648.49                                 |
| MW-41                     | 07/30/15    | 4656.67                                   | NM                            | 8.70                             | ND                               | ND                           | 4647.97                                 |
| MW-41                     | 08/11/15    | 4656.67                                   | 11.36                         | 8.52                             | ND                               | ND                           | 4648.15                                 |
| MW-41                     | 11/30/15    | 4656.67                                   | 11.30                         | 9.26                             | ND                               | ND                           | 4647.41                                 |
| MW-41                     | 02/25/16    | 4656.67                                   | 11.30                         | 9.41                             | ND                               | ND                           | 4647.26                                 |
| MW-41                     | 05/19/16    | 4656.67                                   | 11.30                         | 3.32                             | ND                               | ND                           | 4653.35                                 |
| MW-41                     | 08/10/16    | 4656.67                                   | 11.30                         | 8.74                             | ND                               | ND                           | 4647.93                                 |
| MW-41                     | 11/16/16    | 4656.67                                   | 11.27                         | 9.21                             | ND                               | ND                           | 4647.46                                 |
| MW-41                     | 02/10/17    | 4656.67                                   | 11.27                         | 9.54                             | ND                               | ND                           | 4647.13                                 |
| MW-41                     | 05/23/17    | 4656.67                                   | 11.27                         | 8.03                             | ND                               | ND                           | 4648.64                                 |
| MW-41                     | 08/29/17    | 4656.67                                   | 11.27                         | 8.66                             | ND                               | ND                           | 4648.01                                 |
| MW-41                     | 11/27/17    | 4656.67                                   | 11.32                         | 9.06                             | ND                               | ND                           | 4647.61                                 |
| MW-41                     | 02/15/18    | 4656.67                                   | 11.30                         | 9.48                             | ND                               | ND                           | 4647.19                                 |
| MW-41                     | 05/31/18    | 4656.67                                   | 11.40                         | 8.83                             | ND                               | ND                           | 4647.84                                 |
| MW-41                     | 08/30/18    | 4656.67                                   | 11.34                         | 8.78                             | ND                               | ND                           | 4647.89                                 |
| MW-41                     | 11/27/18    | 4656.67                                   |                               | Not Measured - Well Inaccessible |                                  |                              |   |
| MW-41                     | 02/13/19    | 4656.67                                   | 11.35                         | 9.52                             | ND                               | ND                           | 4647.15                                 |
| MW-42                     | 07/30/15    | 4652.35                                   | 9.29                          | 4.61                             | ND                               | ND                           | 4647.74                                 |
| MW-42                     | 08/11/15    | 4652.35                                   | 9.42                          | 4.37                             | ND                               | ND                           | 4647.98                                 |
| MW-42                     | 11/30/15    | 4652.35                                   | 9.02                          | 5.11                             | ND                               | ND                           | 4647.24                                 |
| MW-42                     | 02/25/16    | 4652.35                                   | 9.02                          | 5.21                             | ND                               | ND                           | 4647.14                                 |
| MW-42                     | 05/19/16    | 4652.35                                   | 9.02                          | 4.15                             | ND                               | ND                           | 4648.20                                 |
| MW-42                     | 08/10/16    | 4652.35                                   | 9.02                          | 4.65                             | ND                               | ND                           | 4647.70                                 |
| MW-42                     | 11/15/16    | 4652.35                                   | 9.03                          | 5.05                             | ND                               | ND                           | 4647.30                                 |
| MW-42                     | 02/10/17    | 4652.35                                   | 9.03                          | 5.36                             | ND                               | ND                           | 4646.99                                 |
| MW-42                     | 05/23/17    | 4652.35                                   | 9.03                          | 3.85                             | ND                               | ND                           | 4648.50                                 |
| MW-42                     | 08/29/17    | 4652.35                                   | 9.07                          | 4.61                             | ND                               | ND                           | 4647.74                                 |
| MW-42                     | 11/27/17    | 4652.35                                   | 9.21                          | 4.91                             | ND                               | ND                           | 4647.44                                 |
| MW-42                     | 02/15/18    | 4652.35                                   | 9.26                          | 5.30                             | ND                               | ND                           | 4647.05                                 |
| MW-42                     | 05/31/18    | 4652.35                                   | 9.24                          | 4.50                             | ND                               | ND                           | 4647.85                                 |
| MW-42                     | 08/30/18    | 4652.35                                   | 9.21                          | 4.68                             | ND                               | ND                           | 4647.67                                 |

**TABLE 1**  
**GROUNDWATER ELEVATION DATA**  
**NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID | Date     | Top of Casing Elevation (ft. AMSL) | Total Depth (ft. BTOC) | Depth to Water (ft. BTOC) | Depth to LNAPL (ft. BTOC) | LNAPL Thickness (ft.) | Groundwater Elevation (ft. AMSL) |
|--------------------|----------|------------------------------------|------------------------|---------------------------|---------------------------|-----------------------|----------------------------------|
| MW-42              | 11/27/18 | 4652.35                            | 9.23                   | 5.11                      | ND                        | ND                    | 4647.24                          |
| MW-42              | 02/13/19 | 4652.35                            | 9.51                   | 5.34                      | ND                        | ND                    | 4647.01                          |
| MW-43              | 07/30/15 | 4653.60                            | 9.80                   | 5.90                      | ND                        | ND                    | 4647.70                          |
| MW-43              | 08/11/15 | 4653.60                            | 9.78                   | 5.65                      | ND                        | ND                    | 4647.95                          |
| MW-43              | 11/30/15 | 4653.60                            | 11.76                  | 8.52                      | ND                        | ND                    | 4645.08                          |
| MW-43              | 02/25/16 | 4653.60                            | 11.76                  | 8.61                      | ND                        | ND                    | 4644.99                          |
| MW-43              | 05/19/16 | 4653.60                            | 11.76                  | 7.60                      | ND                        | ND                    | 4646.00                          |
| MW-43              | 08/10/16 | 4653.60                            | 11.76                  | 8.08                      | ND                        | ND                    | 4645.52                          |
| MW-43              | 11/16/16 | 4653.60                            | 11.70                  | 8.59                      | ND                        | ND                    | 4645.01                          |
| MW-43              | 02/10/17 | 4653.60                            | 11.70                  | 8.91                      | ND                        | ND                    | 4644.69                          |
| MW-43              | 05/23/17 | 4653.60                            | 11.70                  | 7.30                      | ND                        | ND                    | 4646.30                          |
| MW-43              | 08/29/17 | 4653.60                            | 11.74                  | 8.09                      | ND                        | ND                    | 4645.51                          |
| MW-43              | 11/27/17 | 4653.60                            | 11.73                  | 8.44                      | ND                        | ND                    | 4645.16                          |
| MW-43              | 02/15/18 | 4653.60                            | 11.70                  | 8.84                      | ND                        | ND                    | 4644.76                          |
| MW-43              | 05/31/18 | 4654.49                            | 11.78                  | 7.96                      | ND                        | ND                    | 4646.53                          |
| MW-43              | 08/30/18 | 4654.49                            | 11.71                  | 8.21                      | ND                        | ND                    | 4646.28                          |
| MW-43              | 11/27/18 | 4654.49                            | 11.74                  | 8.65                      | ND                        | ND                    | 4645.84                          |
| MW-43              | 02/13/19 | 4654.49                            | 11.79                  | 8.90                      | ND                        | ND                    | 4645.59                          |
| MW-44              | 07/30/15 | 4653.97                            | 9.92                   | 6.31                      | ND                        | ND                    | 4647.66                          |
| MW-44              | 08/11/15 | 4653.97                            | 9.84                   | 6.07                      | ND                        | ND                    | 4647.90                          |
| MW-44              | 11/30/15 | 4653.97                            | 10.93                  | 8.16                      | ND                        | ND                    | 4645.81                          |
| MW-44              | 02/25/16 | 4653.97                            | 10.93                  | 8.25                      | ND                        | ND                    | 4645.72                          |
| MW-44              | 05/19/16 | 4653.97                            | 10.93                  | 7.10                      | ND                        | ND                    | 4646.87                          |
| MW-44              | 08/10/16 | 4653.97                            | 10.93                  | 7.60                      | ND                        | ND                    | 4646.37                          |
| MW-44              | 11/16/16 | 4653.97                            | 10.95                  | 8.12                      | ND                        | ND                    | 4645.85                          |
| MW-44              | 02/10/17 | 4653.97                            | 10.95                  | 8.44                      | ND                        | ND                    | 4645.53                          |
| MW-44              | 05/23/17 | 4653.97                            | 10.95                  | 6.81                      | ND                        | ND                    | 4647.16                          |
| MW-44              | 08/29/17 | 4653.97                            | 11.02                  | 7.65                      | ND                        | ND                    | 4646.32                          |
| MW-44              | 11/27/17 | 4653.97                            | 11.00                  | 7.97                      | ND                        | ND                    | 4646.00                          |
| MW-44              | 02/15/18 | 4653.97                            | 11.04                  | 8.38                      | ND                        | ND                    | 4645.59                          |
| MW-44              | 05/31/18 | 4653.97                            | 11.06                  | 7.51                      | ND                        | ND                    | 4646.46                          |
| MW-44              | 08/30/18 | 4653.97                            | 11.03                  | 7.75                      | ND                        | ND                    | 4646.22                          |
| MW-44              | 11/27/18 | 4653.97                            | 11.04                  | 8.20                      | ND                        | ND                    | 4645.77                          |
| MW-44              | 02/13/19 | 4653.97                            | 11.10                  | 8.44                      | ND                        | ND                    | 4645.53                          |
| MW-45              | 07/30/15 | 4653.09                            | 9.97                   | 5.50                      | ND                        | ND                    | 4647.59                          |
| MW-45              | 08/11/15 | 4653.09                            | 9.94                   | 5.30                      | ND                        | ND                    | 4647.79                          |
| MW-45              | 11/30/15 | 4653.09                            | 10.82                  | 8.43                      | ND                        | ND                    | 4644.66                          |
| MW-45              | 02/25/16 | 4653.09                            | 10.82                  | 7.50                      | ND                        | ND                    | 4645.59                          |
| MW-45              | 05/19/16 | 4653.09                            | 10.82                  | 6.31                      | ND                        | ND                    | 4646.78                          |
| MW-45              | 08/10/16 | 4653.09                            | 10.82                  | 6.81                      | ND                        | ND                    | 4646.28                          |
| MW-45              | 11/16/16 | 4653.09                            | 10.79                  | 7.41                      | ND                        | ND                    | 4645.68                          |
| MW-45              | 02/10/17 | 4653.09                            | 10.79                  | 7.73                      | ND                        | ND                    | 4645.36                          |
| MW-45              | 05/23/17 | 4653.09                            | 10.79                  | 6.03                      | ND                        | ND                    | 4647.06                          |
| MW-45              | 08/29/17 | 4653.09                            | 10.80                  | 6.89                      | ND                        | ND                    | 4646.20                          |
| MW-45              | 11/27/17 | 4653.09                            | 10.77                  | 7.23                      | ND                        | ND                    | 4645.86                          |
| MW-45              | 02/15/18 | 4653.09                            | 10.82                  | 7.65                      | ND                        | ND                    | 4645.44                          |
| MW-45              | 05/31/18 | 4653.09                            | 10.89                  | 6.77                      | ND                        | ND                    | 4646.32                          |
| MW-45              | 08/30/18 | 4653.09                            | 10.84                  | 7.03                      | ND                        | ND                    | 4646.06                          |
| MW-45              | 11/27/18 | 4653.09                            | 10.86                  | 7.49                      | ND                        | ND                    | 4645.60                          |
| MW-45              | 02/13/19 | 4653.09                            | 11.01                  | 7.71                      | ND                        | ND                    | 4645.38                          |

