# Third Quarter 2021 Groundwater Monitoring and Activities Summary Report

## Burton Flats Booster Station
## Eddy County, New Mexico
## #2R799

**APPROVED**
**By Nelson Velez at 10:41 am, Dec 30, 2021**

Review of Second Quarter 2021 Groundwater Monitoring and Activities Summary Report: Content satisfactory

1. Follow recommendations stated within the aforementioned report;
a. Continue quarterly groundwater monitoring and sampling at the monitoring locations
b. Continue monitoring and evaluation of the passive LNAPL skimmer and recovery system
c. Continue quarterly EFR event(s) at monitoring wells MW-1 and MW-4 during the third quarter 2021
d. Submit annual report no later than March 31, 2022

Prepared for:

dcp Midstream

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***Prepared by:***

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**December 8, 2021**

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# 1. Introduction

This report summarizes groundwater monitoring and remediation activities conducted during the Third quarter 2021 at the Burton Flats Booster Station (Site) in Eddy County, New Mexico (Figure 1). Tasman Geosciences (Tasman) performed these activities on behalf of DCP Midstream, LP (DCP). Field activities were conducted with the purpose of monitoring groundwater flow and quality conditions and assessing the presence of light non-aqueous phase liquid (LNAPL) hydrocarbons in the Site subsurface. Current Site conditions were evaluated from field data and laboratory analytical results collected on September 24, 2021.

# 2. Site Location and Background

The Site is located in the Fourth and Fifth Lots of Section 1, Township 21 South, Range 27 East (approximate coordinates 32.5195 degrees north and 104.1507 degrees west). It is approximately 3.4 miles northwest of the intersection of US Highway 62 and County Road 243. The area is sparsely populated, and land use is primarily associated with livestock grazing and oil and gas production and gathering.

Based on information included in historical Site investigation reports, a release of approximately 10 barrels (bbl) of oil and produced water occurred on October 5, 2009, of which approximately 8 bbls were recovered from within the tank secondary containment area. The C-141 report was submitted on October 12, 2009, and Site investigation and soil sampling within the release area occurred during the third quarter of 2009 and early fourth quarter of 2010 (BH-1 through BH-5). Elevated levels of petroleum hydrocarbons within the soil were encountered at depths of 20-feet below ground surface (bgs). Groundwater was encountered between 16-feet and 20-feet bgs during Site characterization activities. Subsequent to soil investigation efforts, four groundwater monitoring wells were installed around and down-gradient from the release area during the fourth quarter of 2011 (MW-1 through MW-4). Elevated petroleum hydrocarbon concentrations in soil were observed during well installation. Consequently, two additional soil borings were completed to a depth of 20 feet bgs in the suspected source area (SB 11-1 and SB 11-2). Monitoring well locations are shown in Figure 2.

Boring logs for the Site monitoring wells indicate that the subsurface geology contains unconsolidated fine-grained sand, silt, and clay sediments. This general characteristic has been utilized in evaluating the historical and current LNAPL behavior. Ongoing monitoring and sampling of the four (4) Site monitoring wells listed above has been conducted on a quarterly basis following installation.

# 3. Groundwater Monitoring

This section describes the field and laboratory activities performed during the third quarter 2021 groundwater monitoring event. Quarterly monitoring activities were conducted on September 24, 2021, which included Site-wide groundwater gauging, LNAPL measurements, and groundwater sampling. Figure 2 illustrates the groundwater monitoring network (MW-1 through MW-4) utilized to perform these activities at the Site.

## 3.1 Groundwater and LNAPL Elevation Monitoring

Groundwater and LNAPL levels are measured in order to evaluate hydraulic characteristics and provide information regarding seasonal fluctuations of groundwater and LNAPL elevations at the Site. During the third quarter 2021, groundwater levels were measured at four (4) Site monitoring well locations (MW-1 through MW-4).

Groundwater levels were 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 was subsequently converted to elevation (feet above mean sea level [AMSL]). Measured groundwater levels, LNAPL measurements, and calculated groundwater elevations are presented in Table 1.

A third quarter 2021 groundwater elevation contour map, included as Figure 3, indicates that the groundwater gradient at the Site trends to the northwest which is consistent with the previous four quarterly monitoring events, and with historical trends prior to second quarter 2016 at the Site. Although this is inconsistent with the trends between second quarter 2016 to first quarter 2019. It is suspected that an unchecked QA/QC error was made during the data entry in the second quarter 2016 and was not fixed during subsequent reports, leading to an irregular hydraulic gradient direction at the Site. The corrected groundwater elevation ranges, average elevation change from the previous monitoring event, and the calculated hydraulic gradient at the Site are summarized in the table below.

**Summary of Measured Hydraulic Parameters**

| | **Third Quarter 2021 (9/24/2021)** |
|---|---|
| Maximum Elevation (Well ID) | 3,177.27 ft (MW-3) |
| Minimum Elevation (Well ID) | 3,176.01 ft (MW-4*) |
| Average Change from Previous Monitoring Event | 0.10 ft |
| Hydraulic Gradient / (Well IDs) | 0.011 ft/ft (MW-3 to MW-4)<br>0.003 ft/ft (MW-3 to MW-1) |

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

LNAPL was observed at MW-4 (0.6 ft) during the third quarter 2021, which is an increase since the last measurable groundwater event in the second quarter 2021 (0.25 ft). Historically, the presence of LNAPL at this location has fluctuated since 2015.

## 3.2 Groundwater Quality Monitoring

Subsequent to recording groundwater level measurements at each monitoring well, groundwater samples were collected from three (3) of the four (4) locations (MW-1 through MW-3). A minimum of three well casing volumes of groundwater were purged from each monitoring well prior to collection of groundwater samples. Due to the presence of LNAPL observed at MW-4, no groundwater sample was collected at this location.

Groundwater samples were collected using disposable polyethylene bailers, placed in clean laboratory supplied containers, packed in an ice-filled cooler and maintained at approximately four (4) degrees Celsius (°C) for transportation to the laboratory. Groundwater samples were then shipped under chain-of-custody procedures to Pace Analytical laboratory in Mount Juliet, Tennessee (Pace).

Water quality samples were submitted for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (USEPA) Method 8260B and chloride by USEPA Method 9056A.

Table 2 summarizes BTEX and chloride concentrations in groundwater samples collected during the reporting period. Historical laboratory analytical results up to and including the September 2021 event are provided in Appendix A and the laboratory analytical report for the third quarter 2021 event is included in Appendix B. The laboratory analytical results are also displayed on Figure 4.

Third quarter 2021 field observations and analytical results for samples collected from MW-1 through MW-3 indicate the following:

- Benzene was detected in exceedance of the updated NMWQCC groundwater standard of 0.005 mg/L (effective 7/1/2020) in MW-1 (0.0403 mg/L, and 0.0448 mg/L [Duplicate]). MW-4 was not sampled due to the presence of LNAPL (0.60 ft). Benzene was not detected above the NMWQCC groundwater standard or reported detection limit at the remaining wells.
- Toluene was not detected above the NMWQCC groundwater standard of 1.00 mg/L or lab detection levels in any of the sampled Site monitoring wells.
- Ethylbenzene was not detected above the NMWQCC groundwater standard of 0.70 mg/L in any of the sampled Site monitoring wells.
- Total xylenes were not detected above the NMWQCC groundwater standard of 0.62 mg/L in any of the sampled Site monitoring wells.
- Chloride was detected in exceedance of the NMWQCC secondary maximum contaminant level (SMCL) guideline of 250 mg/L at all sampled monitoring well locations with concentrations ranging from 443 mg/L at MW-3 to 2,120 mg/L at MW-2.

## 3.3 Data Quality Assurance / Quality Control

A field duplicate sample (MW-1) was collected during the sampling event. The data were reviewed for compliance with the analytical method and the associated quality assurance/quality control (QA/QC) procedures. All samples were analyzed using the correct analytical methods and within the correct holding times. Chain of custody forms were in order and properly executed indicating that samples were received with no headspace. All data were reported using the correct method number and reporting units. QA/QC items of note for the third quarter 2021 include the following:

- Benzene was present below the laboratory reporting limit and above the method detections limit in the associated trip blank.

- The parent sample collected from MW-1 and the associated duplicate sample exhibited Benzene concentrations of 0.0403 mg/L and 0.0448 mg/L, respectively, yielding a relative percent difference (RPD) of 10.58 percent (%) which is within the target range of 20%.
- Subsequent to collection of the third quarter 2021 groundwater samples, the sample transport coolers were properly packaged with ice and shipped to Pace laboratory in Mount Juliet, Tennessee with priority overnight shipping. All coolers were received within laboratory temperature specifications as well as Chain of Custody (COC) forms properly executed.

Based on the data review, the QA/QC assessment indicates that overall data precision and accuracy are within acceptable limits.

## 4. Remediation Activities

Remediation activities conducted during the third quarter 2021 reporting period include vacuum enhanced fluid recovery (EFR) activities. EFR events were initiated in December 2014 and began on a routine frequency at monitoring wells MW-1 and MW-4. EFR events are scheduled to continue, pending observation of the effectiveness of the effort in addressing persistent free phase and dissolved phase petroleum hydrocarbons on-Site.

One third quarter 2021 EFR event was conducted at the site on September 24, 2021, which included application of high vacuum (utilizing a vacuum truck) at MW-1 and MW-4 through flexible hosing inserted into each well. The stingers were placed slightly below the current groundwater level to facilitate removal of groundwater, LNAPL, and vapors from the subsurface. Approximately 9 bbls (378 gallons) of fluid was recovered during the third quarter 2021 EFR event.

