2024 Annual
Groundwater Monitoring Summary Report

Monument Booster Station
Lea County, New Mexico
1RP-1560
Incident # nAUTOfAB000403

REVIEWED
By Mike Buchanan at 3:20 pm, Apr 07, 2025

Review of the 2024 Annual Groundwater Monitoring Summary Report for Monument Booster Station (1RP-1560): content satisfactory
1. Continue to conduct groundwater sampling on a semi-annual basis for MW-1 through MW-7
2. Report on results of the EFR effectiveness at the site. If effectiveness of events has significantly hindered the recovery of LNAPL, propose another method for the residual TPH.
3. Submit the 2025 Annual Groundwater Monitoring Report for Monument Booster Station with results, by April 1, 2026.

Prepared for:

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Prepared by:

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Broomfield, CO 80020

January 30, 2025

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1. Introduction

This report summarizes groundwater monitoring and remediation activities conducted during the 2024 calendar year at the Monument Booster Station (Site) in Lea County, New Mexico (Figure 1). Tasman Geosciences (Tasman) performed these activities on behalf of DCP Operating Company (DCP). The field activities described herein 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 analytical laboratory results collected on June 18 and December 12, 2024. The data collected were used to develop the groundwater elevation and analytical results maps presented herein.

2. Site Location and Background

The Site is located in New Mexico Oil Conservation Division (OCD) designated Unit B, Section 33, Township 19 South, Range 37 East (Figure 1). The facility coordinates are 32.6240 degrees north and 103.2555 degrees west. This facility is an active natural gas compression plant and consists of a main compressor building and other process-related facilities. DCP also owns the property to the south and east that is contiguous to the fenced facility Site boundary (Figure 2).

In 1992, three underground storage tanks (USTs) that formerly contained used oil and pipeline-liquids (oil and/or natural gas liquid condensate) near the main compressor building were removed. At that time and again in 1994, hydrocarbon-impacted soils (approximately 1,000 cubic yards in total) were excavated and removed from the Site. Also in 1994, subsurface soil and groundwater investigation activities were initiated to define the horizontal and vertical extent of residual hydrocarbon impacts. Two groundwater monitoring wells were installed, and six soil borings were advanced as part of this investigation. In 1995, six additional monitoring wells were installed, and one soil boring was advanced.

Hand bailing of LNAPL was initiated in monitoring wells MW-1 and MW-5 in 1995 or 1996. In 1997, an automated pneumatic LNAPL recovery pumping system (Xitech System) was installed in these wells. In 1999 or 2000, the Xitech System was taken out of service at both wells and replaced by product absorbent socks and hand bailing. In mid-2000, product removal activities ceased while groundwater monitoring continued.

The Site currently has eight groundwater monitoring wells (MW-1, MW-1D, MW-2, MW-3, MW-4, MW-5, MW-6 and MW-7). Seven of the wells are located on the gas compressor facility, and MW-3 is located in the southeast corner of the adjacent DCP-owned property. Well MW-2 is located in the northwest corner of the Site and is up-gradient of Site impacts.

Based on previously collected data, it appears that a release of hydrocarbons occurred near the former pipeline-liquid aboveground storage tank (AST) located near monitoring wells MW-1 and MW-1D in the center of the gas compressor facility along the eastern property boundary (Figure 2). Since 1994 or 1995,

monitoring wells MW-1 and MW-5 have historically exhibited LNAPL, however overall measurable thicknesses have been significantly reduced since vacuum enhanced fluid recovery (EFR) activities were implemented in the First Half 2014. Ongoing fluctuations in LNAPL thicknesses at these locations are likely associated with seasonal fluctuations in regional groundwater levels.

Subsequent to the Second Half 2016 monitoring event, monitoring well MW-6 was removed from the Site Sampling Plan based on dissolved phase petroleum hydrocarbon constituent concentrations that were reported below laboratory detection limits for 13 consecutive quarters. Additionally, due to the MW-6 location being near the flare stack for the compressor facility, conducting monitoring well gauging and sampling activities in the area was determined an unnecessary added health and safety concern.