**TABLE 1**  
**GROUNDWATER ELEVATION DATA**  
**NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID | Date     | Top of Casing Elevation (ft. AMSL) | Total Depth (ft. BTOC) | Depth to Water (ft. BTOC) | Depth to LNAPL (ft. BTOC) | LNAPL Thickness (ft.) | Groundwater Elevation (ft. AMSL) |
|--------------------|----------|------------------------------------|------------------------|---------------------------|---------------------------|-----------------------|----------------------------------|
| MW-46              | 11/30/15 | 4652.79                            | 15.06                  | 7.06                      | ND                        | ND                    | 4645.73                          |
| MW-46              | 02/25/16 | 4652.79                            | 15.06                  | 7.13                      | ND                        | ND                    | 4645.66                          |
| MW-46              | 05/19/16 | 4652.79                            | 15.06                  | 5.99                      | ND                        | ND                    | 4646.80                          |
| MW-46              | 08/10/16 | 4652.79                            | 15.06                  | 6.53                      | ND                        | ND                    | 4646.26                          |
| MW-46              | 11/16/16 | 4652.79                            | 14.41                  | 7.01                      | ND                        | ND                    | 4645.78                          |
| MW-46              | 02/10/17 | 4652.79                            | 14.41                  | 7.32                      | ND                        | ND                    | 4645.47                          |
| MW-46              | 05/23/17 | 4652.79                            | 14.41                  | 5.69                      | ND                        | ND                    | 4647.10                          |
| MW-46              | 08/29/17 | 4652.79                            | 14.50                  | 6.55                      | ND                        | ND                    | 4646.24                          |
| MW-46              | 11/27/17 | 4652.79                            | 11.13                  | 6.89                      | ND                        | ND                    | 4645.90                          |
| MW-46              | 02/15/18 | 4652.79                            | 14.45                  | 7.26                      | ND                        | ND                    | 4645.53                          |
| MW-46              | 05/31/18 | 4652.79                            | 14.73                  | 6.45                      | ND                        | ND                    | 4646.34                          |
| MW-46              | 08/30/18 | 4652.79                            | 14.65                  | 6.64                      | ND                        | ND                    | 4646.15                          |
| MW-46              | 11/27/18 | 4652.79                            | 14.68                  | 7.07                      | ND                        | ND                    | 4645.72                          |
| MW-46              | 02/13/19 | 4652.79                            | 14.89                  | 7.31                      | ND                        | ND                    | 4645.48                          |
| MW-47              | 11/30/15 | 4652.39                            | 13.76                  | 6.75                      | ND                        | ND                    | 4645.64                          |
| MW-47              | 02/25/16 | 4652.39                            | 13.76                  | 6.83                      | ND                        | ND                    | 4645.56                          |
| MW-47              | 05/19/16 | 4652.39                            | 13.76                  | 6.67                      | ND                        | ND                    | 4645.72                          |
| MW-47              | 08/10/16 | 4652.39                            | 13.76                  | 6.22                      | ND                        | ND                    | 4646.17                          |
| MW-47              | 11/16/16 | 4652.39                            | 13.29                  | 6.73                      | ND                        | ND                    | 4645.66                          |
| MW-47              | 02/10/17 | 4652.39                            | 13.29                  | 7.07                      | ND                        | ND                    | 4645.32                          |
| MW-47              | 05/23/17 | 4652.39                            | 13.29                  | 5.39                      | ND                        | ND                    | 4647.00                          |
| MW-47              | 08/29/17 | 4652.39                            | 13.60                  | 6.24                      | ND                        | ND                    | 4646.15                          |
| MW-47              | 11/27/17 | 4652.39                            | 13.41                  | 6.51                      | ND                        | ND                    | 4645.88                          |
| MW-47              | 02/15/18 | 4652.39                            | 13.54                  | 6.96                      | ND                        | ND                    | 4645.43                          |
| MW-47              | 05/31/18 | 4652.39                            | 13.59                  | 6.11                      | ND                        | ND                    | 4646.28                          |
| MW-47              | 08/30/18 | 4652.39                            | 13.59                  | 6.34                      | ND                        | ND                    | 4646.05                          |
| MW-47              | 11/27/18 | 4652.39                            | 13.62                  | 6.79                      | ND                        | ND                    | 4645.60                          |
| MW-47              | 02/13/19 | 4652.39                            | 13.74                  | 7.02                      | ND                        | ND                    | 4645.37                          |

**Notes**

ft. = Feet

AMSL = Above mean sea level

BTOC = Below top of casing

LNAPL = Light non-aqueous phase liquid

ND = No LNAPL detected

NM = Not Measured

TRACE = Trace amount of LNAPL detected

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

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

LNAPL relative density is 0.75

<sup>1</sup> As allowed by Form 27 Conditions of Approval (Document # 200437738)

<sup>2</sup> LNAPL was not detected by interface probe, but was found in a bailer; true thickness unknown

<sup>3</sup> Obstruction in well at approximately 4.8 ft. below top of casing; unable to measure water level

<sup>4</sup> Well blocked by equipment; unable to measure water level

<sup>5</sup> Total depth was not measured due to ice blocking the interface probe

**TABLE 2**  
**GROUNDWATER ANALYTICAL DATA**  
**NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID    | Date     | Benzene (µg/L) | Toluene (µg/L)                        | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|-----------------------|----------|----------------|---------------------------------------|---------------------|----------------------|
| <b>COGCC Standard</b> |          | <b>5</b>       | <b>560</b>                            | <b>700</b>          | <b>1,400</b>         |
| MW-01                 | 05/11/15 | <b>320</b>     | 250                                   | 20                  | 150                  |
| MW-01                 | 06/25/15 | <b>190</b>     | 140                                   | 10                  | 58                   |
| MW-01                 | 08/11/15 | <1.0           | <1.0                                  | <1.0                | <1.0                 |
| MW-01                 | 11/30/15 | <1.0           | <1.0                                  | <1.0                | <1.0                 |
| MW-01                 | 02/25/16 | <1.0           | <1.0                                  | <1.0                | <1.0                 |
| MW-01                 | 05/19/16 | <1.0           | <1.0                                  | <1.0                | <1.0                 |
| MW-01                 | 08/10/16 | <1.0           | <1.0                                  | <1.0                | <1.0                 |
| MW-01                 | 11/16/16 | <1.0           | <1.0                                  | <1.0                | <1.0                 |
| MW-01                 | 02/10/17 | <1.0           | <1.0                                  | <1.0                | <1.0                 |
| MW-01                 | 05/23/17 | <1.0           | <1.0                                  | <1.0                | <2.0                 |
| MW-01                 | 08/29/17 | <1.0           | <1.0                                  | <1.0                | <2.0                 |
| MW-01                 | 11/27/17 | <1.0           | <1.0                                  | <1.0                | <2.0                 |
| MW-01                 | 02/15/18 | <1.0           | <1.0                                  | <1.0                | <2.0                 |
| MW-01                 | 05/31/18 | <1.0           | <1.0                                  | <1.0                | <2.0                 |
| MW-01                 | 08/30/18 | <1.0           | <1.0                                  | <1.0                | <2.0                 |
| MW-01                 | 11/27/18 | <1.0           | <1.0                                  | <1.0                | <2.0                 |
| MW-01                 | 02/13/19 | <1.0           | <1.0                                  | <1.0                | <2.0                 |
| MW-02                 | 05/11/15 | <b>4,900</b>   | <b>11,000</b>                         | 520                 | <b>7,900</b>         |
| MW-02                 | 06/25/15 | <b>5,700</b>   | <b>14,000</b>                         | 290                 | <b>10,000</b>        |
| MW-02                 | 08/11/15 | 2.4            | 1.2                                   | <1.0                | 2.6                  |
| MW-02                 | 11/30/15 |                | Sample Not Collected - Dry            |                     |                      |
| MW-02                 | 02/25/16 |                | Sample Not Collected - Dry            |                     |                      |
| MW-02                 | 05/19/16 |                | Sample Not Collected - Dry            |                     |                      |
| MW-02                 | 08/10/16 |                | Sample Not Collected - Dry            |                     |                      |
| MW-02                 | 11/16/16 | NS             | NS                                    | NS                  | NS                   |
| MW-02 <sup>3</sup>    | 02/10/17 | NS             | NS                                    | NS                  | NS                   |
| MW-02 <sup>3</sup>    | 05/23/17 | NS             | NS                                    | NS                  | NS                   |
| MW-02 <sup>3</sup>    | 08/29/17 |                | Sample Not Collected - Well Destroyed |                     |                      |
| MW-02R                | 11/27/17 | <b>17</b>      | <1.0                                  | 59                  | <b>1,700</b>         |
| MW-02R                | 02/15/18 | <1.0           | <1.0                                  | <1.0                | 23                   |
| MW-02R                | 05/31/18 | <1.0           | <1.0                                  | <1.0                | <2.0                 |
| MW-02R                | 08/30/18 | <1.0           | <1.0                                  | <1.0                | <2.0                 |
| MW-02R                | 11/27/18 | <1.0           | <1.0                                  | <1.0                | <2.0                 |
| MW-02R                | 02/13/19 | <1.0           | <1.0                                  | <1.0                | <2.0                 |
| MW-03 <sup>2</sup>    | 05/11/15 | <b>4,500</b>   | <b>13,000</b>                         | <b>720</b>          | <b>11,000</b>        |
| MW-03                 | 06/25/15 |                | Sample Not Collected - LNAPL          |                     |                      |
| MW-03                 | 08/11/15 |                | Sample Not Collected - LNAPL          |                     |                      |
| MW-03                 | 11/30/15 |                | Sample Not Collected - LNAPL          |                     |                      |
| MW-03                 | 02/25/16 | <b>660</b>     | <b>580</b>                            | 58                  | 670                  |
| MW-03                 | 05/19/16 | <b>700</b>     | <b>1,600</b>                          | 74                  | <b>2,400</b>         |
| MW-03                 | 08/10/16 | 1.8            | 2.7                                   | <1.0                | 200                  |
| MW-03                 | 11/16/16 | 4.3            | <1.0                                  | 3.0                 | 31                   |
| MW-03 <sup>6</sup>    | 02/10/17 | <b>40</b>      | <1.0                                  | 1.9                 | 150                  |
| MW-03                 | 05/23/17 | <b>12</b>      | <1.0                                  | 15                  | 240                  |
| MW-03                 | 08/29/17 | <b>5.4</b>     | <1.0                                  | 2.1                 | 170                  |

**TABLE 2**  
**GROUNDWATER ANALYTICAL DATA**  
**NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID    | Date     | Benzene (µg/L)   | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|-----------------------|----------|--|----------------|---------------------|----------------------|
| <b>COGCC Standard</b> |          | <b>5</b>   | <b>560</b>     | <b>700</b>          | <b>1,400</b>         |
| MW-03                 | 11/27/17 | 4.4  | <1.0           | 3.3                 | 43                   |
| MW-03 <sup>6</sup>    | 02/15/18 | <b>12</b>  | <1.0           | 18                  | 140                  |
| MW-03                 | 05/31/18 | <1.0   | <1.0           | 1.9                 | 22                   |
| MW-03                 | 08/30/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-03                 | 11/27/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-03                 | 02/13/19 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-04                 | 05/11/15 | <b>Sample Not Collected - LNAPL</b>                    |                |                     |                      |
| MW-04                 | 06/25/15 | <b>Sample Not Collected - LNAPL</b>                    |                |                     |                      |
| MW-04                 | 08/11/15 | <b>Sample Not Collected - LNAPL</b>                    |                |                     |                      |
| MW-04                 | 11/30/15 | <b>3,700</b>   | <b>16,000</b>  | <b>1,700</b>        | <b>26,000</b>        |
| MW-04                 | 02/25/16 | <b>1,800</b>   | <b>3,900</b>   | 440                 | <b>6,100</b>         |
| MW-04                 | 05/19/16 | <b>1,500</b>   | <b>5,100</b>   | 200                 | <b>8,100</b>         |
| MW-04                 | 08/10/16 | <b>54</b>  | <b>2,400</b>   | 20                  | <b>3,900</b>         |
| MW-04                 | 11/16/16 | <1.0   | <1.0           | <1.0                | 2.5                  |
| MW-04                 | 02/10/17 | <b>12</b>  | <1.0           | 2.1                 | 10                   |
| MW-04 <sup>6</sup>    | 05/23/17 | 1.0  | <1.0           | 8.0                 | 100                  |
| MW-04                 | 08/29/17 | 1.0  | <1.0           | 11.0                | 320                  |
| MW-04                 | 11/27/17 | <1.0   | <1.0           | 1.1                 | 7.1                  |
| MW-04                 | 02/15/18 | <1.0   | <1.0           | <1.0                | 2.0                  |
| MW-04                 | 05/31/18 | <1.0   | <1.0           | <1.0                | 2.0                  |
| MW-04                 | 08/30/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-04                 | 11/27/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-04                 | 02/13/19 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-05                 | 05/11/15 | <b>1,400</b>   | <b>6,300</b>   | 200                 | <b>4,800</b>         |
| MW-05                 | 06/25/15 | <b>9.0</b>   | 5.1            | <1.0                | 10                   |
| MW-05                 | 08/11/15 | <b>150</b>   | 510            | 45                  | 700                  |
| MW-05                 | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                |                     |                      |
| MW-06                 | 05/11/15 | <b>1,100</b>   | <b>7,700</b>   | 690                 | <b>11,000</b>        |
| MW-06                 | 06/25/15 | <b>1,300</b>   | <b>3,500</b>   | 460                 | <b>7,700</b>         |
| MW-06                 | 08/11/15 | <b>1,400</b>   | <b>5,900</b>   | 360                 | <b>5,800</b>         |
| MW-06                 | 11/30/15 | <b>880</b>   | <b>3,500</b>   | 260                 | <b>3,800</b>         |
| MW-06                 | 02/25/16 | <b>25</b>  | 520            | 53                  | 750                  |
| MW-06                 | 05/19/16 | 4.6  | 94             | 170                 | <b>2,000</b>         |
| MW-06                 | 08/10/16 | <1.0   | 2.6            | <1.0                | 170                  |
| MW-06                 | 11/16/16 | <1.0   | <1.0           | 30                  | 340                  |
| MW-06                 | 02/10/17 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-06                 | 05/23/17 | <1.0   | <1.0           | <1.0                | 4.6                  |
| MW-06                 | 08/29/17 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-06                 | 11/27/17 | <1.0   | <1.0           | <1.0                | 2.5                  |
| MW-06                 | 02/15/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-06                 | 05/31/18 | <1.0   | <1.0           | <1.0                | 2.9                  |
| MW-06                 | 08/30/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-06                 | 11/27/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-06                 | 02/13/19 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-07                 | 05/11/15 | <b>920</b>   | <b>590</b>     | 49                  | 410                  |
| MW-07                 | 06/25/15 | <b>410</b>   | 29             | 23                  | 38                   |
| MW-07                 | 08/11/15 | <b>20</b>  | 2.3            | 2.1                 | 3.7                  |