A passive LNAPL skimmer was installed in MW-4 in an effort to collect and dispose of free-phase liquids in between groundwater sampling and EFR events. Between the second and third quarter 2021 sampling and EFR events, the skimmer collected approximately 0.50 gallons of product. The passive LNAPL skimmer was reinstalled after the third quarter 2021 EFR event.

## 5. Conclusions

Evaluation of the third quarter 2021 monitoring data and historical information provides the following general observations:

- Groundwater elevations at the Site indicated an overall increase compared to the levels that were observed during the second quarter 2021 with an average increase of 0.10 ft per monitoring well.
- LNAPL was observed at monitoring well MW-4 during the third quarter 2021. The presence of LNAPL at this location has historically fluctuated since 2015.
- BTEX concentrations were detected in exceedance of NMWQCC maximum allowable concentration standards in MW-1 (0.0403 mg/L, and 0.0448 mg/L [Duplicate]).
- Chloride concentrations were above the NMWQCC SMCL guideline at all sampled Site monitoring wells.

# 6. Recommendations

Based on evaluation of third quarter 2021 and historical Site monitoring results, recommendations for future activities include:

- Continue quarterly groundwater monitoring and sampling at the monitoring locations illustrated on Figure 2.
- Continue monitoring and evaluation of the passive LNAPL skimmer and recovery system.
- Continue quarterly EFR event(s) at monitoring wells MW-1 and MW-4 during the fourth quarter 2021.

Tables

# TABLE 1
## THIRD QUARTER 2021
## SUMMARY OF GROUNDWATER ELEVATION DATA
## BURTON FLATS BOOSTER STATION
## EDDY COUNTY, NEW MEXICO

| Location | Date | Depth to Groundwater (feet) | Depth to Product (feet) | Free Phase Hydrocarbon Thickness (LNAPL) (feet) | Total Depth (feet) | TOC Elevation (feet amsl) (2) | Groundwater Elevation (*) (feet amsl) | Change in Groundwater Elevation Since Previous Event [1] (feet) |
|---|---|---|---|---|---|---|---|---|
| MW-1 | 12/11/2020 | 20.55 | | | 31.82 | 3197.65 | 3177.10 | -0.04 |
| MW-1 | 3/24/2021 | 20.52 | | | 31.82 | 3197.65 | 3177.13 | 0.03 |
| MW-1 | 6/18/2021 | 20.89 | | | 31.82 | 3197.65 | 3176.76 | -0.37 |
| MW-1 | 9/24/2021 | 20.84 | | | 31.82 | 3197.65 | 3176.81 | 0.05 |
| | | | | | | | | |
| MW-2 | 12/11/2020 | 22.80 | | | 32.87 | 3200.00 | 3177.20 | 0.04 |
| MW-2 | 3/24/2021 | 22.75 | | | 32.87 | 3200.00 | 3177.25 | 0.05 |
| MW-2 | 6/18/2021 | 23.01 | | | 32.87 | 3200.00 | 3176.99 | -0.26 |
| MW-2 | 9/24/2021 | 22.98 | | | 32.87 | 3200.00 | 3177.02 | 0.03 |
| | | | | | | | | |
| MW-3 | 12/11/2020 | 23.45 | | | 34.25 | 3200.84 | 3177.39 | -0.07 |
| MW-3 | 3/24/2021 | 23.42 | | | 34.25 | 3200.84 | 3177.42 | 0.03 |
| MW-3 | 6/18/2021 | 23.57 | | | 34.25 | 3200.84 | 3177.27 | -0.15 |
| MW-3 | 9/24/2021 | 23.57 | | | 34.25 | 3200.84 | 3177.27 | 0.00 |
| | | | | | | | | |
| MW-4 | 12/11/2020 | 24.85 | 24.60 | 0.25 | 31.93 | 3200.98 | 3176.33 | NC |
| MW-4 | 3/24/2021 | 24.73 | 24.50 | 0.23 | 31.93 | 3200.98 | 3176.43 | 0.10 |
| MW-4 | 6/18/2021 | 25.49 | 25.24 | 0.25 | 31.93 | 3200.98 | 3175.69 | -0.74 |
| MW-4 | 9/24/2021 | 25.45 | 24.85 | 0.60 | 31.93 | 3200.98 | 3176.01 | 0.32 |
| | | | | | | | Average change in groundwater elevation (6/18/21 to 9/24/21) | 0.10 |

Notes:

1- Changes in groundwater elevation calculated by subtracting the measurement collected during the previous monitoring event from the measurement collected during the most recent monitoring event.

2- The TOC elevation for MW-1 through MW-4 have been calculated based on a relative elevation re-survey conducted on 8/7/2019.

amsl = feet above mean sea level

TOC = top of casing

LNAPL - Light non-aqueous phase liquid

Groundwater elevation = (TOC Elevation - Measured Depth to Water)

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

Groundwater elevation = (TOC Elevation - Measured Depth to Water) + (LNAPL Thickness in Well * LNAPL Relative Density)
LNAPL relative density was calculated to be approximately 0.792 grams per cubic centimeter ($g/cm^3$)

NM = Not measured.

NC= Not calculated.

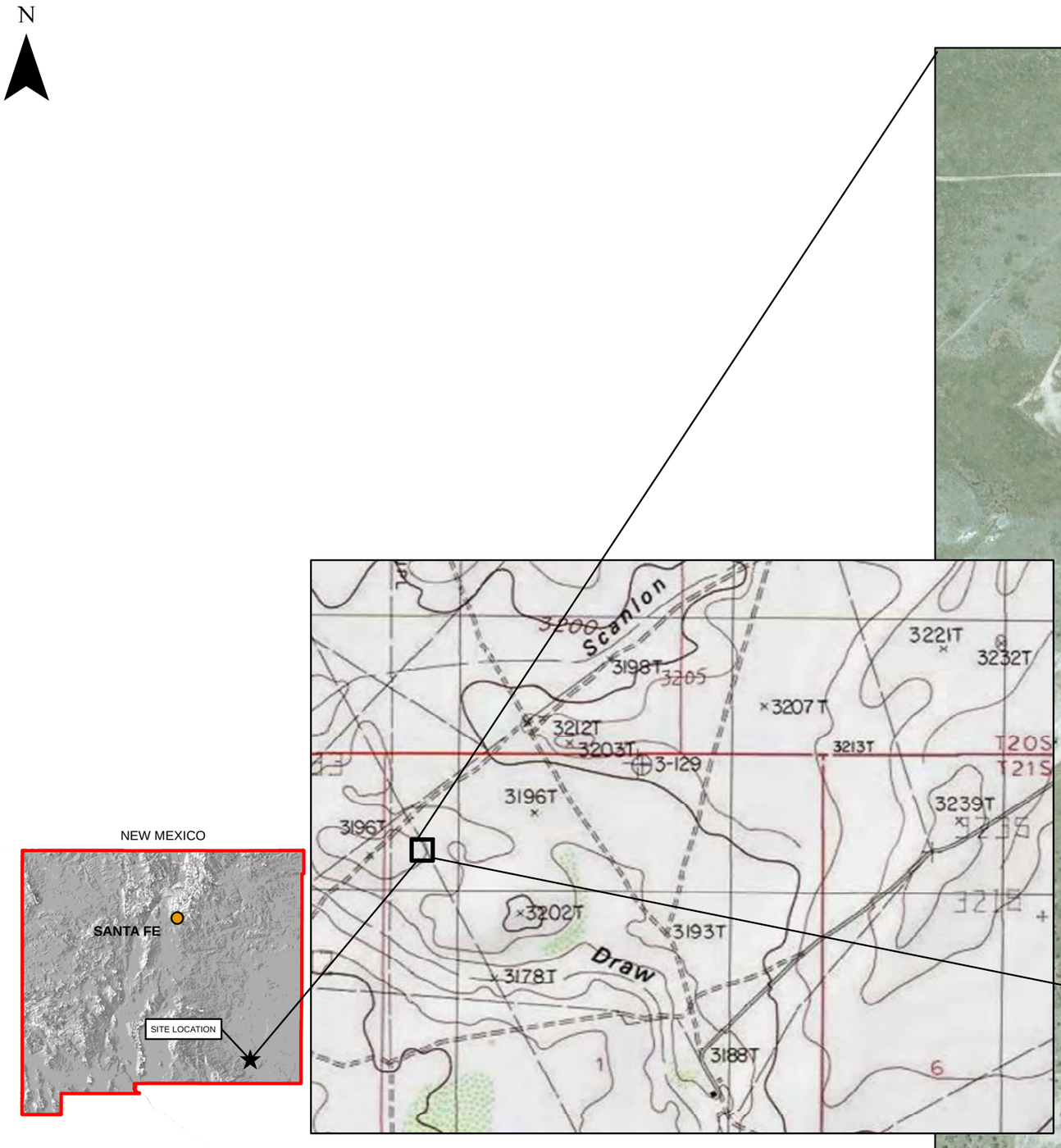
**TABLE 2**
**THIRD QUARTER 2021**
**SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER**
**BURTON FLATS BOOSTER STATION**
**EDDY COUNTY, NEW MEXICO**

| Location Identification | Sample Date | Benzene (mg/l) | Toluene (mg/l) | Ethylbenzene (mg/l) | Total Xylenes (mg/l) | Chlorides (mg/l) | Comments |
|---|---|---|---|---|---|---|---|
| **NMWQCC Groundwater Standards (mg/L)** | | **0.005** | **1.00** | **0.70** | **0.62** | **250** | |
| MW-1 | 9/24/2021 | **0.0403** | <0.00100 | 0.0138 | 0.00203 J | **814** | Duplicate Sample Collected |
| MW-1 (Duplicate) | 9/24/2021 | **0.0448** | <0.00100 | 0.0170 | 0.00289 J | **868** | |
| MW-2 | 9/24/2021 | <0.00100 | <0.00100 | <0.00100 | <0.00300 | **2,120** | |
| MW-3 | 9/24/2021 | 0.000125 J | <0.00100 | <0.00100 | <0.00300 | **443** | |
| MW-4 | 9/24/2021 | LNAPL | | | | | LNAPL |
| Trip Blank | 9/24/2021 | 0.000372 J | <0.00100 | <0.00100 | <0.00100 | NA | |