3. Groundwater Monitoring

This section describes the groundwater field and laboratory activities performed during 2024, occurring on June 18 and December 12, 2024. Monitoring activities included Site-wide groundwater gauging, LNAPL measurements, and groundwater sampling. Figure 2 illustrates the groundwater monitoring network utilized to perform these activities at the Site.

3.1 Groundwater and LNAPL Elevation Monitoring

Groundwater and LNAPL were measured to evaluate hydraulic characteristics and provide information regarding seasonal and annual fluctuations in groundwater and LNAPL elevations at the Site. During the reporting period, groundwater levels were measured at seven site monitoring well locations.

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 levels were later converted to elevations (feet above mean sea level [AMSL]). Measured groundwater levels, calculated groundwater elevations, and LNAPL level data are presented in Table 1.

Groundwater elevation maps, included as Figure 3 and 4, indicates that groundwater flow at the Site trends to the southeast. Groundwater elevations decreased during the monitoring period by an average of -0.34 between both sampling events. Groundwater elevation ranges, average elevation changes from previous monitoring events, and calculated hydraulic gradients at the Site are summarized in the table below.

Summary of Measured Hydraulic Parameters

	June 18, 2024	December 12, 2024
Maximum Elevation (Well ID)	3,564.65 (MW-2)	3,564.82 (MW-2)
Minimum Elevation (Well ID)	3,558.47 (MW-3)	3,558.29 (MW-3)
Potentiometric Surface Average Change (ft)	-0.62	-0.04
Hydraulic Gradient (ft/ft)	0.00672	0.00710

LNAPL was observed in monitoring well MW-1 during the June event at a thickness of 0.36 feet. A sheen was observed at monitor wells MW-1 and MW-5 during the December event, but was not present at a measurable thickness.

3.2 Groundwater Quality Monitoring

Subsequent to recording groundwater level measurements, groundwater samples were collected from six or seven of the on-site wells when the absence of LNAPL allowed for it. A minimum of three well casing volumes of groundwater were purged from each monitoring well prior to collection of groundwater samples. Groundwater samples were collected using disposable polyethylene bailers, placed in clean laboratory-supplied containers for the selected analytical methods, 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 Laboratories (Pace) in Mount Juliet, Tennessee, for analysis. Water quality samples were submitted for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) by United States Environmental Protection Agency (USEPA) Method 8260B.

Table 2 summarizes BTEX concentrations in groundwater samples collected during the reporting period. Historical analytical results up to and including the December 12, 2024, event is presented in Appendix A, and the laboratory analytical reports for 2024 are included in Appendix B. The laboratory analytical results are displayed on Figures 5 and 6 and NMOCD sampling notifications are included as Appendix C.

Analytical results/observations are summarized below:

- Benzene was not detected above the New Mexico Water Quality Control Commission (NMWQCC) groundwater standard of 0.010 milligrams per liter (mg/L) in any of the sampled wells during 2024. Concentrations of Benzene ranged from 0.000216 J mg/L in monitoring well MW-1D during the June sampling event to 0.00835 mg/L in monitoring well MW-1 during the December sampling event.
- Toluene, ethylbenzene, and total xylenes were not detected above NMWQCC standards and/or the laboratory method detection limit in any of the sampled Site monitoring wells.

3.3 Data Quality Assurance / Quality Control

A trip blank and field duplicate sample (MW-5) were collected during both sampling events. 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 and indicate that samples were received at the proper temperature with no headspace. All data were reported using the correct method number and reporting units. QA/QC items of note for 2024 include the following:

- Target analytes were not detected in the trip blank
- The calculated RPDs for the first and second halves of 2024 are 0.88% and 12.18%, respectively, which falls within the 20% target range.

The overall QA/QC assessment, based on the data review, indicates that overall data precision and accuracy are acceptable.

4. Remediation Activities

This section outlines remedial activities performed at the site.