**TABLE 2**  
**GROUNDWATER ANALYTICAL DATA**  
**NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID    | Date     | Benzene (µg/L)   | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|-----------------------|----------|--|----------------|---------------------|----------------------|
| <b>COGCC Standard</b> |          | <b>5</b>   | <b>560</b>     | <b>700</b>          | <b>1,400</b>         |
| MW-07                 | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                |                     |                      |
| MW-08                 | 05/11/15 | 150  | 35             | 7.6                 | 49                   |
| MW-08                 | 06/25/15 | 150  | 15             | 5.8                 | 41                   |
| MW-08                 | 08/11/15 | 17   | <1.0           | <1.0                | 1.6                  |
| MW-08                 | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                |                     |                      |
| MW-09                 | 05/11/15 | 100  | 41             | 4.4                 | 32                   |
| MW-09                 | 06/25/15 | 12   | 2.6            | <1.0                | 3.0                  |
| MW-09                 | 08/11/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-09                 | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                |                     |                      |
| MW-10                 | 05/11/15 | Sample Not Collected - LNAPL                           |                |                     |                      |
| MW-10                 | 06/25/15 | 5,000  | 17,000         | 700                 | 11,000               |
| MW-10                 | 08/11/15 | Sample Not Collected - LNAPL                           |                |                     |                      |
| MW-10                 | 08/11/15 | Sample Not Collected - LNAPL                           |                |                     |                      |
| MW-10                 | 11/30/15 | 750  | 4,900          | 280                 | 4,200                |
| MW-10                 | 02/25/16 | 120  | 420            | 140                 | 510                  |
| MW-10                 | 05/19/16 | 97   | 820            | 79                  | 2,800                |
| MW-10                 | 08/10/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-10                 | 11/16/16 | 12   | 200            | 90                  | 740                  |
| MW-10                 | 02/10/17 | 15   | 120            | 100                 | 2700                 |
| MW-10                 | 05/23/17 | <1.0   | 7.0            | 24                  | 220                  |
| MW-10                 | 08/29/17 | Not Sampled - Well Destroyed                           |                |                     |                      |
| MW-10R                | 11/27/17 | <1.0   | <1.0           | 24                  | 700                  |
| MW-10R                | 02/15/18 | <1.0   | <1.0           | 2.3                 | 99                   |
| MW-10R                | 05/31/18 | <1.0   | <1.0           | 1.8                 | 67                   |
| MW-10R                | 08/30/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-10R                | 11/27/18 | <1.0   | <1.0           | <1.0                | 24                   |
| MW-10R                | 02/13/19 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-11                 | 05/11/15 | 180  | 160            | 24                  | 250                  |
| MW-11                 | 06/25/15 | 44   | 6.9            | 1.5                 | 16                   |
| MW-11                 | 08/11/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-11                 | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                |                     |                      |
| MW-12                 | 05/11/15 | Sample Not Collected - LNAPL                           |                |                     |                      |
| MW-12                 | 06/25/15 | Sample Not Collected - LNAPL                           |                |                     |                      |
| MW-12                 | 08/11/15 | Sample Not Collected - LNAPL                           |                |                     |                      |
| MW-12                 | 11/30/15 | Sample Not Collected - LNAPL                           |                |                     |                      |
| MW-12                 | 02/25/16 | 3,900  | 5,800          | 320                 | 5,000                |
| MW-12                 | 05/19/16 | 3,800  | 5,700          | 170                 | 7,300                |
| MW-12                 | 08/10/16 | 2,600  | 2,700          | 220                 | 4,400                |
| MW-12                 | 11/16/16 | 1,300  | 2,700          | 190                 | 3,000                |
| MW-12                 | 02/10/17 | 1,700  | 3,000          | 180                 | 4,200                |
| MW-12                 | 05/23/17 | 190  | 1,400          | 190                 | 4,100                |
| MW-12                 | 08/29/17 | 26   | 4.0            | 100                 | 1,100                |
| MW-12                 | 11/27/17 | 8.6  | 4.8            | 170                 | 3,600                |

**TABLE 2  
GROUNDWATER ANALYTICAL DATA  
NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID    | Date     | Benzene (µg/L)   | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|-----------------------|----------|--|----------------|---------------------|----------------------|
| <b>COGCC Standard</b> |          | <b>5</b>   | <b>560</b>     | <b>700</b>          | <b>1,400</b>         |
| MW-12 <sup>6</sup>    | 02/15/18 | <1.0   | <1.0           | 25                  | 440                  |
| MW-12                 | 05/31/18 | <1.0   | <1.0           | 2.0                 | 29                   |
| MW-12                 | 08/30/18 | 1.4  | <1.0           | 1.2                 | 17                   |
| MW-12                 | 11/27/18 | 1.2  | <1.0           | <1.0                | <2.0                 |
| MW-12                 | 02/13/19 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-13                 | 05/11/15 | <b>670</b>   | <b>1,300</b>   | 160                 | <b>1,700</b>         |
| MW-13                 | 06/25/15 | <b>4,000</b>   | <b>14,000</b>  | 150                 | <b>12,000</b>        |
| MW-13                 | 08/11/15 | <b>5,300</b>   | <b>14,000</b>  | 570                 | <b>8,900</b>         |
| MW-13                 | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                |                     |                      |
| MW-14                 | 05/11/15 | <b>960</b>   | <b>2,300</b>   | 370                 | <b>3,400</b>         |
| MW-14                 | 06/25/15 | <b>3,200</b>   | <b>11,000</b>  | 160                 | <b>11,000</b>        |
| MW-14                 | 08/11/15 | <b>4,000</b>   | <b>13,000</b>  | 680                 | <b>12,000</b>        |
| MW-14                 | 11/30/15 | <b>2,300</b>   | <b>9,100</b>   | 470                 | <b>7,700</b>         |
| MW-14                 | 02/25/16 | Sample Not Collected - LNAPL                           |                |                     |                      |
| MW-14                 | 05/19/16 | <b>220</b>   | <1.0           | 100                 | 360                  |
| MW-14                 | 08/10/16 | <b>38</b>  | 44             | <1.0                | <b>3,800</b>         |
| MW-14                 | 11/16/16 | <b>52</b>  | 12             | 5.3                 | 660                  |
| MW-14 <sup>6</sup>    | 02/10/17 | <1.0   | <1.0           | <1.0                | 78                   |
| MW-14                 | 05/23/17 | 4.9  | <1.0           | 21                  | 380                  |
| MW-14                 | 08/29/17 | <1.0   | <1.0           | <1.0                | 130                  |
| MW-14                 | 11/27/17 | <1.0   | <1.0           | 2.5                 | 50                   |
| MW-14                 | 02/15/18 | <1.0   | <1.0           | 22                  | 180                  |
| MW-14                 | 05/31/18 | <1.0   | <1.0           | 1.5                 | 15                   |
| MW-14                 | 08/30/18 | <1.0   | <1.0           | 1.6                 | 6.2                  |
| MW-14                 | 11/27/18 | <1.0   | <1.0           | 1.0                 | 15                   |
| MW-14                 | 02/13/19 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-15                 | 05/11/15 | <b>120</b>   | 61             | 8.1                 | 66                   |
| MW-15                 | 06/25/15 | <b>1,700</b>   | <b>2,100</b>   | 140                 | <b>2,300</b>         |
| MW-15                 | 08/11/15 | <b>32</b>  | <1.0           | 4.0                 | <1.0                 |
| MW-15                 | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                |                     |                      |
| MW-16                 | 05/11/15 | <b>1,600</b>   | <b>3,900</b>   | 660                 | <b>5,200</b>         |
| MW-16                 | 06/25/15 | <b>2,100</b>   | <b>7,000</b>   | 650                 | <b>10,000</b>        |
| MW-16                 | 08/11/15 | <b>2,000</b>   | <b>8,100</b>   | 600                 | <b>8,300</b>         |
| MW-16                 | 11/30/15 | <b>910</b>   | <b>3,000</b>   | 290                 | <b>4,100</b>         |
| MW-16                 | 02/25/16 | <b>210</b>   | <b>910</b>     | 160                 | <b>2,100</b>         |
| MW-16                 | 05/19/16 | <b>1,700</b>   | 120            | 110                 | <b>5,200</b>         |
| MW-16                 | 08/10/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-16                 | 11/16/16 | <b>180</b>   | 4.8            | 160                 | 1,200                |
| MW-16 <sup>6</sup>    | 02/10/17 | <b>37</b>  | 2.4            | 67                  | <b>1,700</b>         |
| MW-16 <sup>6</sup>    | 05/23/17 | <1.0   | <1.0           | 2.1                 | 210                  |
| MW-16                 | 08/29/17 | <b>8.3</b>   | <1.0           | 16                  | 88                   |
| MW-16                 | 11/27/17 | <1.0   | <1.0           | 13                  | 110                  |
| MW-16 <sup>6</sup>    | 02/15/18 | <1.0   | <1.0           | 14                  | 140                  |
| MW-16                 | 05/31/18 | <1.0   | <1.0           | 12                  | 150                  |
| MW-16                 | 08/30/18 | <1.0   | <1.0           | <1.0                | 3.7                  |
| MW-16                 | 11/27/18 | <1.0   | <1.0           | 2.5                 | 17                   |
| MW-16                 | 02/13/19 | <1.0   | <1.0           | <1.0                | <2.0                 |

**TABLE 2  
GROUNDWATER ANALYTICAL DATA  
NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID    | Date     | Benzene (µg/L)   | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|-----------------------|----------|--|----------------|---------------------|----------------------|
| <b>COGCC Standard</b> |          | <b>5</b>   | <b>560</b>     | <b>700</b>          | <b>1,400</b>         |
| MW-17                 | 05/11/15 | <b>58</b>  | 7.3            | 7.3                 | 47                   |
| MW-17                 | 06/25/15 | <b>290</b>   | 68             | 27                  | 270                  |
| MW-17                 | 08/11/15 | <b>35</b>  | <1.0           | 4.8                 | 17                   |
| MW-17                 | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                |                     |                      |
| MW-18                 | 05/11/15 | <b>8.7</b>   | 9.4            | 2.1                 | 20                   |
| MW-18                 | 06/25/15 | <b>230</b>   | 13             | 35                  | 200                  |
| MW-18                 | 08/11/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-18                 | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                |                     |                      |
| MW-19                 | 05/11/15 | <b>18</b>  | 9.2            | 1.8                 | 12                   |
| MW-19                 | 06/25/15 | <b>470</b>   | <1.0           | 54                  | 200                  |
| MW-19                 | 08/11/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-19                 | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                |                     |                      |
| MW-20                 | 05/11/15 | <b>1,600</b>   | <b>1,900</b>   | 190                 | <b>2,400</b>         |
| MW-20                 | 06/25/15 | <b>3,800</b>   | <b>6,500</b>   | 500                 | <b>6,500</b>         |
| MW-20                 | 08/11/15 | <b>3,800</b>   | <b>7,000</b>   | <b>710</b>          | <b>10,000</b>        |
| MW-20                 | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                |                     |                      |
| MW-21                 | 06/25/15 | <b>Sample Not Collected - LNAPL</b>                    |                |                     |                      |
| MW-21                 | 08/11/15 | <b>3,300</b>   | <b>9,000</b>   | <b>1,100</b>        | <b>25,000</b>        |
| MW-21                 | 11/30/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-21                 | 02/25/16 | <b>190</b>   | <1.0           | 37                  | 430                  |
| MW-21                 | 05/19/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-21                 | 08/10/16 | <1.0   | <1.0           | <1.0                | 9.0                  |
| MW-21                 | 11/16/16 | <1.0   | <1.0           | 3.9                 | 31                   |
| MW-21                 | 02/10/17 | <1.0   | <1.0           | <1.0                | 350                  |
| MW-21 <sup>6</sup>    | 05/23/17 | <1.0   | <1.0           | <1.0                | 180                  |
| MW-21 <sup>6</sup>    | 08/29/17 | <1.0   | <1.0           | <1.0                | 66                   |
| MW-21                 | 11/27/17 | <1.0   | <1.0           | <1.0                | 6.5                  |
| MW-21 <sup>6</sup>    | 02/15/18 | 2.8  | <1.0           | 42                  | 600                  |
| MW-21                 | 05/31/18 | <1.0   | <1.0           | <1.0                | 8.2                  |
| MW-21                 | 08/30/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-21                 | 11/27/18 | <1.0   | <1.0           | <1.0                | 11                   |
| MW-21                 | 02/13/19 | <1.0   | <1.0           | <1.0                | 2.6                  |
| MW-22                 | 06/25/15 | <b>54</b>  | 1.2            | 2.6                 | <1.0                 |
| MW-22                 | 08/11/15 | 1.2  | 1.2            | <1.0                | <1.0                 |
| MW-22                 | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                |                     |                      |
| MW-23                 | 06/25/15 | <b>50</b>  | 5.4            | 1.3                 | 3.5                  |
| MW-23                 | 07/23/15 | NS   | NS             | NS                  | NS                   |
| MW-23                 | 07/30/15 | NS   | NS             | NS                  | NS                   |
| MW-23                 | 08/11/15 | <b>110</b>   | <1.0           | <1.0                | <1.0                 |
| MW-23                 | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                |                     |                      |
| MW-24                 | 06/25/15 | <b>370</b>   | 1.2            | 25                  | 160                  |
| MW-24                 | 08/11/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-24                 | 11/30/15 | <1.0   | <1.0           | <1.0                | <1.0                 |