Notes:
**Bold red** values indicate an exceedance of the associated NMWQCC standard (Effective 7/1/2020) or, for chlorides, the secondary maximum contaminant level (SMC which has been established as a guideline in the National Secondary Drinking Water Regulations.
NMWQCC = New Mexico Water Quality Control Commission
LNAPL = Light Non-Aqueous Phase Liquid
NA = Not Analyzed
J = The identification of the analyte is acceptable, the reported value is an estimate.
mg/L = milligrams per liter

Figures

N

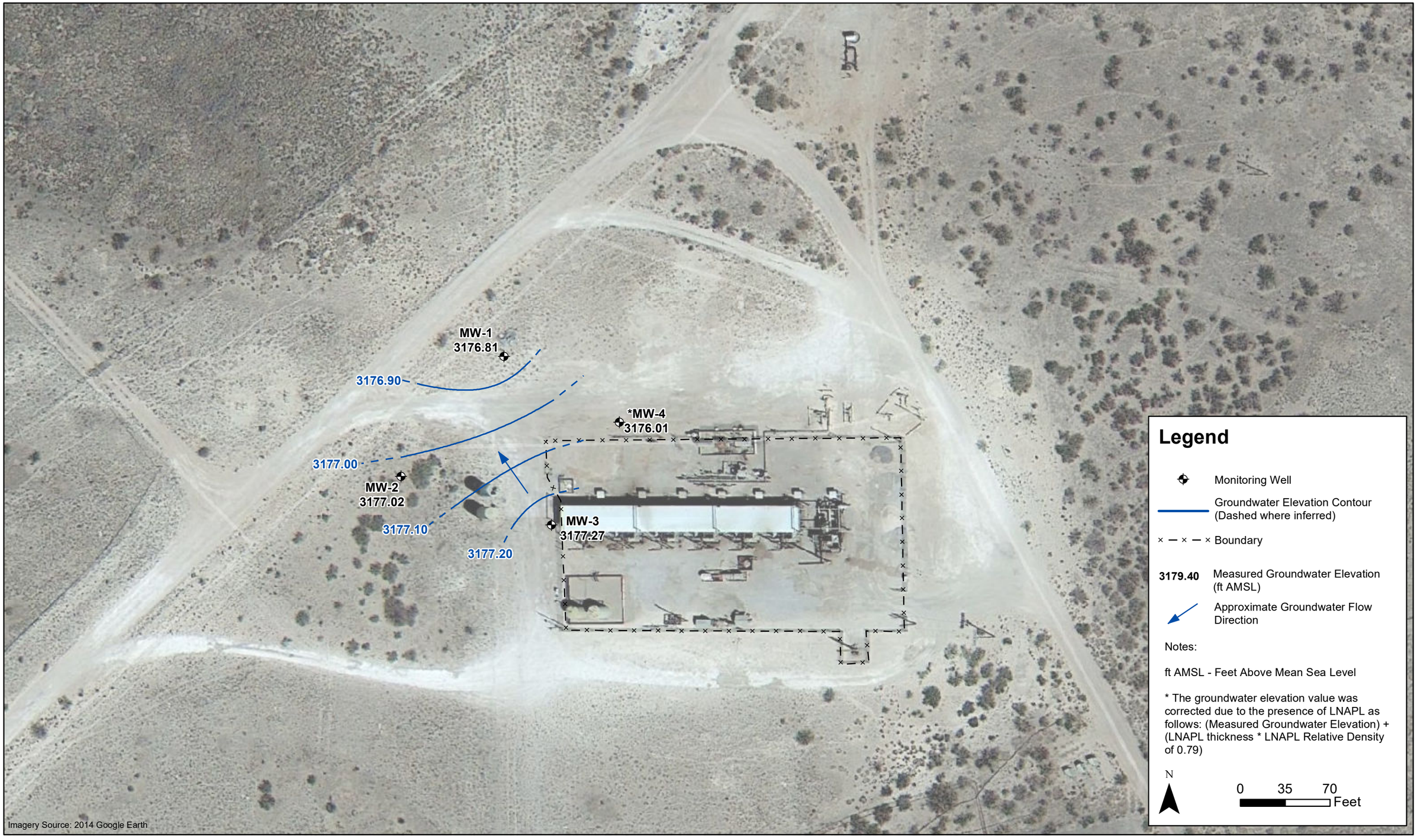




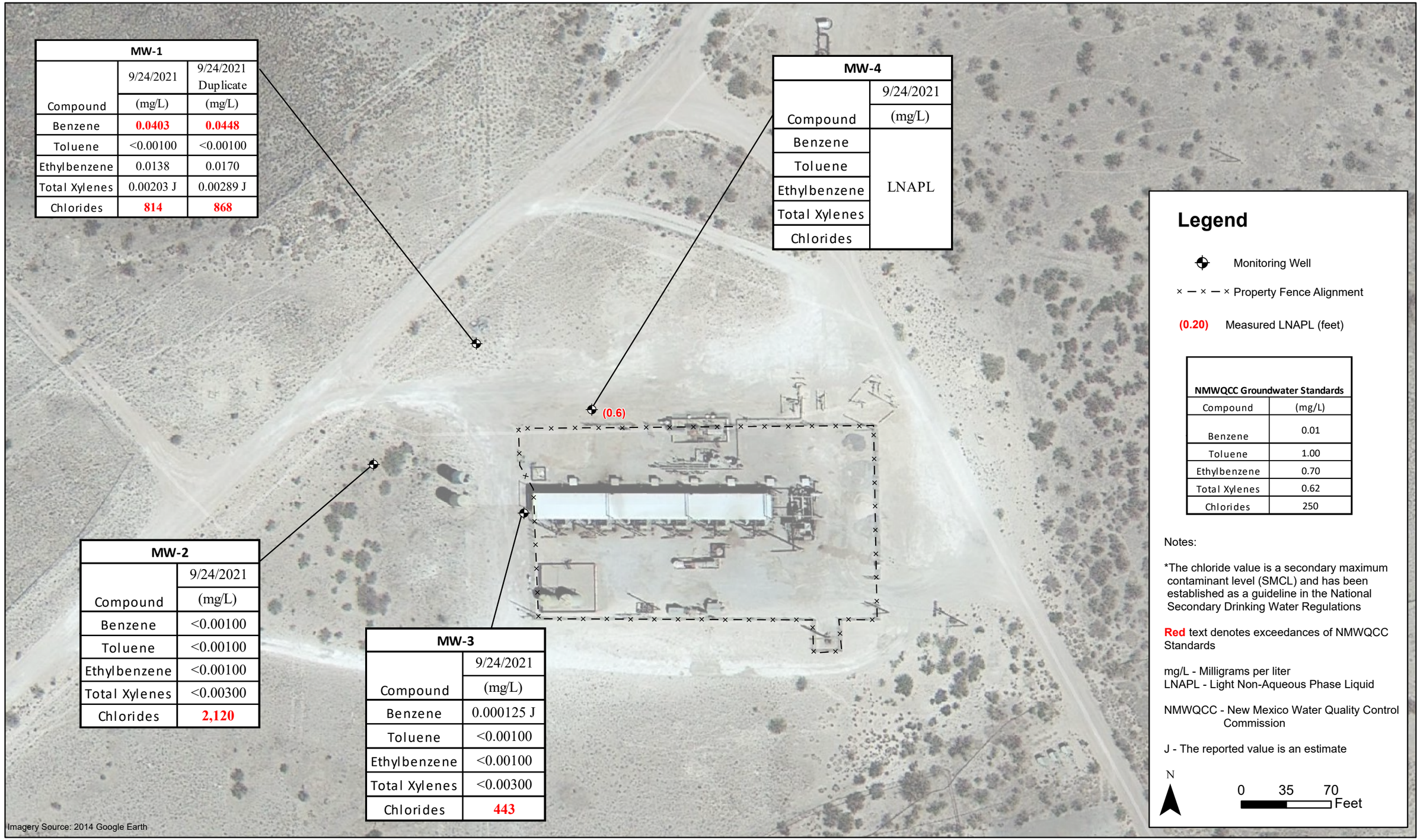


| | | | |
|---|---|---|---|
| DATE: April 2015<br>DESIGNED BY: T. Johansen<br>DRAWN BY: D. Arnold | TASMAN GEOSCIENCES<br>Tasman Geosciences, LLC<br>6899 Pecos Street - Unit C<br>Denver, CO 80221 | **DCP Midstream**<br>**Burton Flats Booster Station**<br>Lots 4 and 5, Section 1, Township 21 South, Range 27 East<br>Eddy County, New Mexico | Site Location Map | Figure 1 |


| | | | |
|---|---|---|---|
| DATE: December 2019<br>DESIGNED BY: B. Humphrey<br>DRAWN BY: L. Martin | TASMAN GEOSCIENCES<br>Tasman Geosciences, Inc.<br>6855 W. 119th Ave<br>Broomfield, CO 80020 | **DCP Midstream**<br>**Burton Flats Booster Station**<br>Third Quarter 2021 Groundwater Monitoring Summary Report | Site Map with Monitoring Well Locations | Figure 2 |