4.1 Vacuum Enhanced Fluid Recovery

Enhanced fluid recovery events were initiated in June 2013 to address the free phase petroleum hydrocarbon plume on-Site. Historical EFR activities included the application of high vacuum, using a vacuum truck, to individual well points (MW-1, MW-5, and MW-7) through a stinger pipe assembly. The stinger was placed slightly below the LNAPL/groundwater interface, thereby removing LNAPL, groundwater, and vapors from the subsurface.

Remediation activities completed onsite through the Second Half 2021 have been presented to the OCD in previously submitted reports. Based on observations following the Fourth Quarter 2020, DCP temporarily discontinued EFR events for 2021 to further evaluate and determine if the effects of EFR cause the decline of dissolved phase contaminants or natural attenuation is occurring.

Four EFR events were conducted during the 2024 calendar year on March 18, June 20, September 24, and December 13, 2024. In March, June, and September, an 8-hour event was performed on monitor well MW-1 only due to no measurable LNAPL being present at monitor well MW-5. EFR was applied to monitoring wells MW-1 and MW-5 for approximately 4 hours each during the December event since a sheen was encountered at both wells. Recovered volumes are as follows:

- March 28, 2024 – 32 barrels (bbls)
- June 20, 2024 – 22 bbls
- September 24, 2024 – 30 bbls

- December 13, 2024 – 30 bbls

The recovered groundwater was transported for disposal at the Cooper Disposal Facility in Hobbs, New Mexico.

5. Conclusions

Data and observations collected during 2024 yield the following general conclusions:

- Based on historical groundwater elevations, the potentiometric surface at the Site has remained relatively stable with minor elevation changes likely due to seasonal variations.
- The analytical results from the groundwater samples collected at MW-5 indicate that remaining source material at the Site is highly degraded and does not contribute significantly to dissolved phase impacts.
- MW-3 and MW-4 have not had any BTEX constituents detected since May 1995.
- LNAPL thickness decreased at MW-1 from 0.36 feet in the first half 2024 to being absent in the second half 2024. This decrease is most likely due to the quarterly EFR events taking place at the monitoring well.

6. Recommendations

Based on evaluation of data gathered during the 2024 monitoring period and historical Site observations and monitoring results, the following recommendations have been developed for future activities:

- Continue semi-annual groundwater monitoring and sampling at the existing monitoring well locations illustrated on Figure 2.
- Quarterly events will be paused to assess the effectiveness of EFR at the site. The continuance of the EFR events will be assessed based on data collected during the monitoring event tentatively scheduled for the month of June 2025

Tables

TABLE 1
2024 ANNUAL
SUMMARY OF GROUNDWATER ELEVATION DATA
MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location		Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (*) (feet amsl)	Change in Groundwater Elevation Since Previous Event (1) (feet)
MW-1	6/18/2024	29.12	28.76	0.36	41.89	3591.15	3562.30	-1.13
MW-1	12/12/2024	28.63			41.89	3591.15	3562.52	0.22
MW-1D	6/18/2024	28.72			36.24	3591.31	3562.59	-0.73
MW-1D	12/12/2024	28.73			36.24	3591.31	3562.58	-0.01
MW-2	6/18/2024	31.65			43.27	3596.30	3564.65	-1.00
MW-2	12/12/2024	31.48			43.27	3596.30	3564.82	0.17
MW-3	6/18/2024	25.13			35.53	3583.60	3558.47	-0.14
MW-3	12/12/2024	25.31			35.53	3583.60	3558.29	-0.18
MW-4	6/18/2024	28.37			38.92	3588.77	3560.40	-0.20
MW-4	12/12/2024	28.65			38.92	3588.77	3560.12	-0.28
MW-5	6/18/2024	30.18			38.47	3592.16	3561.98	-0.49
MW-5	12/12/2024	30.36			38.47	3592.16	3561.80	-0.18
MW-6	6/18/2024	NM			NM	3587.93	NM	NM
MW-6	12/12/2024	NM			NM	3587.93	NM	NM
MW-7	6/18/2024	28.20			37.86	3589.40	3561.20	-0.63
MW-7	12/12/2024	28.24			37.86	3589.40	3561.16	-0.04
							Average change in groundwater elevation (6/18/2024 to 12/12/2024)	-0.04