**TABLE 2**  
**GROUNDWATER ANALYTICAL DATA**  
**NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID    | Date      | Benzene (µg/L)                      | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |  |
|-----------------------|-----------|-------------------------------------|----------------|---------------------|----------------------|--|
| <b>COGCC Standard</b> |           | <b>5</b>                            | <b>560</b>     | <b>700</b>          | <b>1,400</b>         |  |
| MW-24                 | 02/25/16  | <1.0                                | <1.0           | <1.0                | <1.0                 |  |
| MW-24                 | 05/19/16  | <1.0                                | <1.0           | <1.0                | <1.0                 |  |
| MW-24                 | 08/10/16  | <1.0                                | <1.0           | <1.0                | <1.0                 |  |
| MW-24                 | 11/16/16  | <1.0                                | <1.0           | <1.0                | <1.0                 |  |
| MW-24                 | 02/10/17  | <1.0                                | <1.0           | <1.0                | <1.0                 |  |
| MW-24                 | 05/23/17  | <1.0                                | <1.0           | <1.0                | <2.0                 |  |
| MW-24                 | 8/29/2017 | <1.0                                | <1.0           | <1.0                | <2.0                 |  |
| MW-24                 | 11/27/17  | <1.0                                | <1.0           | <1.0                | <2.0                 |  |
| MW-24                 | 02/15/18  | <1.0                                | <1.0           | <1.0                | <2.0                 |  |
| MW-24                 | 05/31/18  | <1.0                                | <1.0           | <1.0                | <2.0                 |  |
| MW-24                 | 08/30/18  | <1.0                                | <1.0           | <1.0                | <2.0                 |  |
| MW-24                 | 11/27/18  | <1.0                                | <1.0           | <1.0                | <2.0                 |  |
| MW-24                 | 02/13/19  | <1.0                                | <1.0           | <1.0                | <2.0                 |  |
| MW-25                 | 06/25/15  | <b>Sample Not Collected - LNAPL</b> |                |                     |                      |  |
| MW-25                 | 08/11/15  | <b>5,900</b>                        | <b>9,800</b>   | 610                 | <b>8,100</b>         |  |
| MW-25                 | 11/30/15  | <b>4,900</b>                        | <b>8,100</b>   | 380                 | <b>4,700</b>         |  |
| MW-25                 | 02/25/16  | <b>Sample Not Collected - LNAPL</b> |                |                     |                      |  |
| MW-25                 | 05/19/16  | <b>2,600</b>                        | <b>7,300</b>   | 150                 | <b>8,800</b>         |  |
| MW-25                 | 08/10/16  | <b>1,300</b>                        | <b>3,600</b>   | 10                  | <b>6,500</b>         |  |
| MW-25                 | 11/16/16  | <b>650</b>                          | <b>2,900</b>   | 200                 | <b>3,700</b>         |  |
| MW-25 <sup>6</sup>    | 02/10/17  | <b>6.0</b>                          | <1.0           | <1.0                | <b>2,000</b>         |  |
| MW-25                 | 05/23/17  | <b>22</b>                           | 23             | 61                  | <b>1,700</b>         |  |
| MW-25                 | 08/29/17  | <1.0                                | <1.0           | <1.0                | 20                   |  |
| MW-25                 | 11/27/17  | <1.0                                | <1.0           | 2.0                 | 100                  |  |
| MW-25                 | 02/15/18  | <1.0                                | <1.0           | <1.0                | 5.6                  |  |
| MW-25                 | 05/31/18  | <1.0                                | <1.0           | <1.0                | <2.0                 |  |
| MW-25                 | 08/30/18  | <1.0                                | <1.0           | <1.0                | <2.0                 |  |
| MW-25                 | 11/27/18  | <1.0                                | <1.0           | <1.0                | 11                   |  |
| MW-25                 | 02/13/19  | <1.0                                | <1.0           | <1.0                | 2.8                  |  |
| MW-26                 | 06/25/15  | <b>650</b>                          | <b>620</b>     | 110                 | 1,100                |  |
| MW-26                 | 08/11/15  | <1.0                                | <1.0           | <1.0                | <1.0                 |  |
| MW-26                 | 11/30/15  | <1.0                                | <1.0           | <1.0                | <1.0                 |  |
| MW-26                 | 02/25/16  | <b>21</b>                           | <1.0           | <1.0                | <1.0                 |  |
| MW-26                 | 05/19/16  | <1.0                                | <1.0           | <1.0                | <1.0                 |  |
| MW-26                 | 08/10/16  | <1.0                                | <1.0           | <1.0                | <1.0                 |  |
| MW-26                 | 11/16/16  | <1.0                                | <1.0           | <1.0                | <1.0                 |  |
| MW-26                 | 02/10/17  | <1.0                                | <1.0           | <1.0                | <1.0                 |  |
| MW-26                 | 05/23/17  | <1.0                                | <1.0           | <1.0                | <2.0                 |  |
| MW-26                 | 08/29/17  | <1.0                                | <1.0           | <1.0                | <2.0                 |  |
| MW-26                 | 11/27/17  | <1.0                                | <1.0           | <1.0                | <2.0                 |  |
| MW-26                 | 02/15/18  | <1.0                                | <1.0           | <1.0                | <2.0                 |  |
| MW-26                 | 05/31/18  | <1.0                                | <1.0           | <1.0                | <2.0                 |  |
| MW-26                 | 08/30/18  | <1.0                                | <1.0           | <1.0                | <2.0                 |  |
| MW-26                 | 11/27/18  | <1.0                                | <1.0           | <1.0                | <2.0                 |  |
| MW-26                 | 02/13/19  | <1.0                                | <1.0           | <1.0                | <2.0                 |  |
| MW-27                 | 06/25/15  | <b>38</b>                           | 2.0            | <1.0                | 3.1                  |  |
| MW-27                 | 08/11/15  | 2.0                                 | 4.1            | <1.0                | 3.7                  |  |

**TABLE 2**  
**GROUNDWATER ANALYTICAL DATA**  
**NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID | Date     | Benzene (µg/L) | Toluene (µg/L)                       | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|--------------------|----------|----------------|--------------------------------------|---------------------|----------------------|
| COGCC Standard     |          | 5              | 560                                  | 700                 | 1,400                |
| MW-27              | 11/30/15 | <1.0           | <1.0                                 | <1.0                | <1.0                 |
| MW-27              | 02/25/16 | 45             | <1.0                                 | <1.0                | <1.0                 |
| MW-27              | 05/19/16 | <1.0           | <1.0                                 | <1.0                | <1.0                 |
| MW-27              | 08/10/16 | <1.0           | <1.0                                 | <1.0                | <1.0                 |
| MW-27 <sup>4</sup> | 11/16/16 | NS             | NS                                   | NS                  | NS                   |
| MW-27 <sup>4</sup> | 02/10/17 | NS             | NS                                   | NS                  | NS                   |
| MW-27              | 05/23/17 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-27              | 08/29/17 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-27              | 11/27/17 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-27              | 02/15/18 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-27              | 05/31/18 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-27              | 08/30/18 |                | Not Sampled - Well Inaccessible      |                     |                      |
| MW-27              | 11/27/18 |                | Not Sampled - Well Inaccessible      |                     |                      |
| MW-27              | 02/13/19 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-28              | 06/25/15 | 260            | <1.0                                 | 10                  | 2.5                  |
| MW-28              | 08/11/15 | 2,700          | 1,700                                | 220                 | 2,100                |
| MW-28              | 11/30/15 | 120            | <1.0                                 | 3.2                 | 3.4                  |
| MW-28              | 02/25/16 | <1.0           | <1.0                                 | <1.0                | <1.0                 |
| MW-28              | 05/19/16 | <1.0           | <1.0                                 | <1.0                | <1.0                 |
| MW-28              | 08/10/16 | <1.0           | <1.0                                 | <1.0                | <1.0                 |
| MW-28              | 11/16/16 | <1.0           | <1.0                                 | <1.0                | <1.0                 |
| MW-28              | 02/10/17 | <1.0           | <1.0                                 | <1.0                | <1.0                 |
| MW-28              | 05/23/17 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-28              | 08/29/17 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-28              | 11/27/17 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-28              | 02/15/18 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-28              | 05/31/18 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-28              | 08/30/18 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-28              | 11/27/18 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-28              | 02/13/19 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-29              | 06/25/15 | 50             | <1.0                                 | 1.0                 | 5.3                  |
| MW-29              | 08/11/15 | <1.0           | <1.0                                 | <1.0                | <1.0                 |
| MW-29              | 11/30/15 |                | Sample Not Collected - Dry           |                     |                      |
| MW-29              | 02/25/16 |                | Sample Not Collected - Dry           |                     |                      |
| MW-29              | 05/19/16 | <1.0           | <1.0                                 | <1.0                | <1.0                 |
| MW-29              | 08/10/16 | <1.0           | <1.0                                 | <1.0                | <1.0                 |
| MW-29              | 11/16/16 | <1.0           | <1.0                                 | <1.0                | <1.0                 |
| MW-29 <sup>5</sup> | 02/10/17 |                | Sample Not Collected - Dry           |                     |                      |
| MW-29              | 05/23/17 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-29              | 08/29/17 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-29              | 11/27/17 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-29              | 02/15/18 |                | Insufficient water to collect sample |                     |                      |
| MW-29              | 05/31/18 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-29              | 08/30/18 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-29              | 11/27/18 | <1.0           | <1.0                                 | <1.0                | <2.0                 |
| MW-29              | 02/13/19 |                | Insufficient water to collect sample |                     |                      |

**TABLE 2**  
**GROUNDWATER ANALYTICAL DATA**  
**NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID    | Date     | Benzene (µg/L)   | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|-----------------------|----------|--|----------------|---------------------|----------------------|
| <b>COGCC Standard</b> |          | <b>5</b>   | <b>560</b>     | <b>700</b>          | <b>1,400</b>         |
| MW-30                 | 06/25/15 | 25   | <1.0           | <1.0                | <1.0                 |
| MW-30                 | 08/11/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-30                 | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                |                     |                      |
| MW-31                 | 07/23/15 | 25   | <1.0           | 2.7                 | 20                   |
| MW-31                 | 08/11/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-31                 | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                |                     |                      |
| MW-32                 | 07/23/15 | 20   | 1.4            | 2.1                 | 17                   |
| MW-32                 | 08/11/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-32                 | 11/30/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-32                 | 02/25/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-32                 | 05/19/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-32                 | 08/10/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-32                 | 11/16/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-32                 | 02/10/17 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-32 <sup>6</sup>    | 05/23/17 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-32                 | 08/29/17 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-32                 | 11/27/17 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-32                 | 02/15/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-32                 | 05/31/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-32                 | 08/30/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-32                 | 11/27/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-32                 | 02/13/19 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-33                 | 07/23/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-33                 | 08/11/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-33                 | 11/30/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-33                 | 02/25/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-33                 | 05/19/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-33                 | 08/10/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-33                 | 11/16/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-33                 | 02/10/17 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-33                 | 05/23/17 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-33                 | 08/29/17 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-33                 | 11/27/17 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-33                 | 02/15/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-33                 | 05/31/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-33                 | 08/30/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-33                 | 11/27/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-33                 | 02/13/19 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-34                 | 07/23/15 | 1.8  | <1.0           | <1.0                | <1.0                 |
| MW-34                 | 08/11/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-34                 | 11/30/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-34                 | 02/25/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-34                 | 05/19/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-34                 | 08/10/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-34                 | 11/16/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-34                 | 02/10/17 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-34                 | 05/23/17 | <1.0   | <1.0           | <1.0                | <2.0                 |

**TABLE 2**  
**GROUNDWATER ANALYTICAL DATA**  
**NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID    | Date     | Benzene (µg/L)   | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|-----------------------|----------|--|----------------|---------------------|----------------------|
| <b>COGCC Standard</b> |          | <b>5</b>   | <b>560</b>     | <b>700</b>          | <b>1,400</b>         |
| MW-34                 | 08/29/17 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-34                 | 11/27/17 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-34                 | 02/15/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-34                 | 05/31/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-34                 | 08/30/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-34                 | 11/27/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-34                 | 02/13/19 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-35                 | 07/23/15 | <b>44</b>  | <1.0           | <1.0                | <1.0                 |
| MW-35                 | 08/11/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-35                 | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                |                     |                      |
| MW-36                 | 07/23/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-36                 | 08/11/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-36                 | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                |                     |                      |
| MW-37                 | 07/23/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-37                 | 08/11/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-37                 | 11/30/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-37                 | 02/25/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-37                 | 05/19/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-37                 | 08/10/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-37                 | 11/16/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-37                 | 02/10/17 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-37                 | 05/23/17 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-37                 | 08/29/17 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-37                 | 11/27/17 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-37                 | 02/15/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-37                 | 05/31/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-37                 | 08/30/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-37                 | 11/27/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-37                 | 02/13/19 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-38                 | 07/23/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-38                 | 08/11/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-38                 | 11/30/15 | Well Removed From Monitoring Well Network <sup>1</sup> |                |                     |                      |
| MW-39                 | 07/23/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-39                 | 07/30/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-39                 | 08/11/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-39                 | 11/30/15 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-39                 | 02/25/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-39                 | 05/19/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-39                 | 08/10/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-39                 | 11/16/16 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-39                 | 02/10/17 | <1.0   | <1.0           | <1.0                | <1.0                 |
| MW-39                 | 05/23/17 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-39                 | 08/29/17 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-39                 | 11/27/17 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-39                 | 02/15/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-39                 | 05/31/18 | <1.0   | <1.0           | <1.0                | <2.0                 |
| MW-39                 | 08/30/18 | <1.0   | <1.0           | <1.0                | <2.0                 |