| | | | | |
|---|---|---|---|---|
| DATE: October 2021<br>DESIGNED BY: B. Humphrey<br>DRAWN BY: J. Clonts | TASMAN GEOSCIENCES<br>Tasman Geosciences, Inc.<br>6855 W. 119th Ave<br>Broomfield, CO 80020 | **DCP Midstream**<br>**Burton Flats Booster Station**<br>Third Quarter 2021 Groundwater Monitoring Summary Report | Groundwater Elevation Contour Map (September 24, 2021) | Figure 3 |




| MW-1 | | |
|---|---|---|
| Compound | 9/24/2021 (mg/L) | 9/24/2021 Duplicate (mg/L) |
| Benzene | **0.0403** | **0.0448** |
| Toluene | <0.00100 | <0.00100 |
| Ethylbenzene | 0.0138 | 0.0170 |
| Total Xylenes | 0.00203 J | 0.00289 J |
| Chlorides | **814** | **868** |

| MW-4 | |
|---|---|
| Compound | 9/24/2021 (mg/L) |
| Benzene | LNAPL |
| Toluene | |
| Ethylbenzene | |
| Total Xylenes | |
| Chlorides | |

| MW-2 | |
|---|---|
| Compound | 9/24/2021 (mg/L) |
| Benzene | <0.00100 |
| Toluene | <0.00100 |
| Ethylbenzene | <0.00100 |
| Total Xylenes | <0.00300 |
| Chlorides | **2,120** |

| MW-3 | |
|---|---|
| Compound | 9/24/2021 (mg/L) |
| Benzene | 0.000125 J |
| Toluene | <0.00100 |
| Ethylbenzene | <0.00100 |
| Total Xylenes | <0.00300 |
| Chlorides | **443** |

## Legend

Monitoring Well

× — × — × Property Fence Alignment

(0.20) Measured LNAPL (feet)

| NMWQCC Groundwater Standards | |
|---|---|
| Compound | (mg/L) |
| Benzene | 0.01 |
| Toluene | 1.00 |
| Ethylbenzene | 0.70 |
| Total Xylenes | 0.62 |
| Chlorides | 250 |

Notes:

*The chloride value is a secondary maximum contaminant level (SMCL) and has been established as a guideline in the National Secondary Drinking Water Regulations

**Red** text denotes exceedances of NMWQCC Standards

mg/L - Milligrams per liter
LNAPL - Light Non-Aqueous Phase Liquid

NMWQCC - New Mexico Water Quality Control Commission

J - The reported value is an estimate

N

0 35 70 Feet

DATE: October 2021
DESIGNED BY: B. Humphrey
DRAWN BY: J. Clonts

TASMAN GEOSCIENCES

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

**DCP Midstream**
**Burton Flats Booster Station**
Third Quarter 2021 Groundwater Monitoring Summary Report

Analytical Results Map
(September 24, 2021)

Figure 4

# Appendix A

## Historical Analytical Results

# APPENDIX A
## HISTORICAL ANALYTICAL RESULTS
## BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
## BURTON FLATS BOOSTER STATION
## EDDY COUNTY, NEW MEXICO

| Location Identification | Sample Date | Benzene (mg/l) | Toluene (mg/l) | Ethylbenzene (mg/l) | Total Xylenes (mg/l) | Chlorides (mg/l) | Comments |
|---|---|---|---|---|---|---|---|
| **NMWQCC Groundwater Standards (mg/L)** | | **0.005** | **1.00** | **0.70** | **0.62** | **250** | |
| MW-1 | 12/14/2011 | **0.140** | 0.0034 | 0.200 | 0.111 | **665** | Duplicate sample collected |
| MW-1 | 4/26/2012 | **0.153** | <0.001 | 0.229 | 0.0073 | **584** | |
| MW-1 | 6/20/2012 | **0.0967** | <0.001 | 0.284 | 0.0474 | **651** | Duplicate sample collected |
| MW-1 | 9/26/2012 | **0.0615** | <0.001 | 0.0803 | 0.0015 | **590** | |
| MW-1 | 12/5/2012 | **0.020** | <0.001 | 0.17 | 0.037 | **599** | |
| MW-1 | 2/21/2013 | 0.0021 | <0.001 | 0.0058 | <0.003 | **668** | Duplicate sample collected |
| MW-1 | 6/3/2013 | 0.0049 | <0.001 | 0.0048 | <0.001 | **703** | Duplicate sample collected |
| MW-1 | 9/11/2013 | LNAPL | | | | | |
| MW-1 | 12/3/2013 | LNAPL | | | | | |
| MW-1 | 2/26/2014 | LNAPL | | | | | |
| MW-1 | 6/2/2014 | LNAPL | | | | | |
| MW-1 | 9/24/2014 | Third Quarter 2014 Sampling Suspended - Regional Flooding | | | | | |
| MW-1 | 12/3/2014 | LNAPL | | | | | |
| MW-1 | 2/27/2015 | LNAPL | | | | | |
| MW-1 | 6/2/2015 | LNAPL | | | | | |
| MW-1 | 8/31/2015 | LNAPL | | | | | |
| MW-1 | 12/15/2015 | LNAPL | | | | | |
| MW-1 | 3/21/2016 | **0.0450** | <0.0010 | 0.080 | 0.010 | **685** | |
| MW-1 | 6/20/2016 | **0.082** | <0.0010 | 0.10 | 0.0072 | **700** | |
| MW-1 | 9/26/2016 | **0.035** | <0.0050 | 0.033 | <0.015 | **705** | |
| MW-1 | 12/19/2016 | **0.051** | <0.0010 | 0.040 | 0.0035 | **769** | |
| MW-1 | 3/6/2017 | **0.044** | <0.0010 | 0.025 | 0.0012 | **733** | Duplicate sample collected |
| MW-1 (Duplicate) | 3/6/2017 | **0.054** | <0.0010 | 0.035 | 0.0014 | **740** | |
| MW-1 | 6/19/2017 | **0.043** | <0.0010 | 0.020 | <0.0010 | **671** | |
| MW-1 | 9/27/2017 | 0.00867 | <0.0010 | 0.00359 | <0.0030 | **649** | Duplicate Sample Collected |
| MW-1 (Duplicate) | 9/27/2017 | 0.00958 | <0.0010 | 0.00389 | <0.0030 | **608** | |
| MW-1 | 12/18/2017 | **0.0204** | <0.0010 | 0.00522 | <0.0030 | **679** | Duplicate Sample Collected |
| MW-1 (Duplicate) | 12/18/2017 | **0.0179** | <0.0010 | 0.00502 | <0.0030 | **778** | |
| MW-1 | 3/12/2018 | **0.0299** | <0.0010 | 0.0199 | 0.00114 J | **764** | Duplicate Sample Collected |
| MW-1 (Duplicate) | 3/12/2018 | **0.0399** | <0.0010 | 0.0230 | <0.0030 | **770** | |
| MW-1 | 6/25/2018 | **0.0255** | <0.0010 | 0.0255 | <0.0030 | **623** | Duplicate Sample Collected |
| MW-1 (Duplicate) | 6/25/2018 | **0.0281** | <0.0010 | 0.0277 | <0.0030 | **632** | |
| MW-1 | 9/17/2018 | **0.0115** | <0.0010 | 0.0063 | <0.0030 | **668** | Duplicate Sample Collected |
| MW-1 (Duplicate) | 9/17/2018 | **0.0105** | <0.0010 | 0.0060 | <0.0030 | **641** | |
| MW-1 | 12/10/2018 | 0.000641 J | <0.0010 | 0.00115 | <0.0030 | **1,180** | Duplicate Sample Collected |
| MW-1 (Duplicate) | 12/10/2018 | 0.000712 J | <0.0010 | 0.00126 | <0.0030 | **1,230** | |
| MW-1 | 3/21/2019 | 0.0018 | <0.0010 | 0.00159 | <0.0030 | **667** | Duplicate Sample Collected |
| MW-1 (Duplicate) | 3/21/2019 | 0.0026 | <0.0010 | 0.00144 | <0.0030 | **680** | |
| MW-1 | 6/13/2019 | **0.0316** | <0.0010 | 0.0232 | <0.0030 | **774** | Duplicate Sample Collected |
| MW-1 (Duplicate) | 6/13/2019 | **0.0294** | <0.0010 | 0.0216 | <0.0030 | **768** | |
| MW-1 | 9/17/2019 | 0.00456 | <0.0010 | 0.00219 | <0.0030 | **654** | Duplicate Sample Collected |
| MW-1 (Duplicate) | 9/17/2019 | 0.0059 | <0.0010 | 0.00272 | <0.0030 | **768** | |
| MW-1 | 12/9/2019 | 0.00713 | <0.0010 | 0.00789 | 0.00161 J | **681** | Duplicate Sample Collected |
| MW-1 (Duplicate) | 12/9/2019 | 0.00772 | <0.0010 | 0.00827 | 0.00166 J | **684** | |
| MW-1 | 6/19/2020 | **0.02780** | <0.0010 | 0.01900 | 0.00160 J | **908** | Duplicate Sample Collected |
| MW-1 (Duplicate) | 6/19/2020 | **0.02770** | <0.0010 | 0.01870 | 0.00139 J | **927** | |
| MW-1 | 9/15/2020 | **0.03230** | <0.00100 | 0.01110 | 0.000948 J | **771** | Duplicate Sample Collected |
| MW-1 (Duplicate) | 9/15/2020 | **0.03370** | <0.00100 | 0.01260 | 0.00111 J | **751** | |
| MW-1 | 12/11/2020 | **0.0439** | <0.00100 | 0.0247 | 0.00770 | **743** | Duplicate Sample Collected |
| MW-1 (Duplicate) | 12/11/2020 | **0.0445** | <0.00100 | 0.0248 | 0.00769 | **734** | |