Notes:
1- Changes in groundwater elevation calculated by subtracting the measurement collected during the previous monitoring event from the measurement collected during
amsl = feet above mean sea level
TOC = top of casing
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 is assumed to be approximately 0.75 grams per cubic centimeter (g/cc)

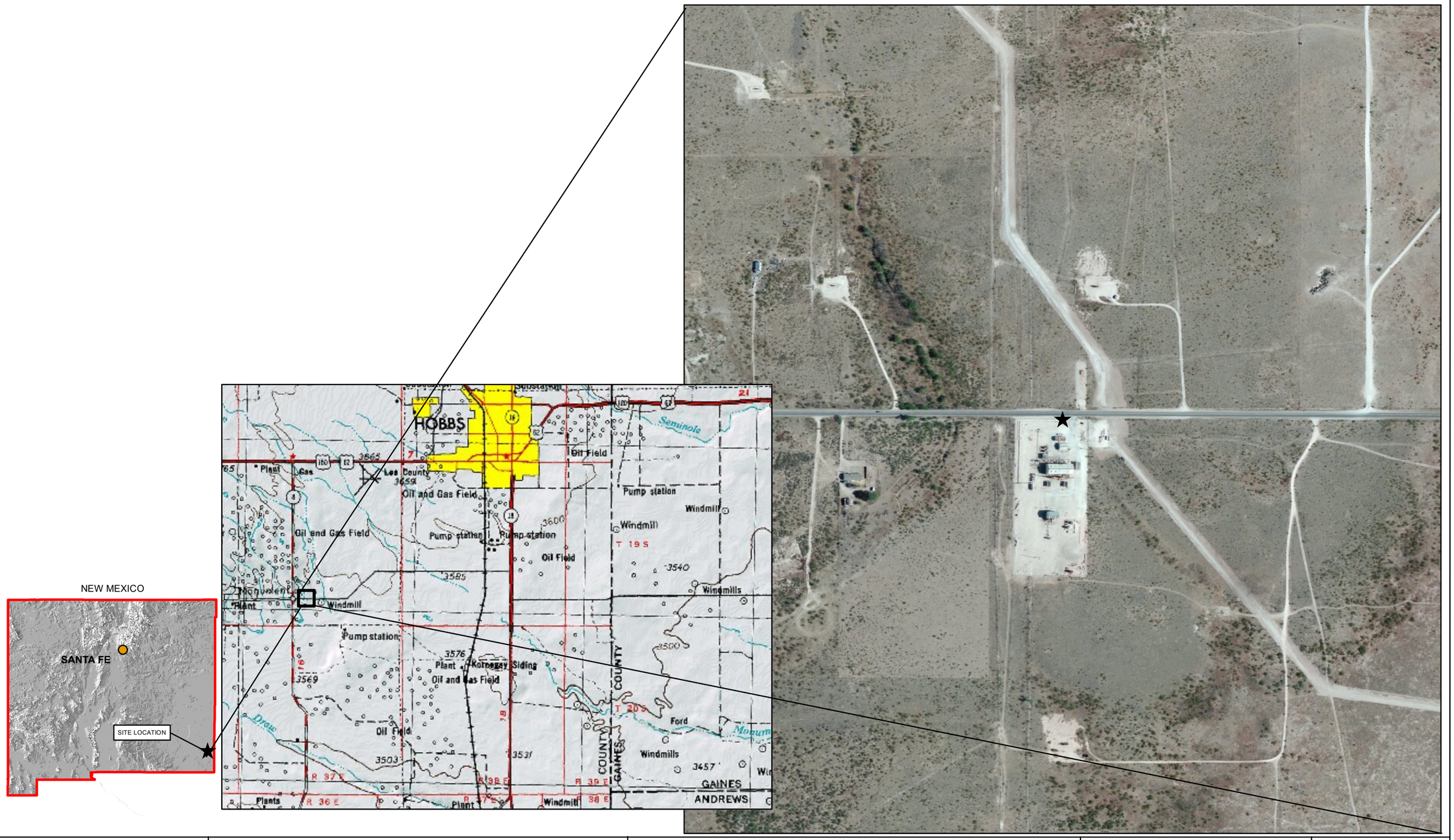
NM = Not Measured

TABLE 2
2024 ANNUAL
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.010**	**1.00**	**0.70**	**0.62**	
MW-1	06/18/24	NS	NS	NS	NS	LNAPL Present - No Sample Collected
MW-1	12/12/24	0.00835	<0.00100	0.00349	0.000769 I	
MW-1D	06/18/24	0.000216 J	<0.00100	<0.00100	<0.00300	
MW-1D	12/12/24	0.000286 J	<0.00100	<0.00100	<0.00300	
MW-2	06/18/24	<0.00100	<0.00100	<0.00100	<0.00300	
MW-2	12/12/24	<0.00100	<0.00100	<0.00100	<0.00300	