**TABLE 2**  
**GROUNDWATER ANALYTICAL DATA**  
**NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID    | Date     | Benzene (µg/L) | Toluene (µg/L)                  | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|-----------------------|----------|----------------|---------------------------------|---------------------|----------------------|
| <b>COGCC Standard</b> |          | <b>5</b>       | <b>560</b>                      | <b>700</b>          | <b>1,400</b>         |
| MW-39                 | 11/27/18 | <1.0           | <1.0                            | <1.0                | <2.0                 |
| MW-39                 | 02/13/19 | <1.0           | <1.0                            | <1.0                | <2.0                 |
| MW-40                 | 07/23/15 | <b>5.8</b>     | <1.0                            | <1.0                | <1.0                 |
| MW-40                 | 07/30/15 | NS             | NS                              | NS                  | NS                   |
| MW-40                 | 08/11/15 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-40                 | 11/30/15 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-40                 | 02/25/16 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-40                 | 05/19/16 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-40                 | 08/10/16 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-40                 | 11/16/16 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-40                 | 02/10/17 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-40                 | 05/23/17 | <1.0           | <1.0                            | <1.0                | <2.0                 |
| MW-40                 | 08/29/17 | <1.0           | <1.0                            | <1.0                | <2.0                 |
| MW-40                 | 11/27/17 | <1.0           | <1.0                            | <1.0                | <2.0                 |
| MW-40                 | 02/15/18 | <1.0           | <1.0                            | <1.0                | <2.0                 |
| MW-40                 | 05/31/18 | <1.0           | <1.0                            | <1.0                | <2.0                 |
| MW-40                 | 08/30/18 | <1.0           | <1.0                            | <1.0                | <2.0                 |
| MW-40                 | 11/27/18 |                | Not Sampled - Well Inaccessible |                     |                      |
| MW-40                 | 02/13/19 |                | Not Sampled - Well Inaccessible |                     |                      |
| MW-41                 | 07/23/15 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-41                 | 07/30/15 | NS             | NS                              | NS                  | NS                   |
| MW-41                 | 08/11/15 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-41                 | 11/30/15 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-41                 | 02/25/16 | <1.0           | <1.0                            | <1.0                | 7.3                  |
| MW-41                 | 05/19/16 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-41                 | 08/10/16 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-41                 | 11/16/16 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-41                 | 02/10/17 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-41                 | 05/23/17 | <1.0           | <1.0                            | <1.0                | <2.0                 |
| MW-41                 | 08/29/17 | <1.0           | <1.0                            | <1.0                | <2.0                 |
| MW-41                 | 11/27/17 | <1.0           | <1.0                            | <1.0                | <2.0                 |
| MW-41                 | 02/15/18 | <1.0           | <1.0                            | <1.0                | <2.0                 |
| MW-41                 | 05/31/18 | <1.0           | <1.0                            | <1.0                | <2.0                 |
| MW-41                 | 08/30/18 | <1.0           | <1.0                            | <1.0                | <2.0                 |
| MW-41                 | 11/27/18 |                | Not Sampled - Well Inaccessible |                     |                      |
| MW-41                 | 02/13/19 | <1.0           | <1.0                            | <1.0                | <2.0                 |
| MW-42                 | 07/30/15 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-42                 | 08/11/15 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-42                 | 11/30/15 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-42                 | 02/25/16 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-42                 | 05/19/16 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-42                 | 08/10/16 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-42                 | 11/16/16 | <1.0           | <1.0                            | <1.0                | <1.0                 |
| MW-42                 | 02/10/17 | <1.0           | 1.2                             | <1.0                | 2.6                  |
| MW-42                 | 05/23/17 | <1.0           | <1.0                            | <1.0                | <2.0                 |
| MW-42                 | 08/29/17 | <1.0           | <1.0                            | <1.0                | <2.0                 |
| MW-42                 | 11/27/17 | <1.0           | <1.0                            | <1.0                | <2.0                 |

**TABLE 2**  
**GROUNDWATER ANALYTICAL DATA**  
**NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID | Date     | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|--------------------|----------|----------------|----------------|---------------------|----------------------|
| COGCC Standard     |          | 5              | 560            | 700                 | 1,400                |
| MW-42              | 02/15/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-42              | 05/31/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-42              | 08/30/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-42              | 11/27/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-42              | 02/13/19 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-43              | 07/30/15 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-43              | 08/11/15 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-43              | 11/30/15 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-43              | 02/25/16 | 1.2            | 2.0            | <1.0                | <1.0                 |
| MW-43              | 05/19/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-43              | 08/10/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-43              | 11/16/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-43              | 02/10/17 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-43              | 05/23/17 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-43              | 08/29/17 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-43              | 11/27/17 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-43              | 02/15/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-43              | 05/31/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-43              | 08/30/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-43              | 11/27/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-43              | 02/13/19 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-44              | 07/30/15 | 14             | <1.0           | 19                  | 96                   |
| MW-44              | 08/11/15 | 160            | <1.0           | 28                  | <1.0                 |
| MW-44              | 11/30/15 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-44              | 02/25/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-44              | 05/19/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-44              | 08/10/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-44              | 11/16/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-44              | 02/10/17 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-44              | 05/23/17 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-44              | 08/29/17 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-44              | 11/27/17 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-44              | 02/15/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-44              | 05/31/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-44              | 08/30/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-44              | 11/27/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-44              | 02/13/19 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-45              | 07/30/15 | <1.0           | <1.0           | <1.0                | 1.4                  |
| MW-45              | 08/11/15 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-45              | 11/30/15 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-45              | 02/25/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-45              | 05/19/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-45              | 08/10/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-45              | 11/16/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-45              | 02/10/17 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-45              | 05/23/17 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-45              | 08/29/17 | <1.0           | <1.0           | <1.0                | <2.0                 |

**TABLE 2**  
**GROUNDWATER ANALYTICAL DATA**  
**NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Monitoring Well ID    | Date     | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|-----------------------|----------|----------------|----------------|---------------------|----------------------|
| <b>COGCC Standard</b> |          | <b>5</b>       | <b>560</b>     | <b>700</b>          | <b>1,400</b>         |
| MW-45                 | 11/27/17 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-45                 | 02/15/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-45                 | 05/31/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-45                 | 08/30/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-45                 | 11/27/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-45                 | 02/13/19 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-46                 | 11/30/15 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-46                 | 02/25/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-46                 | 05/19/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-46                 | 08/10/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-46                 | 11/16/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-46                 | 02/10/17 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-46                 | 05/23/17 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-46                 | 08/29/17 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-46                 | 11/27/17 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-46                 | 02/15/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-46                 | 05/31/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-46                 | 08/30/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-46                 | 11/27/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-46                 | 02/13/19 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-47                 | 11/30/15 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-47                 | 02/25/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-47                 | 05/19/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-47                 | 08/10/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-47                 | 11/16/16 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-47                 | 02/10/17 | <1.0           | <1.0           | <1.0                | <1.0                 |
| MW-47                 | 05/23/17 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-47                 | 08/29/17 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-47                 | 11/27/17 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-47                 | 02/15/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-47                 | 05/31/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-47                 | 08/30/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-47                 | 11/27/18 | <1.0           | <1.0           | <1.0                | <2.0                 |
| MW-47                 | 02/13/19 | <1.0           | <1.0           | <1.0                | <2.0                 |

Notes:

LNAPL = Light non-aqueous phase liquid

COGCC = Colorado Oil and Gas Conservation Commission

µg/L = Micrograms per liter

Dry = Insufficient groundwater to collect sample

NS = Not sampled

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

Groundwater standards referenced from COGCC Table 910-1

**Highlighted results exceed the COGCC Table 910-1 standard**

<sup>1</sup> As allowed by Form 27 Conditions of Approval (Document # 200437738)

<sup>2</sup> Sample collected despite of 0.01 feet of LNAPL measured

<sup>3</sup> Well not sampled due to obstruction in the well

**TABLE 2**  
**GROUNDWATER ANALYTICAL DATA**  
**NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| <b>Monitoring Well ID</b> | <b>Date</b> | <b>Benzene (µg/L)</b> | <b>Toluene (µg/L)</b> | <b>Ethylbenzene (µg/L)</b> | <b>Total Xylenes (µg/L)</b> |
|---------------------------|-------------|-----------------------|-----------------------|----------------------------|-----------------------------|
| <b>COGCC Standard</b>     |             | <b>5</b>              | <b>560</b>            | <b>700</b>                 | <b>1,400</b>                |

<sup>4</sup> Well not sampled due to equipment parked over the well

<sup>5</sup> Well not sampled due to insufficient water for sampled collection

<sup>6</sup> Sheen observed in well

**TABLE 3**  
**EFR/AS OPERATIONAL SUMMARY TABLE**  
**NOBLE ENERGY, INC. - SYLVESTER 31-5H5, 6H5**

| Date                      | EFR Wells    | Total AS/EFR Duration (hours) | Approximate Gallons Extracted | AS Wells        | Air Injection Pressure (psi) | Average Air Flow Rate (cfm) |
|---------------------------|--------------|-------------------------------|-------------------------------|-----------------|------------------------------|-----------------------------|
| <b>Third Quarter 2017</b> |              |                               |                               |                 |                              |                             |
| 8/14/2017                 | MW-25        | 6                             | 504                           | None            | 0                            | 0                           |
| 8/18/2017                 |              | 8                             | 168                           | MW-25           | 20                           | 4                           |
| 8/21/2017                 |              | 8                             | 588                           |                 | 15                           | 26                          |
| 8/25/2017                 |              | 8                             | 210                           |                 | 20                           | 30                          |
| 8/28/2017                 |              | 8                             | 399                           |                 | 10                           | 23                          |
| 9/1/2017                  | None         | 5                             | 0                             | MW-15,<br>MW-16 | 20                           | 42.5                        |
| <b>Quarterly Totals</b>   |              | 6                             | 504                           |                 |                              |                             |
| <b>First Quarter 2018</b> |              |                               |                               |                 |                              |                             |
| 1/18/2018                 | MW-02R, MW12 | 6                             | 462                           | MW02R, MW12     | 15                           | NR                          |
| 1/23/2018                 |              | 7.75                          | 504                           |                 | 15                           | NR                          |
| 1/26/2018                 |              | 8                             | 470                           |                 | 15                           | 28                          |
| 1/30/2018                 |              | 8                             | 672                           |                 | 15                           | 30                          |
| 2/2/2018                  |              | 8                             | 672                           |                 | 15                           | NR                          |
| 2/6/2018                  |              | 8                             | 672                           |                 | 15                           | 25                          |
| <b>Quarterly Totals</b>   |              | 45.75                         | 3452                          |                 |                              |                             |

**Notes:**

EFR = Enhanced fluid recovery

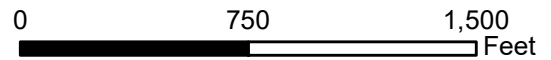
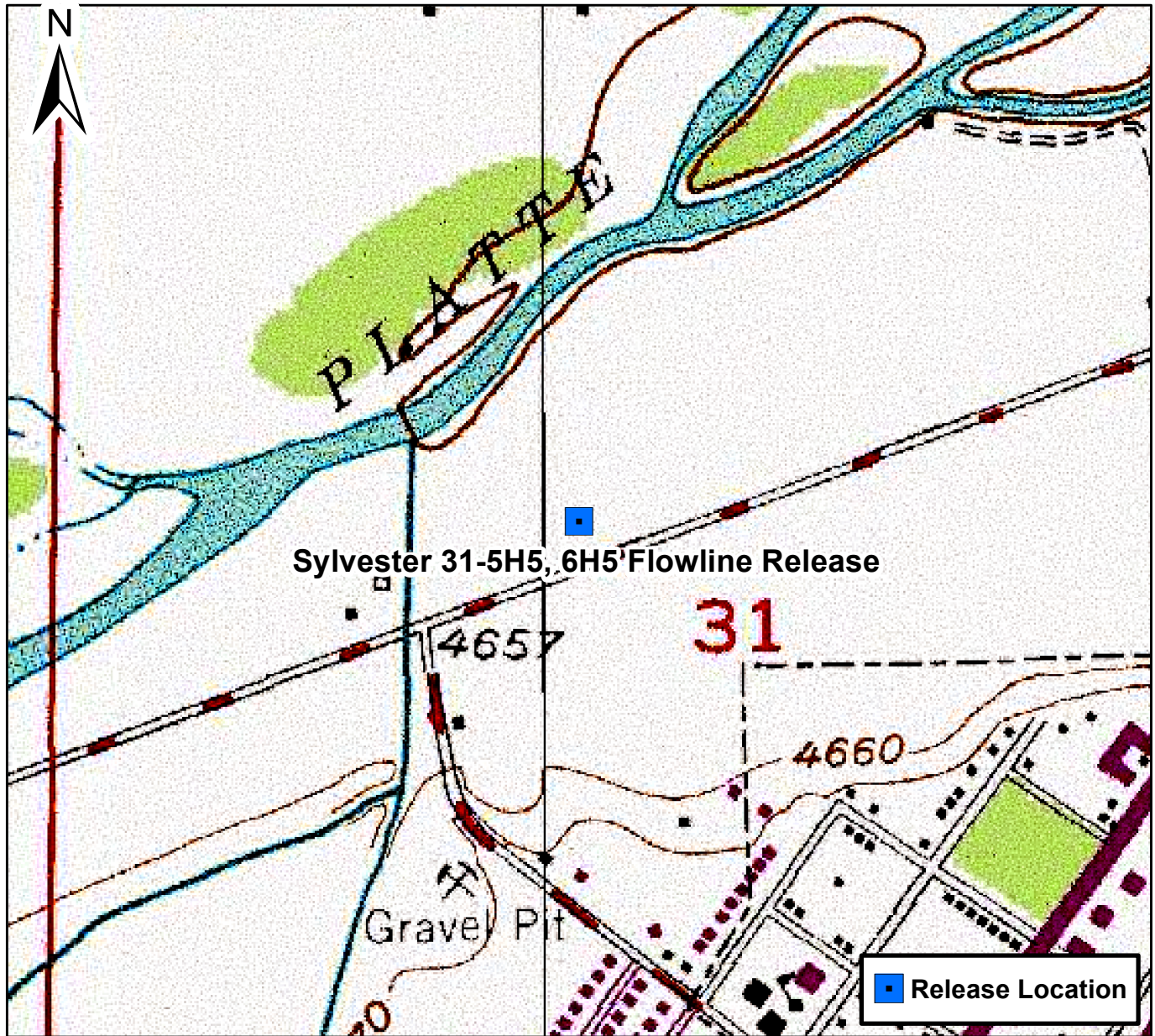
AS = Air sparge