# APPENDIX A
## HISTORICAL ANALYTICAL RESULTS
## BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
## BURTON FLATS BOOSTER STATION
## EDDY COUNTY, NEW MEXICO

| Location Identification | Sample Date | Benzene (mg/l) | Toluene (mg/l) | Ethylbenzene (mg/l) | Total Xylenes (mg/l) | Chlorides (mg/l) | Comments |
|---|---|---|---|---|---|---|---|
| **NMWQCC Groundwater Standards (mg/L)** | | **0.005** | **1.00** | **0.70** | **0.62** | **250** | |
| MW-1 | 3/24/2021 | **0.0386** | <0.00100 | 0.0224 | 0.00599 | **786** | Duplicate Sample Collected |
| MW-1 (Duplicate) | 3/24/2021 | **0.0323** | <0.00100 | 0.0188 | 0.00456 | **781** | |
| MW-1 | 6/18/2021 | **0.0356** | <0.00100 | 0.0127 | 0.00263 J | **848** | Duplicate Sample Collected |
| MW-1 (Duplicate) | 6/18/2021 | **0.0375** | <0.00100 | 0.0136 | 0.00279 J | **844** | |
| MW-1 | 9/24/2021 | **0.0403** | <0.00100 | 0.0138 | 0.00203 J | **814** | Duplicate Sample Collected |
| MW-1 (Duplicate) | 9/24/2021 | **0.0448** | <0.00100 | 0.0170 | 0.00289 J | **868** | |
| | | | | | | | |
| MW-2 | 12/14/2011 | <0.001 | <0.001 | <0.001 | <0.003 | **1,170** | |
| MW-2 | 4/26/2012 | <0.001 | <0.001 | <0.001 | <0.003 | **1,040** | |
| MW-2 | 6/20/2012 | <0.001 | <0.001 | <0.001 | <0.003 | **1,150** | |
| MW-2 | 9/26/2012 | <0.001 | <0.001 | <0.001 | <0.003 | **1,130** | |
| MW-2 | 12/5/2012 | <0.001 | <0.001 | <0.001 | <0.003 | **1,120** | Duplicate sample collected |
| MW-2 | 2/21/2013 | <0.001 | <0.001 | <0.001 | <0.003 | **1,250** | |
| MW-2 | 6/3/2013 | <0.001 | <0.001 | <0.001 | <0.001 | **1,150** | |
| MW-2 | 9/11/2013 | <0.001 | <0.001 | <0.001 | <0.001 | **1,410** | Duplicate sample collected |
| MW-2 | 12/3/2013 | <0.001 | <0.001 | <0.001 | <0.001 | **1,120** | Duplicate sample collected |
| MW-2 | 2/26/2014 | <0.001 | <0.001 | <0.001 | <0.001 | **1,220** | Duplicate sample collected |
| MW-2 (Duplicate) | 2/26/2014 | <0.001 | <0.001 | <0.001 | <0.001 | **1,270** | |
| MW-2 | 6/2/2014 | <0.001 | <0.001 | <0.001 | <0.001 | **1,270** | Duplicate sample collected |
| MW-2 (Duplicate) | 6/2/2014 | <0.001 | <0.001 | <0.001 | <0.001 | **1,290** | |
| MW-2 | 9/24/2014 | Third Quarter 2014 Sampling Suspended - Regional Flooding | | | | | |
| MW-2 | 12/3/2014 | <0.001 | <0.001 | <0.001 | <0.001 | **1,300** | Duplicate sample collected |
| MW-2 (Duplicate) | 12/3/2014 | <0.001 | <0.001 | <0.001 | <0.001 | **1,410** | |
| MW-2 | 2/27/2015 | <0.001 | <0.001 | <0.001 | <0.003 | **1,440** | Duplicate sample collected |
| MW-2 (Duplicate) | 2/27/2015 | <0.001 | <0.001 | <0.001 | <0.003 | **1,440** | |
| MW-2 | 6/2/2015 | <0.001 | <0.001 | <0.001 | <0.003 | **1,650** | Duplicate sample collected |
| MW-2 (Duplicate) | 6/2/2015 | <0.001 | <0.001 | <0.001 | <0.003 | **1,810** | |
| MW-2 | 8/31/2015 | <0.001 | <0.001 | <0.001 | <0.003 | **1,420** | Duplicate sample collected |
| MW-2 (Duplicate) | 8/31/2015 | <0.001 | <0.001 | <0.001 | <0.003 | **1,440** | |
| MW-2 | 12/15/2015 | <0.001 | <0.001 | <0.001 | <0.003 | **1,350** | Duplicate sample collected |
| MW-2 (Duplicate) | 12/15/2015 | <0.001 | <0.001 | <0.001 | <0.003 | **1,350** | |
| MW-2 | 3/21/2016 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **1,300** | |
| MW-2 | 6/20/2016 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **1,280** | |
| MW-2 | 9/26/2016 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **1,310** | |
| MW-2 | 12/19/2016 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **1,560** | Duplicate sample collected |
| MW-2 (Duplicate) | 12/19/2016 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **1,350** | |
| MW-2 | 3/6/2017 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | **1,210** | |
| MW-2 | 6/19/2017 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | **1,480** | |
| MW-2 | 9/27/2017 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **1,530** | |
| MW-2 | 12/18/2017 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **1,300** | |
| MW-2 | 3/12/2018 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **1,290** | |
| MW-2 | 6/25/2018 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **1,490** | |
| MW-2 | 9/17/2018 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **2,130** | |
| MW-2 | 12/10/2018 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **3,780** | |
| MW-2 | 3/21/2019 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **1,380** | |
| MW-2 | 6/13/2019 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **1,860** | |
| MW-2 | 9/17/2019 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **2,380** | |
| MW-2 | 12/9/2019 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **1,870** | |
| MW-2 | 6/19/2020 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **2,220** | |
| MW-2 | 9/15/2020 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **2,650** | |
| MW-2 | 12/11/2020 | <0.00100 | <0.00100 | <0.00100 | <0.00300 | **2,160** | |

# APPENDIX A
## HISTORICAL ANALYTICAL RESULTS
## BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
## BURTON FLATS BOOSTER STATION
## EDDY COUNTY, NEW MEXICO

| Location Identification | Sample Date | Benzene (mg/l) | Toluene (mg/l) | Ethylbenzene (mg/l) | Total Xylenes (mg/l) | Chlorides (mg/l) | Comments |
|---|---|---|---|---|---|---|---|
| **NMWQCC Groundwater Standards (mg/L)** | | **0.005** | **1.00** | **0.70** | **0.62** | **250** | |
| MW-2 | 3/24/2021 | 0.000195 J | <0.00100 | <0.00100 | <0.00300 | **1,860** | |
| MW-2 | 6/18/2021 | <0.00100 | <0.00100 | <0.00100 | <0.00300 | **2,120** | |
| MW-2 | 9/24/2021 | <0.00100 | <0.00100 | <0.00100 | <0.00300 | **2,120** | |
| | | | | | | | |
| MW-3 | 12/14/2011 | <0.001 | <0.001 | <0.001 | <0.003 | **426** | |
| MW-3 | 4/26/2012 | <0.001 | <0.001 | <0.001 | <0.003 | **406** | Duplicate sample collected |
| MW-3 | 6/20/2012 | <0.001 | <0.001 | <0.001 | <0.003 | **435** | |
| MW-3 | 9/26/2012 | <0.001 | <0.001 | 0.00057 | <0.003 | **447** | Duplicate sample collected |
| MW-3 | 12/5/2012 | <0.001 | <0.001 | <0.001 | <0.003 | **444** | |
| MW-3 | 2/21/2013 | <0.001 | <0.001 | <0.001 | <0.003 | **503** | |
| MW-3 | 6/12/2013 | <0.001 | <0.001 | <0.001 | <0.001 | **474** | |
| MW-3 | 9/11/2013 | <0.001 | <0.001 | <0.001 | <0.001 | **589** | |
| MW-3 | 12/3/2013 | <0.001 | <0.001 | <0.001 | <0.001 | **432** | |
| MW-3 | 2/26/2014 | <0.001 | <0.001 | <0.001 | <0.001 | **484** | |
| MW-3 | 6/2/2014 | <0.001 | <0.001 | <0.001 | <0.001 | **519** | |
| MW-3 | 9/24/2014 | Third Quarter 2014 Sampling Suspended - Regional Flooding | | | | | |
| MW-3 | 12/3/2014 | <0.001 | <0.001 | <0.001 | <0.001 | **294** | |
| MW-3 | 2/27/2015 | <0.001 | <0.001 | <0.001 | <0.003 | **301** | |
| MW-3 | 6/2/2015 | <0.001 | <0.001 | <0.001 | <0.003 | **384** | |
| MW-3 | 8/31/2015 | <0.001 | <0.001 | <0.001 | <0.003 | **386** | |
| MW-3 | 12/15/2015 | <0.001 | <0.001 | <0.001 | <0.003 | **568** | |
| MW-3 | 3/21/2016 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **484** | Duplicate sample collected |
| MW-3(Duplicate) | 3/21/2016 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **526** | |
| MW-3 | 6/20/2016 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **414** | Duplicate sample collected |
| MW-3 (Duplicate) | 6/20/2016 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **383** | |
| MW-3 | 9/26/2016 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **320** | Duplicate sample collected |
| MW-3 (Duplicate) | 9/26/2016 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **324** | |
| MW-3 | 12/19/2016 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **285** | |
| MW-3 | 3/6/2017 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | **466** | |
| MW-3 | 6/19/2017 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 247 | |
| MW-3 (Duplicate) | 6/19/2017 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | **251** | |
| MW-3 | 9/27/2017 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **269** | |
| MW-3 | 12/18/2017 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **310** | |
| MW-3 | 3/12/2018 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **253** | |
| MW-3 | 6/25/2018 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **258** | |
| MW-3 | 9/17/2018 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **277** | |
| MW-3 | 12/10/2018 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **429** | |
| MW-3 | 3/21/2019 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **309** | |
| MW-3 | 6/13/2019 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | **369** | |
| MW-3 | 9/17/2019 | 0.00426 | <0.0010 | <0.0010 | <0.0030 | **333** | |
| MW-3 | 12/9/2019 | 0.00216 | <0.0010 | <0.0010 | <0.0030 | **339** | |
| MW-3 | 6/19/2020 | 0.000240 J | <0.0010 | <0.0010 | <0.0030 | **372** | |
| MW-3 | 9/15/2020 | 0.000102 J | <0.0010 | <0.0010 | <0.0030 | **403** | |
| MW-3 | 12/11/2020 | <0.00100 | <0.00100 | <0.00100 | <0.00300 | **420** | |
| MW-3 | 3/24/2021 | 0.000352 J | 0.000345 J | <0.00100 | <0.00300 | **410** | |
| MW-3 | 6/18/2021 | <0.00100 | <0.00100 | <0.00100 | <0.00300 | **436** | |
| MW-3 | 9/24/2021 | 0.000125 J | <0.00100 | <0.00100 | <0.00300 | **443** | |