MW-3	06/18/24	<0.00100	<0.00100	<0.00100	<0.00300	
MW-3	12/12/24	<0.00100	<0.00100	<0.00100	<0.00300	
MW-4	06/18/24	<0.00100	<0.00100	<0.00100	<0.00300	
MW-4	12/12/24	<0.00100	<0.00100	<0.00100	<0.00300	
MW-5	06/18/24	0.00802	<0.00500	0.00391 J	<0.0150	Duplicate sample collected
MW-5 (Duplicate)	06/18/24	0.00795	0.000313 J	0.00501	0.000558 J	
MW-5	12/12/24	0.00575	<0.00100	0.00261	0.000333 J	Duplicate sample collected
MW-5 (Duplicate)	12/12/24	0.00509	<0.00100	0.00253	0.000337 J	
MW-6	12/09/22	<0.00100	<0.00100	<0.00100	<0.00300	
MW-6	06/27/23	Removed from site sampling plan				
MW-7	06/18/24	0.000665 J	<0.00100	0.000161 J	<0.00300	
MW-7	12/12/24	0.00798	<0.00100	0.00601	0.000941 J	
Trip Blank	06/18/24	<0.00100	<0.00100	<0.00100	<0.00300	
Trip Blank	12/12/24	<0.00100	<0.00100	<0.00100	<0.00300	