psi = Pounds per square inch

cfm = cubic feet per minute

NR = Not recorded

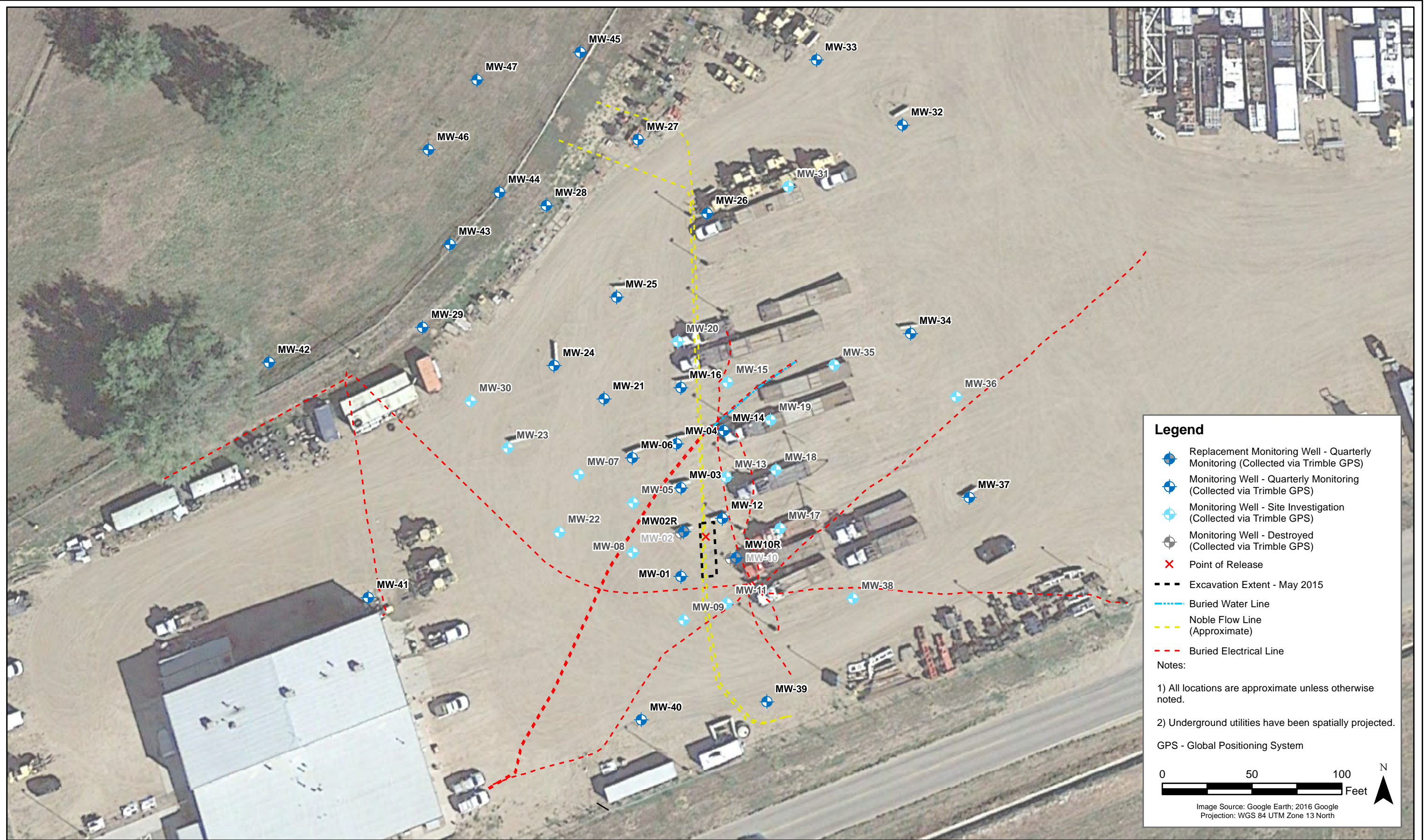
## FIGURES



### Figure 1

Site Location Map  
 Sylvester 31-5H5, 6H5  
 L1 S31 T5N R65W  
 Weld County, Colorado





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



**Noble Energy Inc. - DJ Basin**  
**Sylvester 31-5H5, 6H5**  
 L1 Section 31, Township 5 North, Range 65 West  
 Weld County, Colorado

Site Overview  
 Map

Figure  
 2



DATE: March 2019

DESIGNED BY: B. Bruns

DRAWN BY: D. Arnold



**Noble Energy Inc.**  
**Sylvester 31-5H5, 6H5**  
 L1 Section 31, Township 5 North, Range 65 West  
 Weld County, Colorado

Groundwater Potentiometric  
 Surface Contour Map  
 (02/13/2019)

Figure  
 3



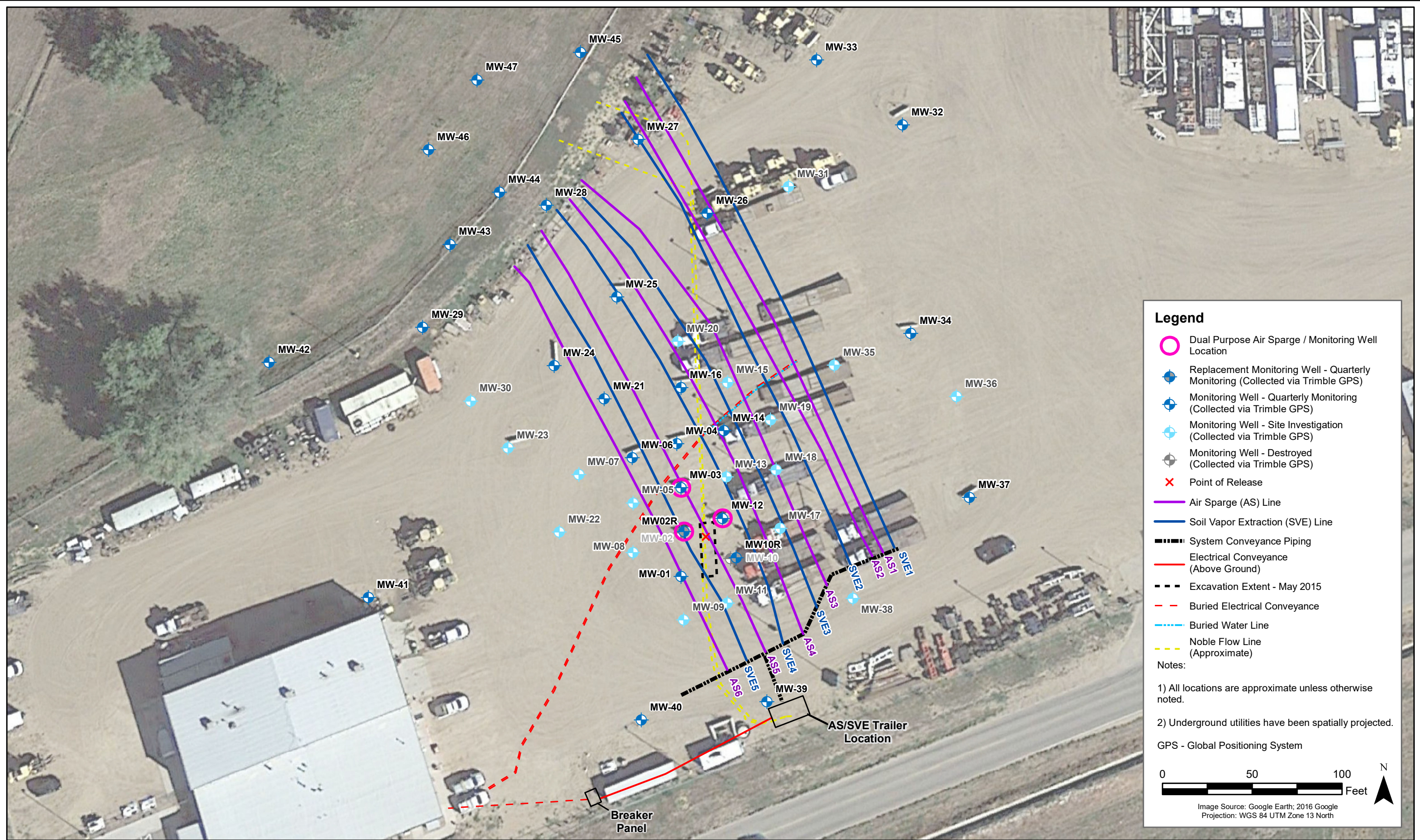
DATE: March 2019  
 DESIGNED BY: B. Bruns  
 DRAWN BY: D. Arnold



**Noble Energy Inc.**  
**Sylvester 31-5H5, 6H5**  
 L1 Section 31, Township 5 North, Range 65 West  
 Weld County, Colorado

Groundwater Analytical  
 Results Map  
 (02/13/2019)

Figure  
 4



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



**Noble Energy Inc. - DJ Basin**  
**Sylvester 31-5H5, 6H5 Flowline Release**  
 L1 Section 31, Township 5 North, Range 65 West  
 Weld County, Colorado

Remediation System Overview  
 Map

Figure  
 5

# **ATTACHMENT A**

## **GROUNDWATER LABORATORY ANALYTICAL DATA REPORT**

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 19, 2019

Brandon Bruns

Tasman Geosciences


6899 Pecos St, Unit C

Denver, CO 80221

RE: Noble - Sylvester 31-5H5, 6H5

Enclosed are the results of analyses for samples received by Summit Scientific on 02/13/19 17:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large, stylized 'M' and 'P'.

Muri Premer For Ben Shrewsbury

Laboratory Manager



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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
 Project Manager: Brandon Bruns

**Reported:**  
 02/19/19 10:43

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| MW-01     | 1902123-01    | Water  | 02/13/19 12:30 | 02/13/19 17:50 |
| MW-02R    | 1902123-02    | Water  | 02/13/19 12:45 | 02/13/19 17:50 |
| MW-03     | 1902123-03    | Water  | 02/13/19 12:50 | 02/13/19 17:50 |
| MW-04     | 1902123-04    | Water  | 02/13/19 12:35 | 02/13/19 17:50 |
| MW-06     | 1902123-05    | Water  | 02/13/19 12:40 | 02/13/19 17:50 |
| MW-10R    | 1902123-06    | Water  | 02/13/19 12:40 | 02/13/19 17:50 |
| MW-12     | 1902123-07    | Water  | 02/13/19 12:50 | 02/13/19 17:50 |
| MW-14     | 1902123-08    | Water  | 02/13/19 12:42 | 02/13/19 17:50 |
| MW-16     | 1902123-09    | Water  | 02/13/19 12:31 | 02/13/19 17:50 |
| MW-21     | 1902123-10    | Water  | 02/13/19 12:25 | 02/13/19 17:50 |
| MW-24     | 1902123-11    | Water  | 02/13/19 12:20 | 02/13/19 17:50 |
| MW-25     | 1902123-12    | Water  | 02/13/19 12:20 | 02/13/19 17:50 |
| MW-26     | 1902123-13    | Water  | 02/13/19 12:15 | 02/13/19 17:50 |
| MW-27     | 1902123-14    | Water  | 02/13/19 11:55 | 02/13/19 17:50 |
| MW-28     | 1902123-15    | Water  | 02/13/19 11:40 | 02/13/19 17:50 |
| MW-32     | 1902123-16    | Water  | 02/13/19 12:05 | 02/13/19 17:50 |
| MW-33     | 1902123-17    | Water  | 02/13/19 12:05 | 02/13/19 17:50 |
| MW-34     | 1902123-18    | Water  | 02/13/19 11:45 | 02/13/19 17:50 |
| MW-37     | 1902123-19    | Water  | 02/13/19 11:30 | 02/13/19 17:50 |
| MW-39     | 1902123-20    | Water  | 02/13/19 12:20 | 02/13/19 17:50 |
| MW-41     | 1902123-21    | Water  | 02/13/19 12:20 | 02/13/19 17:50 |
| MW-42     | 1902123-22    | Water  | 02/13/19 13:30 | 02/13/19 17:50 |
| MW-43     | 1902123-23    | Water  | 02/13/19 13:35 | 02/13/19 17:50 |
| MW-44     | 1902123-24    | Water  | 02/13/19 13:40 | 02/13/19 17:50 |
| MW-45     | 1902123-25    | Water  | 02/13/19 13:50 | 02/13/19 17:50 |
| MW-46     | 1902123-26    | Water  | 02/13/19 14:00 | 02/13/19 17:50 |
| MW-47     | 1902123-27    | Water  | 02/13/19 14:10 | 02/13/19 17:50 |