# APPENDIX A
## HISTORICAL ANALYTICAL RESULTS
## BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
## BURTON FLATS BOOSTER STATION
## EDDY COUNTY, NEW MEXICO

| Location Identification | Sample Date | Benzene (mg/l) | Toluene (mg/l) | Ethylbenzene (mg/l) | Total Xylenes (mg/l) | Chlorides (mg/l) | Comments |
|---|---|---|---|---|---|---|---|
| **NMWQCC Groundwater Standards (mg/L)** | | **0.005** | **1.00** | **0.70** | **0.62** | **250** | |
| MW-4 | 4/26/2012 | LNAPL | | | | | |
| MW-4 | 6/20/2012 | LNAPL | | | | | |
| MW-4 | 9/26/2012 | LNAPL | | | | | |
| MW-4 | 12/5/2012 | LNAPL | | | | | |
| MW-4 | 2/21/2013 | LNAPL | | | | | |
| MW-4 | 6/3/2013 | LNAPL | | | | | |
| MW-4 | 9/11/2013 | LNAPL | | | | | |
| MW-4 | 12/3/2013 | LNAPL | | | | | |
| MW-4 | 2/26/2014 | LNAPL | | | | | |
| MW-4 | 6/2/2014 | LNAPL | | | | | |
| MW-4 | 9/24/2014 | Third Quarter 2014 Sampling Suspended - Regional Flooding | | | | | |
| MW-4 | 12/3/2014 | LNAPL | | | | | |
| MW-4 | 2/27/2015 | LNAPL | | | | | |
| MW-4 | 6/2/2015 | LNAPL | | | | | |
| MW-4 | 8/31/2015 | LNAPL | | | | | |
| MW-4 | 12/15/2015 | LNAPL | | | | | |
| MW-4 | 3/21/2016 | **0.58** | 0.17 | 0.48 | **0.90** | **10,700** | |
| MW-4 | 6/20/2016 | **0.46** | 0.16 | 0.64 | **1.2** | **9,700** | |
| MW-4 | 9/26/2016 | **0.51** | 0.14 | 0.54 | **1.0** | **7,780** | |
| MW-4 | 12/19/2016 | **0.37** | 0.12 | 0.56 | **0.99** | **7,530** | |
| MW-4 | 3/6/2017 | **0.37** | 0.086 | 0.49 | **0.8** | **6,370** | |
| MW-4 | 6/19/2017 | **0.14** | 0.035 | 0.46 | 0.50 | **6,420** | LNAPL (0.30 feet) |
| MW-4 | 9/27/2017 | **0.104** | 0.0718 | 0.706 | **1.12** | **7,520** | LNAPL (0.24 feet) |
| MW-4 | 12/18/2017 | **0.433** | 0.0979 | 0.570 | **1.12** | **6,450** | LNAPL (0.10 feet) |
| MW-4 | 3/12/2018 | **0.293** | 0.0641 | 0.319 | **0.627** | **6,160** | |
| MW-4 | 6/25/2018 | LNAPL | | | | | LNAPL (0.18 feet) |
| MW-4 | 9/17/2018 | LNAPL | | | | | LNAPL (0.5 feet) |
| MW-4 | 12/10/2018 | LNAPL | | | | | LNAPL (0.59 feet) |
| MW-4 | 3/21/2019 | LNAPL | | | | | LNAPL (0.65 feet) |
| MW-4 | 6/13/2019 | LNAPL | | | | | LNAPL (0.55 feet) |
| MW-4 | 9/17/2019 | LNAPL | | | | | LNAPL (0.23 feet) |
| MW-4 | 12/9/2019 | LNAPL | | | | | LNAPL (0.39 feet) |
| MW-4 | 6/19/2020 | LNAPL | | | | | LNAPL (0.45 feet) |
| MW-4 | 9/15/2020 | LNAPL | | | | | LNAPL (0.20 feet) |
| MW-4 | 12/11/2020 | LNAPL | | | | | LNAPL (0.25 feet) |
| MW-4 | 3/24/2021 | LNAPL | | | | | LNAPL |
| MW-4 | 6/18/2021 | LNAPL | | | | | LNAPL (0.25 feet) |
| MW-4 | 9/24/2021 | LNAPL | | | | | LNAPL (0.60 feet) |

# APPENDIX A
## HISTORICAL ANALYTICAL RESULTS
## BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
## BURTON FLATS BOOSTER STATION
## EDDY COUNTY, NEW MEXICO

| Location Identification | Sample Date | Benzene (mg/l) | Toluene (mg/l) | Ethylbenzene (mg/l) | Total Xylenes (mg/l) | Chlorides (mg/l) | Comments |
|---|---|---|---|---|---|---|---|
| **NMWQCC Groundwater Standards (mg/L)** | | **0.005** | **1.00** | **0.70** | **0.62** | **250** | |
| Trip Blank | 6/2/2014 | <0.001 | <0.001 | <0.001 | <0.001 | NA | |
| Trip Blank | 12/3/2014 | <0.001 | <0.001 | <0.001 | <0.001 | NA | |
| Trip Blank | 2/27/2015 | <0.001 | <0.001 | <0.001 | <0.003 | NA | |
| Trip Blank | 6/2/2015 | <0.001 | <0.001 | <0.001 | <0.003 | NA | |
| Trip Blank | 8/31/2015 | <0.001 | <0.001 | <0.001 | <0.003 | NA | |
| Trip Blank | 12/15/2015 | <0.001 | <0.001 | <0.001 | <0.003 | NA | |
| Trip Blank | 3/21/2016 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | NA | |
| Trip Blank | 6/20/2016 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | NA | |
| Trip Blank | 9/26/2016 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | NA | |
| Trip Blank | 12/19/2016 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | NA | |
| Trip Blank | 3/6/2017 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | NA | |
| Trip Blank | 6/19/2017 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | NA | |
| Trip Blank | 9/27/2017 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | NA | |
| Trip Blank | 12/18/2017 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | NA | |
| Trip Blank | 3/12/2018 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | NA | |
| Trip Blank | 3/12/2018 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | NA | |
| Trip Blank | 6/25/2018 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | NA | |
| Trip Blank | 9/17/2018 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | NA | |
| Trip Blank | 12/10/2018 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | NA | |
| Trip Blank | 3/21/2019 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | NA | |
| Trip Blank | 6/13/2019 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | NA | |
| Trip Blank | 9/17/2019 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | NA | |
| Trip Blank | 12/9/2019 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | NA | |
| Trip Blank | 6/19/2020 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | NA | |
| Trip Blank | 9/15/2020 | 0.000104 J | <0.0010 | <0.0010 | 0.000235 J | NA | |
| Trip Blank | 12/11/2020 | <0.00100 | <0.00100 | <0.00100 | <0.00300 | NA | |
| Trip Blank | 3/24/2021 | <0.00100 | <0.00100 | <0.00100 | <0.00300 | NA | |
| Trip Blank | 6/18/2021 | NA | NA | NA | NA | NA | |
| Trip Blank | 9/24/2021 | 0.000372 J | <0.00100 | <0.00100 | <0.00100 | NA | |

Notes:
**Bold red** values indicate an exceedance of the associated NMWQCC standard or, for chlorides, the secondary maximum contaminant level (SMCL) which has been established as a guideline in the National Secondary Drinking Water Regulations.
NMWQCC = New Mexico Water Quality Control Commission
LNAPL = Light Non-Aqueous Phase Liquid
NA = Not Analyzed
J = The identification of the analyte is acceptable, the reported value is an estimate.
mg/L = milligrams per liter