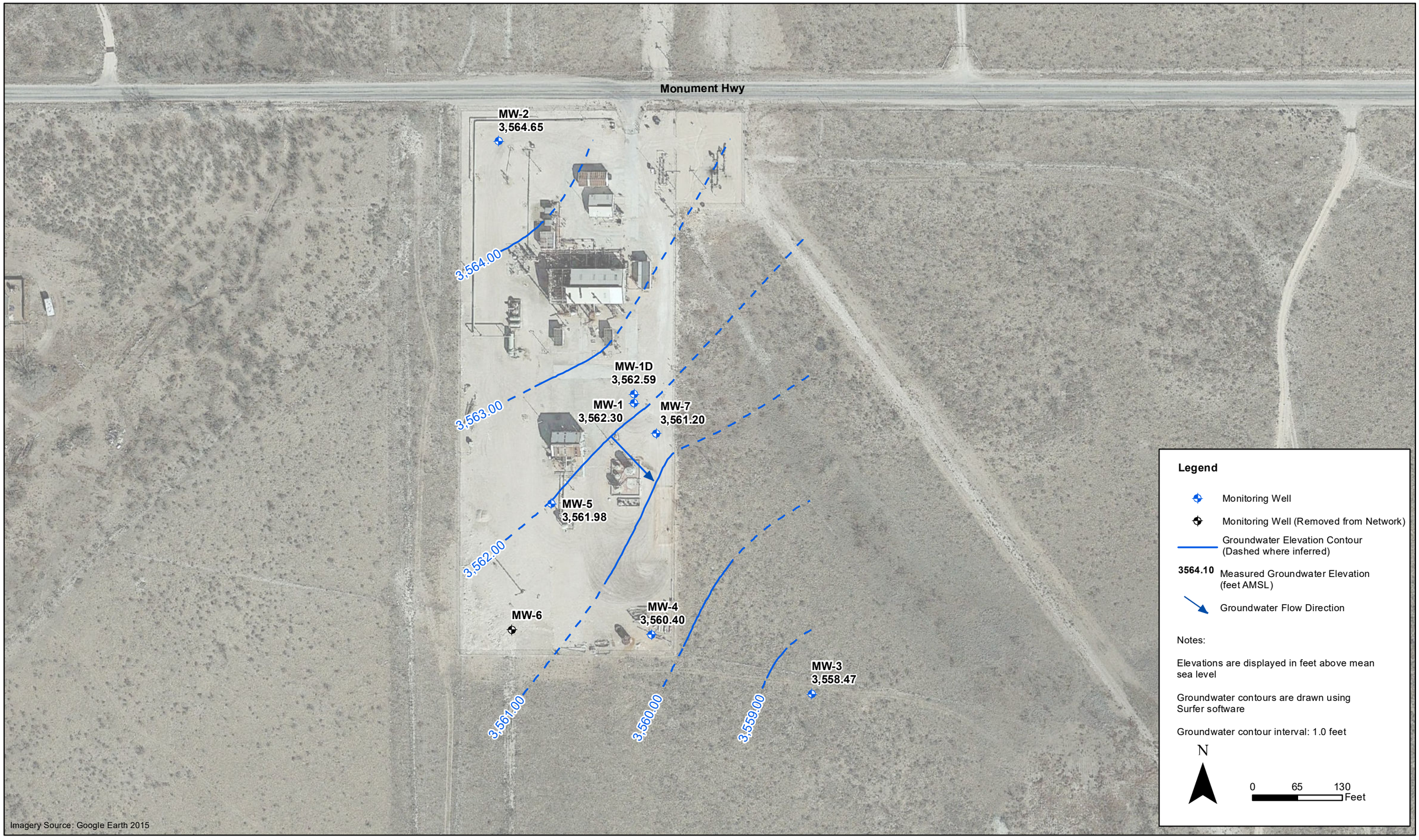
Bold red values indicate an exceedance of the NMWQCC groundwater standards for the Site.
NMWQCC = New Mexico Water Quality Control Commission
LNAPL = Light Non-Aqueous Phase Liquid
J = Estimated Value
mg/L = milligrams per liter
J = A qualifier indicating an estimated value of a concentration above the laboratory's Method Detection Limit (MDL) but below the Reporting Limit (RL).