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



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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
02/19/19 10:43

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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.*

1902123.1

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

|                                    |  |
|------------------------------------|--|
| Client: Noble / Tasman             | Project Manager: Brandon Bruns, Invoice: Jacob Evans |
| Address: 6899 Pecos Street         | E-Mail: Bbruns@tasman-geo.com                        |
| City/State/Zip: Denver / CO/ 80221 |  |
| Phone: 970.210.6571                | Project Name: SYLVESTER 31-5H5, UHS                  |
| Sampler Name: T. Lichtenberg       | Project Number: _____                                |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative |      |      |       | Matrix |      |                | Analysis Requested |           |              |          |             | Special Instructions |  |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|--------------------|-----------|--------------|----------|-------------|----------------------|--|
|    |                    |              |              |                 | HCl          | HNO3 | None | Other | Water  | Soil | Air-Canister # | Other              | 8260 BTEX | 8260B GBTEXN | 8015 DRO | pH, EC, SAR |                      |  |
| 1  | MW-01              | 2/13/19      | 1230         |                 | X            |      |      |       | X      |      |                |                    | X         |              |          |             |                      |  |
| 2  | MW-02R             |              | 1245         |                 |              |      |      |       |        |      |                |                    |           |              |          |             |                      |  |
| 3  | MW-03              |              | 1250         |                 |              |      |      |       |        |      |                |                    |           |              |          |             |                      |  |
| 4  | MW-04              |              | 1235         |                 |              |      |      |       |        |      |                |                    |           |              |          |             |                      |  |
| 5  | MW-06              |              | 1240         |                 |              |      |      |       |        |      |                |                    |           |              |          |             |                      |  |
| 6  | MW-10R             |              | 1240         |                 |              |      |      |       |        |      |                |                    |           |              |          |             |                      |  |
| 7  | MW-12              |              | 1250         |                 |              |      |      | X     |        |      |                |                    |           |              |          |             |                      |  |
| 8  | MW-14              |              | 1242         |                 | X            |      |      |       |        |      |                |                    |           |              |          |             |                      |  |
| 9  | MW-16              |              | 1231         |                 |              |      |      |       |        |      |                |                    |           |              |          |             |                      |  |
| 10 | MW-21              |              | 1225         |                 |              |      |      |       |        |      |                |                    |           |              |          |             |                      |  |

|   |   |  |        |
|---|---|--|--------|
| Relinquished by:<br>Date/Time: 2/13/19 0100                   | Received by: Tasman's Lock Box<br>Date/Time: 2/13/19 0100 | Turn Around Time (Check)<br>Same Day _____ 72 hours _____<br>24 hours _____ Standard <input checked="" type="checkbox"/><br>48 hours _____ | Notes: |
| Relinquished by: Tasman's Lock Box<br>Date/Time: 2-13-19 1750 | Received by:<br>Date/Time: 2-13-19 1750                   | Sample Integrity:  |        |
| Relinquished by: _____<br>Date/Time: _____                    | Received by: _____<br>Date/Time: _____                    | Temperature Upon Receipt: 5.1<br>Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No                             |        |

1902/23.2



# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

|                                    |  |
|------------------------------------|--|
| Client: Noble / Tasman             | Project Manager: Brandon Bruns, Invoice: Jacob Evans |
| Address: 6899 Pecos Street         | E-Mail: Bbruns@tasman-geo.com                        |
| City/State/Zip: Denver / CO/ 80221 |  |
| Phone: 970.210.6571                | Project Name: <u>SYLVESTER 31-SHS, LHS</u>           |
| Sampler Name: T. Lichtenberg       | Project Number:                                      |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative |      |      |       | Matrix |      |                | Analysis Requested |           |              |          | Special Instructions |             |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|--------------------|-----------|--------------|----------|----------------------|-------------|
|    |                    |              |              |                 | HCl          | HNO3 | None | Other | Water  | Soil | Air-Canister # | Other              | 8260 BTEX | 8260B GBTEXN | 8015 DRO |                      | pH, EC, SAR |
| 1  | MW-24              | 2/13/19      | 1220         |                 | X            |      |      |       | X      |      |                |                    | X         |              |          |                      |             |
| 2  | MW-25              |              | 1220         |                 |              |      |      |       |        |      |                |                    |           |              |          |                      |             |
| 3  | MW-26              |              | 1215         |                 |              |      |      |       |        |      |                |                    |           |              |          |                      |             |
| 4  | MW-27              |              | 1155         |                 |              |      |      |       |        |      |                |                    |           |              |          |                      |             |
| 5  | MW-28              |              | 1140         |                 |              |      |      |       |        |      |                |                    |           |              |          |                      |             |
| 6  | MW-32              |              | 1205         |                 |              |      |      |       |        |      |                |                    |           |              |          |                      |             |
| 7  | MW-33              |              | 1205         |                 |              |      |      |       |        |      |                |                    |           |              |          |                      |             |
| 8  | MW-34              |              | 1145         |                 |              |      |      |       |        |      |                |                    |           |              |          |                      |             |
| 9  | MW-37              |              | 1130         |                 |              |      |      |       |        |      |                |                    |           |              |          |                      |             |
| 10 | MW-39              |              | 1220         |                 |              |      |      |       |        |      |                |                    |           |              |          |                      |             |

|   |   |   |               |
|---|---|---|---------------|
| Relinquished by:  Date/Time: 2/13/19 @ 1600 | Received by: Tasman's Lock Box Date/Time: 2/13/19 @ 1600  | <b>Turn Around Time (Check)</b><br>Same Day _____ 72 hours _____<br>24 hours _____ Standard <u>X</u><br>48 hours _____<br><b>Sample Integrity:</b><br>Temperature Upon Receipt: <u>5.1</u><br>Samples Intact: <u>Yes</u> No | <b>Notes:</b> |
| Relinquished by: Tasman's Lock Box Date/Time: 2.13.19 1758  | Received by:  Date/Time: 2.13.19 1758 |   |               |
| Relinquished by:  | Received by:  |   |               |

1902123.3

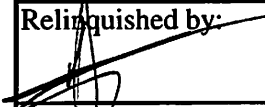

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

|                                    |  |
|------------------------------------|--|
| Client: Noble / Tasman             | Project Manager: Brandon Bruns, Invoice: Jacob Evans |
| Address: 6899 Pecos Street         | E-Mail: Bbruns@tasman-geo.com                        |
| City/State/Zip: Denver / CO/ 80221 |  |
| Phone: 970.210.6571                | Project Name: <u>SNWESTER 31-SHS, 045</u>            |
| Sampler Name: T. Lichtenberg       | Project Number:                                      |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative |      |      |       | Matrix |      |                | Analysis Requested |            |               |           |             | Special Instructions |  |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|--------------------|------------|---------------|-----------|-------------|----------------------|--|
|    |                    |              |              |                 | HCl          | HNO3 | None | Other | Water  | Soil | Air-Canister # | Other              | \$260 BTEX | \$260B GBTEXN | \$015 DRO | pH, EC, SAR |                      |  |
| 1  | MW-41              | 2/13/19      | 1220         |                 | X            |      |      |       | X      |      |                |                    | X          |               |           |             |                      |  |
| 2  | MW-42              |              | 1330         |                 |              |      |      |       |        |      |                |                    |            |               |           |             |                      |  |
| 3  | MW-43              |              | 1335         |                 |              |      |      |       |        |      |                |                    |            |               |           |             |                      |  |
| 4  | MW-44              |              | 1340         |                 |              |      |      |       |        |      |                |                    |            |               |           |             |                      |  |
| 5  | MW-45              |              | 1350         |                 |              |      |      |       |        |      |                |                    |            |               |           |             |                      |  |
| 6  | MW-46              |              | 1400         |                 |              |      |      |       |        |      |                |                    |            |               |           |             |                      |  |
| 7  | MW-47              |              | 1410         |                 |              |      |      |       |        |      |                |                    |            |               |           |             |                      |  |
| 8  |                    |              |              |                 |              |      |      |       |        |      |                |                    |            |               |           |             |                      |  |
| 9  |                    |              |              |                 |              |      |      |       |        |      |                |                    |            |               |           |             |                      |  |
| 10 |                    |              |              |                 |              |      |      |       |        |      |                |                    |            |               |           |             |                      |  |

|  |  |  |               |
|--|--|--|---------------|
| Relinquished by:  Date/Time: 2/13/19 01600 | Received by: Tasman's Lock Box Date/Time: 2/13/19 01600  | <b>Turn Around Time (Check)</b><br>Same Day <input type="checkbox"/> 72 hours<br>24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/><br>48 hours <input type="checkbox"/><br><b>Sample Integrity:</b><br>Temperature Upon Receipt: <u>S.I.</u><br>Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <b>Notes:</b> |
| Relinquished by: Tasman's Lock Box Date/Time: 2.13.19 1750   | Received by:  Date/Time: 2.13.19 1750 |  |               |
| Relinquished by:   | Received by:   |  |               |

### Sample Receipt Checklist

S2 Work Order 1902123

Client: Noble/Tasman Client Project ID: Sylvester 31-SH5, 6H5

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

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

|           |     |
|-----------|-----|
| Temp (°C) | 5.1 |
|-----------|-----|

Thermometer ID: 61857155-K

|   | Yes | No | N/A | Comments (if any) |
|---|-----|----|-----|-------------------|
| If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ?<br>NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun. | /   |    |     |                   |
| Were all samples received intact <sup>(1)</sup> ?   | /   |    |     |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?  | /   |    |     |                   |
| If custody seals are present, are they intact <sup>(1)</sup> ?  |     |    | /   |                   |
| Are samples with holding times due within 48 hours sample due within 48 hours present?  |     |    | /   |                   |
| Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?   | /   |    |     |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   | /   |    |     |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   | /   |    |     |                   |
| Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?   | /   |    |     |                   |
| For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>   |     | /  |     |                   |
| Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?<br>Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect  | /   |    |     | Hcl               |
| If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?<br>Record the pH in Comments.  |     |    | /   |                   |
| If dissolved metals are requested, were samples field filtered?   |     |    | /   |                   |
| Additional Comments (if any):<br><br><br>   |     |    |     |                   |
| <b><sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.</b>  |     |    |     |                   |

CP  
Custodian Printed Name or Initials

[Signature]  
Signature of Custodian

2.13.19 10:25  
Date/Time



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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
02/19/19 10:43

**MW-01**  
**1902123-01 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 12:30**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/15/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 12:30**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 73.8 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 96.9 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 87.2 %    |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific

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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
02/19/19 10:43

**MW-02R**  
**1902123-02 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 12:45**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/15/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 12:45**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 79.8 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 93.8 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 86.6 %    |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific

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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
02/19/19 10:43

**MW-03**  
**1902123-03 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 12:50**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/15/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 12:50**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 80.9 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 98.8 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 86.4 %    |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific



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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
02/19/19 10:43

**MW-04**  
**1902123-04 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 12:35**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/15/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 12:35**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 75.6 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 95.6 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 94.2 %    |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific

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



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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
02/19/19 10:43

**MW-06**  
**1902123-05 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 12:40**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/15/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 12:40**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 75.7 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 95.6 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 88.4 %    |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific



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



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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
02/19/19 10:43

**MW-10R**  
**1902123-06 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 12:40**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/15/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 12:40**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 80.1 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 97.0 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 88.7 %    |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific



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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
02/19/19 10:43

**MW-12**  
**1902123-07 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 12:50**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/15/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 12:50**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 75.6 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 100 %     |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 91.4 %    |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific

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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
02/19/19 10:43

**MW-14**  
**1902123-08 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 12:42**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/15/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 12:42**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 76.7 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 96.3 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 94.9 %    |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific

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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
02/19/19 10:43

**MW-16**  
**1902123-09 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 12:31**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/17/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 12:31**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 93.1 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 96.8 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 101 %     |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific



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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
02/19/19 10:43

**MW-21**  
**1902123-10 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 12:25**

| Analyte                | Result     | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------|------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                        |            | Limit     |  |       |          |         |          |          |           |       |
| Benzene                | ND         | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/17/19 | EPA 8260B |       |
| Toluene                | ND         | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene           | ND         | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b> | <b>2.6</b> | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 12:25**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 95.6 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 96.2 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 103 %     |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific



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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
02/19/19 10:43

**MW-24**  
**1902123-11 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 12:20**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/17/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 12:20**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 91.7 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 97.4 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 98.2 %    |  | 21-167 |          | "     | "        | "        | "      |       |

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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
02/19/19 10:43

**MW-25**  
**1902123-12 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 12:20**

| Analyte                | Result     | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------|------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                        |            | Limit     |  |       |          |         |          |          |           |       |
| Benzene                | ND         | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/17/19 | EPA 8260B |       |
| Toluene                | ND         | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene           | ND         | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b> | <b>2.8</b> | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 12:20**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 95.4 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 97.5 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 101 %     |  | 21-167 |          | "     | "        | "        | "      |       |