# Appendix B

## Laboratory Analytical Report

- Pace Analytical Report #: L1409520

# ANALYTICAL REPORT

October 08, 2021



## DCP Midstream - Tasman

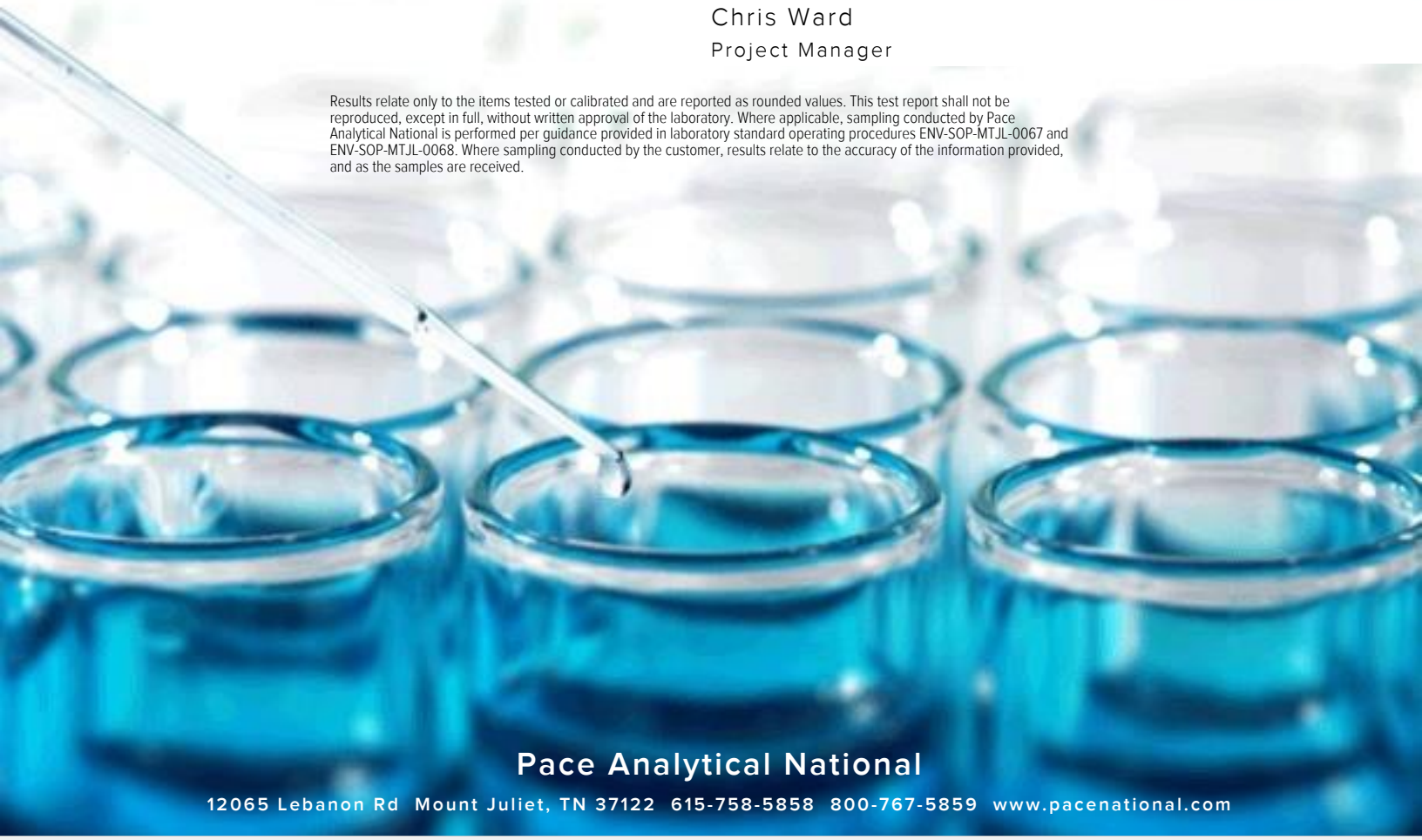
| | |
|---|---|
| Sample Delivery Group: | L1409520 |
| Samples Received: | 09/25/2021 |
| Project Number: | |
| Description: | Burton Flats Booster Station |

Report To: Brian Humphrey
2620 W. Marland Blvd
Hobbs, NM 88240

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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# SAMPLE SUMMARY



## MW-1 L1409520-01 GW

Collected by: Becky G. | Collected date/time: 09/24/21 08:40 | Received date/time: 09/25/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Wet Chemistry by Method 9056A | WG1750732 | 20 | 10/04/21 05:01 | 10/04/21 05:01 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1750399 | 1 | 10/02/21 12:17 | 10/02/21 12:17 | ACG | Mt. Juliet, TN |

## MW-2 L1409520-02 GW

Collected by: Becky G. | Collected date/time: 09/24/21 08:50 | Received date/time: 09/25/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Wet Chemistry by Method 9056A | WG1750732 | 100 | 10/04/21 05:12 | 10/04/21 05:12 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1750399 | 1 | 10/02/21 12:37 | 10/02/21 12:37 | ACG | Mt. Juliet, TN |

## MW-3 L1409520-03 GW

Collected by: Becky G. | Collected date/time: 09/24/21 08:20 | Received date/time: 09/25/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Wet Chemistry by Method 9056A | WG1750732 | 10 | 10/04/21 05:24 | 10/04/21 05:24 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1750399 | 1 | 10/02/21 12:57 | 10/02/21 12:57 | ACG | Mt. Juliet, TN |

## DUPLICATE L1409520-04 GW

Collected by: Becky G. | Collected date/time: 09/24/21 00:00 | Received date/time: 09/25/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Wet Chemistry by Method 9056A | WG1751047 | 20 | 10/04/21 22:36 | 10/04/21 22:36 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1750399 | 1 | 10/02/21 13:18 | 10/02/21 13:18 | ACG | Mt. Juliet, TN |

## TRIP BLANK L1409520-05 GW

Collected by: Becky G. | Collected date/time: 09/24/21 12:00 | Received date/time: 09/25/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1750399 | 1 | 10/02/21 09:13 | 10/02/21 09:13 | ACG | Mt. Juliet, TN |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris Ward
Project Manager

## Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/l | | mg/l | mg/l | | date / time | |
| Chloride | 814 | | 7.58 | 20.0 | 20 | 10/04/2021 05:01 | WG1750732 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/l | | mg/l | mg/l | | date / time | |
| Benzene | 0.0403 | | 0.0000941 | 0.00100 | 1 | 10/02/2021 12:17 | WG1750399 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 10/02/2021 12:17 | WG1750399 |
| Ethylbenzene | 0.0138 | | 0.000137 | 0.00100 | 1 | 10/02/2021 12:17 | WG1750399 |
| Total Xylenes | 0.00203 | J | 0.000174 | 0.00300 | 1 | 10/02/2021 12:17 | WG1750399 |
| *(S) Toluene-d8* | *94.1* | | | *80.0-120* | | *10/02/2021 12:17* | WG1750399 |
| *(S) 4-Bromofluorobenzene* | *98.7* | | | *77.0-126* | | *10/02/2021 12:17* | WG1750399 |
| *(S) 1,2-Dichloroethane-d4* | *108* | | | *70.0-130* | | *10/02/2021 12:17* | WG1750399 |

## Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/l | | mg/l | mg/l | | date / time | |
| Chloride | 2120 | | 37.9 | 100 | 100 | 10/04/2021 05:12 | WG1750732 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/l | | mg/l | mg/l | | date / time | |
| Benzene | U | | 0.0000941 | 0.00100 | 1 | 10/02/2021 12:37 | WG1750399 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 10/02/2021 12:37 | WG1750399 |
| Ethylbenzene | U | | 0.000137 | 0.00100 | 1 | 10/02/2021 12:37 | WG1750399 |
| Total Xylenes | U | | 0.000174 | 0.00300 | 1 | 10/02/2021 12:37 | WG1750399 |
| *(S) Toluene-d8* | *96.9* | | | *80.0-120* | | *10/02/2021 12:37* | WG1750399 |
| *(S) 4-Bromofluorobenzene* | *92.3* | | | *77.0-126* | | *10/02/2021 12:37* | WG1750399 |
| *(S) 1,2-Dichloroethane-d4* | *109* | | | *70.0-130* | | *10/02/2021 12:37* | WG1750399 |

## Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/l | | mg/l | mg/l | | date / time | |
| Chloride | 443 | | 3.79 | 10.0 | 10 | 10/04/2021 05:24 | WG1750732 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/l | | mg/l | mg/l | | date / time | |
| Benzene | 0.000125 | J | 0.0000941 | 0.00100 | 1 | 10/02/2021 12:57 | WG1750399 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 10/02/2021 12:57 | WG1750399 |
| Ethylbenzene | U | | 0.000137 | 0.00100 | 1 | 10/02/2021 12:57 | WG1750399 |
| Total Xylenes | U | | 0.000174 | 0.00300 | 1 | 10/02/2021 12:57 | WG1750399 |
| *(S) Toluene-d8* | *98.2* | | | *80.0-120* | | *10/02/2021 12:57* | WG1750399 |
| *(S) 4-Bromofluorobenzene* | *93.7* | | | *77.0-126* | | *10/02/2021 12:57* | WG1750399 |
| *(S) 1,2-Dichloroethane-d4* | *110* | | | *70.0-130* | | *10/02/2021 12:57* | WG1750399 |