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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
02/19/19 10:43

**MW-26**  
**1902123-13 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 12:15**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/17/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 12:15**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 90.8 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 98.2 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 97.5 %    |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific



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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
02/19/19 10:43

**MW-27**  
**1902123-14 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 11:55**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/17/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 11:55**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 94.5 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 97.3 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 95.6 %    |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific



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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
02/19/19 10:43

**MW-28**  
**1902123-15 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 11:40**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/17/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 11:40**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 92.3 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 96.3 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 96.4 %    |  | 21-167 |          | "     | "        | "        | "      |       |

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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
02/19/19 10:43

**MW-32**  
**1902123-16 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 12:05**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/17/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 12:05**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 93.3 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 96.5 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 99.2 %    |  | 21-167 |          | "     | "        | "        | "      |       |

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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
02/19/19 10:43

**MW-33**  
**1902123-17 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 12:05**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/17/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 12:05**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 92.5 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 95.1 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 97.9 %    |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific



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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
02/19/19 10:43

**MW-34**  
**1902123-18 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 11:45**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/17/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 11:45**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 93.8 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 98.0 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 98.0 %    |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific



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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
02/19/19 10:43

**MW-37**  
**1902123-19 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 11:30**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/17/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 11:30**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 94.1 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 96.7 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 95.6 %    |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific



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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
02/19/19 10:43

**MW-39**  
**1902123-20 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 12:20**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902192 | 02/14/19 | 02/17/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 12:20**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 92.4 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 96.1 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 96.0 %    |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific

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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
02/19/19 10:43

**MW-41**  
**1902123-21 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 12:20**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902193 | 02/14/19 | 02/15/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 12:20**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 77.0 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 95.9 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 89.8 %    |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific



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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
02/19/19 10:43

**MW-42**  
**1902123-22 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 13:30**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902193 | 02/14/19 | 02/15/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 13:30**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 80.9 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 95.3 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 86.8 %    |  | 21-167 |          | "     | "        | "        | "      |       |

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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
02/19/19 10:43

**MW-43**  
**1902123-23 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 13:35**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902193 | 02/14/19 | 02/15/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 13:35**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 81.8 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 96.3 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 87.0 %    |  | 21-167 |          | "     | "        | "        | "      |       |

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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
02/19/19 10:43

**MW-44**  
**1902123-24 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 13:40**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902193 | 02/14/19 | 02/15/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 13:40**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 77.7 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 95.6 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 91.1 %    |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific



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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
02/19/19 10:43

**MW-45**  
**1902123-25 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 13:50**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902193 | 02/14/19 | 02/15/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 13:50**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 76.5 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 94.9 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 87.8 %    |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific



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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
02/19/19 10:43

**MW-46**  
**1902123-26 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 14:00**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902193 | 02/14/19 | 02/15/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 14:00**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 74.9 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 90.2 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 85.7 %    |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific

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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Brun

**Reported:**  
02/19/19 10:43

**MW-47**  
**1902123-27 (Water)**

**Summit Scientific**

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

Date Sampled: **02/13/19 14:10**

| Analyte         | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                 |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene         | ND     | 1.0       |  | ug/l  | 1        | 1902193 | 02/14/19 | 02/15/19 | EPA 8260B |       |
| Toluene         | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 2.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/13/19 14:10**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 81.3 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 99.5 %    |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 91.0 %    |  | 21-167 |          | "     | "        | "        | "      |       |

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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
02/19/19 10:43

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch 1902192 - EPA 5030 Water MS

##### Blank (1902192-BLK1)

Prepared: 02/14/19 Analyzed: 02/15/19

|                                  |      |     |      |      |  |      |  |        |  |  |
|----------------------------------|------|-----|------|------|--|------|--|--------|--|--|
| Benzene                          | ND   | 1.0 | ug/l |      |  |      |  |        |  |  |
| Toluene                          | ND   | 1.0 | "    |      |  |      |  |        |  |  |
| Ethylbenzene                     | ND   | 1.0 | "    |      |  |      |  |        |  |  |
| Xylenes (total)                  | ND   | 2.0 | "    |      |  |      |  |        |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 10.1 |     | "    | 13.3 |  | 75.9 |  | 23-173 |  |  |
| Surrogate: Toluene-d8            | 12.7 |     | "    | 13.3 |  | 95.0 |  | 20-170 |  |  |
| Surrogate: 4-Bromofluorobenzene  | 12.1 |     | "    | 13.3 |  | 90.8 |  | 21-167 |  |  |

##### LCS (1902192-BS1)

Prepared: 02/14/19 Analyzed: 02/15/19

|                                  |      |     |      |      |  |      |  |        |  |  |
|----------------------------------|------|-----|------|------|--|------|--|--------|--|--|
| Benzene                          | 31.3 | 1.0 | ug/l | 33.3 |  | 93.9 |  | 70-130 |  |  |
| Toluene                          | 30.8 | 1.0 | "    | 33.3 |  | 92.5 |  | 70-130 |  |  |
| Ethylbenzene                     | 35.2 | 1.0 | "    | 33.3 |  | 105  |  | 70-130 |  |  |
| m,p-Xylene                       | 64.5 | 2.0 | "    | 66.7 |  | 96.7 |  | 70-130 |  |  |
| o-Xylene                         | 31.5 | 1.0 | "    | 33.3 |  | 94.5 |  | 70-130 |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 10.5 |     | "    | 13.3 |  | 78.5 |  | 23-173 |  |  |
| Surrogate: Toluene-d8            | 13.1 |     | "    | 13.3 |  | 98.2 |  | 20-170 |  |  |
| Surrogate: 4-Bromofluorobenzene  | 11.4 |     | "    | 13.3 |  | 85.7 |  | 21-167 |  |  |

##### Matrix Spike (1902192-MS1)

Source: 1902123-01

Prepared: 02/14/19 Analyzed: 02/15/19

|                                  |      |     |      |      |    |      |  |        |  |  |
|----------------------------------|------|-----|------|------|----|------|--|--------|--|--|
| Benzene                          | 32.2 | 1.0 | ug/l | 33.3 | ND | 96.6 |  | 70-130 |  |  |
| Toluene                          | 32.0 | 1.0 | "    | 33.3 | ND | 95.9 |  | 70-130 |  |  |
| Ethylbenzene                     | 36.4 | 1.0 | "    | 33.3 | ND | 109  |  | 70-130 |  |  |
| m,p-Xylene                       | 66.7 | 2.0 | "    | 66.7 | ND | 100  |  | 70-130 |  |  |
| o-Xylene                         | 32.6 | 1.0 | "    | 33.3 | ND | 97.9 |  | 70-130 |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 10.7 |     | "    | 13.3 |    | 80.4 |  | 23-173 |  |  |
| Surrogate: Toluene-d8            | 12.9 |     | "    | 13.3 |    | 96.8 |  | 20-170 |  |  |
| Surrogate: 4-Bromofluorobenzene  | 12.0 |     | "    | 13.3 |    | 90.1 |  | 21-167 |  |  |

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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Brunns

**Reported:**  
02/19/19 10:43

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch 1902192 - EPA 5030 Water MS**

**Matrix Spike Dup (1902192-MSD1)**

Source: 1902123-01

Prepared: 02/14/19 Analyzed: 02/15/19

|                                  |      |     |      |      |    |      |        |      |    |  |
|----------------------------------|------|-----|------|------|----|------|--------|------|----|--|
| Benzene                          | 30.3 | 1.0 | ug/l | 33.3 | ND | 90.9 | 70-130 | 6.11 | 30 |  |
| Toluene                          | 30.8 | 1.0 | "    | 33.3 | ND | 92.6 | 70-130 | 3.57 | 30 |  |
| Ethylbenzene                     | 35.1 | 1.0 | "    | 33.3 | ND | 105  | 70-130 | 3.75 | 30 |  |
| m,p-Xylene                       | 64.8 | 2.0 | "    | 66.7 | ND | 97.3 | 70-130 | 2.81 | 30 |  |
| o-Xylene                         | 31.4 | 1.0 | "    | 33.3 | ND | 94.1 | 70-130 | 3.97 | 30 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 11.2 |     | "    | 13.3 |    | 84.1 | 23-173 |      |    |  |
| Surrogate: Toluene-d8            | 12.2 |     | "    | 13.3 |    | 91.5 | 20-170 |      |    |  |
| Surrogate: 4-Bromofluorobenzene  | 12.0 |     | "    | 13.3 |    | 89.7 | 21-167 |      |    |  |

**Batch 1902193 - EPA 5030 Water MS**

**Blank (1902193-BLK1)**

Prepared: 02/14/19 Analyzed: 02/15/19

|                                  |      |     |      |      |  |      |        |  |  |  |
|----------------------------------|------|-----|------|------|--|------|--------|--|--|--|
| Benzene                          | ND   | 1.0 | ug/l |      |  |      |        |  |  |  |
| Toluene                          | ND   | 1.0 | "    |      |  |      |        |  |  |  |
| Ethylbenzene                     | ND   | 1.0 | "    |      |  |      |        |  |  |  |
| Xylenes (total)                  | ND   | 2.0 | "    |      |  |      |        |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 10.8 |     | "    | 13.3 |  | 81.3 | 23-173 |  |  |  |
| Surrogate: Toluene-d8            | 12.9 |     | "    | 13.3 |  | 96.5 | 20-170 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 11.2 |     | "    | 13.3 |  | 84.3 | 21-167 |  |  |  |

**LCS (1902193-BS1)**

Prepared: 02/14/19 Analyzed: 02/15/19

|                                  |      |     |      |      |  |      |        |  |  |  |
|----------------------------------|------|-----|------|------|--|------|--------|--|--|--|
| Benzene                          | 31.2 | 1.0 | ug/l | 33.3 |  | 93.5 | 70-130 |  |  |  |
| Toluene                          | 31.1 | 1.0 | "    | 33.3 |  | 93.3 | 70-130 |  |  |  |
| Ethylbenzene                     | 34.1 | 1.0 | "    | 33.3 |  | 102  | 70-130 |  |  |  |
| m,p-Xylene                       | 64.0 | 2.0 | "    | 66.7 |  | 95.9 | 70-130 |  |  |  |
| o-Xylene                         | 31.0 | 1.0 | "    | 33.3 |  | 93.1 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 10.9 |     | "    | 13.3 |  | 81.5 | 23-173 |  |  |  |
| Surrogate: Toluene-d8            | 12.7 |     | "    | 13.3 |  | 95.0 | 20-170 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 11.9 |     | "    | 13.3 |  | 89.1 | 21-167 |  |  |  |

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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Brunns

**Reported:**  
02/19/19 10:43

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch 1902193 - EPA 5030 Water MS**

**Matrix Spike (1902193-MS1)**

Source: 1902123-21

Prepared: 02/14/19 Analyzed: 02/15/19

|                                  |      |     |      |      |    |      |        |  |  |  |
|----------------------------------|------|-----|------|------|----|------|--------|--|--|--|
| Benzene                          | 31.8 | 1.0 | ug/l | 33.3 | ND | 95.4 | 70-130 |  |  |  |
| Toluene                          | 31.2 | 1.0 | "    | 33.3 | ND | 93.7 | 70-130 |  |  |  |
| Ethylbenzene                     | 36.4 | 1.0 | "    | 33.3 | ND | 109  | 70-130 |  |  |  |
| m,p-Xylene                       | 66.3 | 2.0 | "    | 66.7 | ND | 99.5 | 70-130 |  |  |  |
| o-Xylene                         | 32.2 | 1.0 | "    | 33.3 | ND | 96.5 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 10.8 |     | "    | 13.3 |    | 81.3 | 23-173 |  |  |  |
| Surrogate: Toluene-d8            | 13.1 |     | "    | 13.3 |    | 98.0 | 20-170 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 11.9 |     | "    | 13.3 |    | 89.2 | 21-167 |  |  |  |

**Matrix Spike Dup (1902193-MSD1)**

Source: 1902123-21

Prepared: 02/14/19 Analyzed: 02/15/19

|                                  |      |     |      |      |    |      |        |       |    |  |
|----------------------------------|------|-----|------|------|----|------|--------|-------|----|--|
| Benzene                          | 32.7 | 1.0 | ug/l | 33.3 | ND | 98.1 | 70-130 | 2.73  | 30 |  |
| Toluene                          | 32.1 | 1.0 | "    | 33.3 | ND | 96.3 | 70-130 | 2.75  | 30 |  |
| Ethylbenzene                     | 35.8 | 1.0 | "    | 33.3 | ND | 108  | 70-130 | 1.55  | 30 |  |
| m,p-Xylene                       | 67.0 | 2.0 | "    | 66.7 | ND | 100  | 70-130 | 0.990 | 30 |  |
| o-Xylene                         | 32.3 | 1.0 | "    | 33.3 | ND | 96.8 | 70-130 | 0.248 | 30 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 11.9 |     | "    | 13.3 |    | 89.4 | 23-173 |       |    |  |
| Surrogate: Toluene-d8            | 13.3 |     | "    | 13.3 |    | 99.5 | 20-170 |       |    |  |
| Surrogate: 4-Bromofluorobenzene  | 12.3 |     | "    | 13.3 |    | 92.0 | 21-167 |       |    |  |

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

Project: Noble - Sylvester 31-5H5, 6H5

Project Number: [none]  
Project Manager: Brandon Bruns

**Reported:**  
02/19/19 10:43

### 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