## Wet Chemistry by Method 9056A

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Chloride | 868 | | 7.58 | 20.0 | 20 | 10/04/2021 22:36 | WG1751047 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzene | 0.0448 | | 0.0000941 | 0.00100 | 1 | 10/02/2021 13:18 | WG1750399 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 10/02/2021 13:18 | WG1750399 |
| Ethylbenzene | 0.0170 | | 0.000137 | 0.00100 | 1 | 10/02/2021 13:18 | WG1750399 |
| Total Xylenes | 0.00289 | J | 0.000174 | 0.00300 | 1 | 10/02/2021 13:18 | WG1750399 |
| *(S) Toluene-d8* | *94.3* | | | *80.0-120* | | *10/02/2021 13:18* | WG1750399 |
| *(S) 4-Bromofluorobenzene* | *90.6* | | | *77.0-126* | | *10/02/2021 13:18* | WG1750399 |
| *(S) 1,2-Dichloroethane-d4* | *106* | | | *70.0-130* | | *10/02/2021 13:18* | WG1750399 |

# SAMPLE RESULTS - 05

TRIP BLANK
Collected date/time: 09/24/21 12:00
L1409520

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/l | Qualifier | MDL mg/l | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Benzene | 0.000372 | J | 0.0000941 | 0.00100 | 1 | 10/02/2021 09:13 | WG1750399 |
| Toluene | U | | 0.000278 | 0.00100 | 1 | 10/02/2021 09:13 | WG1750399 |
| Ethylbenzene | U | | 0.000137 | 0.00100 | 1 | 10/02/2021 09:13 | WG1750399 |
| Total Xylenes | U | | 0.000174 | 0.00300 | 1 | 10/02/2021 09:13 | WG1750399 |
| *(S) Toluene-d8* | *100* | | | *80.0-120* | | *10/02/2021 09:13* | WG1750399 |
| *(S) 4-Bromofluorobenzene* | *92.8* | | | *77.0-126* | | *10/02/2021 09:13* | WG1750399 |
| *(S) 1,2-Dichloroethane-d4* | *119* | | | *70.0-130* | | *10/02/2021 09:13* | WG1750399 |

## Method Blank (MB)

(MB) R3712254-1 10/03/21 18:27

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Chloride | U | | 0.379 | 1.00 |

## L1408884-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1408884-01 10/04/21 06:09 • (DUP) R3712254-3 10/04/21 00:48

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Chloride | 30.7 | 30.1 | 1 | 1.96 | | 15 |

## L1409520-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1409520-03 10/04/21 05:24 • (DUP) R3712254-7 10/04/21 05:35

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Chloride | 443 | 443 | 10 | 0.140 | | 15 |

## Laboratory Control Sample (LCS)

(LCS) R3712254-2 10/03/21 18:38

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Chloride | 40.0 | 40.2 | 101 | 80.0-120 | |

## L1408884-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1408884-01 10/04/21 06:09 • (MS) R3712254-4 10/04/21 01:00 • (MSD) R3712254-5 10/04/21 01:11

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 50.0 | 30.7 | 79.1 | 79.4 | 96.9 | 97.4 | 1 | 80.0-120 | | | 0.263 | 15 |

## Original Sample (OS) • Matrix Spike (MS)

(OS) • (MS) R3712254-6 10/04/21 04:38

| Analyte | Spike Amount mg/l | Original Result | MS Result mg/l | MS Rec. % | Dilution | Rec. Limits % | MS Qualifier |
|---|---|---|---|---|---|---|---|
| Chloride | 50.0 | | 51.2 | 98.7 | 1 | 80.0-120 | |

## Method Blank (MB)

(MB) R3712369-1 10/04/21 18:07

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Chloride | U | | 0.379 | 1.00 |

## L1409498-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1409498-11 10/04/21 19:19 • (DUP) R3712369-3 10/04/21 19:36

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Chloride | 19.6 | 19.5 | 1 | 0.443 | | 15 |

## L1409847-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1409847-02 10/05/21 01:53 • (DUP) R3712369-6 10/05/21 02:10

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Chloride | 97.5 | 97.4 | 1 | 0.143 | | 15 |

## Laboratory Control Sample (LCS)

(LCS) R3712369-2 10/04/21 18:24

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Chloride | 40.0 | 39.5 | 98.8 | 80.0-120 | |

## L1409498-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1409498-11 10/04/21 19:19 • (MS) R3712369-4 10/04/21 19:52 • (MSD) R3712369-5 10/04/21 20:08

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 50.0 | 19.6 | 70.4 | 70.6 | 102 | 102 | 1 | 80.0-120 | | | 0.298 | 15 |

## L1409847-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1409847-02 10/05/21 01:53 • (MS) R3712369-7 10/05/21 02:26

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MS Rec. % | Dilution | Rec. Limits % | MS Qualifier |
|---|---|---|---|---|---|---|---|
| Chloride | 50.0 | 97.5 | 145 | 95.6 | 1 | 80.0-120 | E |

## Method Blank (MB)

(MB) R3713781-2 10/02/21 04:29

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Benzene | U | | 0.0000941 | 0.00100 |
| Ethylbenzene | U | | 0.000137 | 0.00100 |
| Toluene | U | | 0.000278 | 0.00100 |
| Xylenes, Total | U | | 0.000174 | 0.00300 |
| *(S) Toluene-d8* | *99.7* | | | *80.0-120* |
| *(S) 4-Bromofluorobenzene* | *92.7* | | | *77.0-126* |
| *(S) 1,2-Dichloroethane-d4* | *116* | | | *70.0-130* |

## Laboratory Control Sample (LCS)

(LCS) R3713781-1 10/02/21 03:48

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Benzene | 0.00500 | 0.00534 | 107 | 70.0-123 | |
| Ethylbenzene | 0.00500 | 0.00507 | 101 | 79.0-123 | |
| Toluene | 0.00500 | 0.00497 | 99.4 | 79.0-120 | |
| Xylenes, Total | 0.0150 | 0.0144 | 96.0 | 79.0-123 | |
| *(S) Toluene-d8* | | | *96.0* | *80.0-120* | |
| *(S) 4-Bromofluorobenzene* | | | *92.4* | *77.0-126* | |
| *(S) 1,2-Dichloroethane-d4* | | | *116* | *70.0-130* | |

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| MDL | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| E | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Chain of Custody

Pace Analytical®

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1409520

F236

Acctnum: DCPTASMAN

Template: T127771

Prelogin: P872130

PM: 824 - Chris Ward

PB: 9/13/21 JDD

Shipped Via: FedEX Ground

Company Name/Address:
**DCP Midstream - Tasman**

2620 W. Marland Blvd
Hobbs, NM 88240

Billing Information:
Steve Weathers
370 17th St, Ste 2500
Denver, CO 80202

Pres Chk

Report to:
**Brian Humphrey**

Email To: knorman@tasman-geo.com;bhumphrey@tasman-

Project Description:
**Burton Flats Booster Station**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **720-218-4003**

Client Project #

Lab Project #
**DCPTASMAN-BURTONFLAT**

Collected by (print):
BECKY GRIFFIN

Site/Facility ID #

P.O. #
**0000524217**

Collected by (signature):
Immediately Packed on Ice N ___ Y ___

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | Chloride 125mlHDPE-NoPres | V8260BTEX 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | | GW | | 9-24-21 | 0840 | 4 | X | X | | -01 |
| MW-2 | | GW | | | 0850 | 4 | X | X | | -02 |
| MW-3 | | GW | | | 0820 | 4 | X | X | | -03 |
| MW-4 | | GW | | | BS | | | | | |
| DUPLICATE | | GW | | 9-24-21 | [redacted] | 4 | X | X | | -04 |
| | | GW | | | | | | | | |
| | | GW | | | | | | | | -05 |
| TRIP BLANK | | GW | | 9-24-21 | 1200 | 1 | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 5318 9943 1537

Sample Receipt Checklist

| | | |
|---|---|---|
| COC Seal Present/Intact: | NP | Y N |
| COC Signed/Accurate: | | Y N |
| Bottles arrive intact: | | Y N |
| Correct bottles used: | | Y N |
| Sufficient volume sent: | | Y N |
| **If Applicable** | | |
| VOA Zero Headspace: | | Y N |
| Preservation Correct/Checked: | | Y N |
| RAD Screen <0.5 mR/hr: | | Y N |

| | Date: | Time: | |
|---|---|---|---|
| Relinquished by : (Signature) | 9-24-21 | 1300 | Received by: (Signature) |
| Relinquished by : (Signature) | | | Received by: (Signature) |
| Relinquished by : (Signature) | | | Received for lab by: (Signature) |

Trip Blank Received: Yes / No HCL / MeoH TBR

Temp: 4.0 °C / 3.7 °C Bottles Received: 16

Date: 9/25/21 Time: 0945

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

**District I**
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
**District II**
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
**District III**
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
**District IV**
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

# State of New Mexico
# Energy, Minerals and Natural Resources
# Oil Conservation Division
# 1220 S. St Francis Dr.
# Santa Fe, NM 87505



## CONDITIONS

| Operator: | OGRID: |
|---|---|
| DCP OPERATING COMPANY, LP<br>370 17th Street, Suite 2500<br>Denver, CO 80202 | 36785 |
| | Action Number:<br>65642 |
| | Action Type:<br>[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| nvelez | Review of Second Quarter 2021 Groundwater Monitoring and Activities Summary Report: Content satisfactory 1. Follow recommendations stated within the aforementioned report; a. Continue quarterly groundwater monitoring and sampling at the monitoring locations b. Continue monitoring and evaluation of the passive LNAPL skimmer and recovery system c. Continue quarterly EFR event(s) at monitoring wells MW-1 and MW-4 during the third quarter 2021 d. Submit annual report no later than March 31, 2022 | 12/30/2021 |