Figures



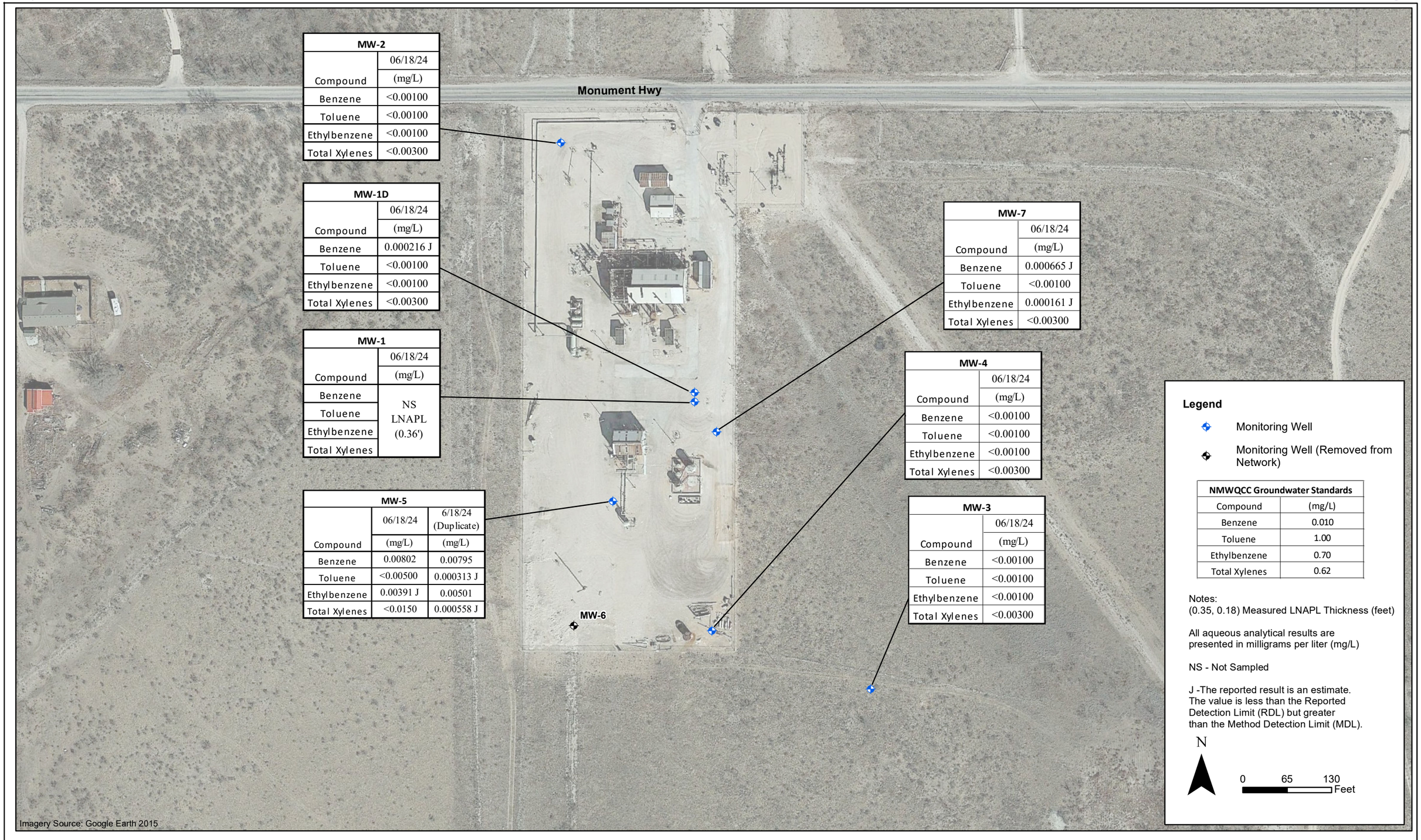
DATE: December 2014 DESIGNED BY: T. Johansen DRAWN BY: D. Arnold	TASMAN GEOSCIENCES Tasman Geosciences, LLC 6899 Pecos Street - Unit C Denver, CO 80221	**DCP Midstream** **Monument Booster Station** Unit B, Section 33, Township 19 South, Range 37 East Lea County, New Mexico	Site Location Map	Figure 1

DATE: Februrary 2024 DESIGNED BY: B. Dennis DRAWN BY: B. Dennis	TASMAN Tasman, Inc. 6855 W. 119th Ave Broomfield, CO 80020	**DCP Operating Company. LP** **Monument Booster Station** UL "B", Sec. 33, T19S, R37E Lea County, New Mexico	Site Overview Map	Figure 2



DATE: July 2024 DESIGNED BY: B. Dennis DRAWN BY: B. Dennis	TASMAN Tasman, Inc. 6855 W. 119th Ave Broomfield, CO 80020	**DCP Operating Company, LP** **Monument Booster Station** 2024 Annual Groundwater Monitoring Summary Report	Groundwater Elevation Contour Map (June 18, 2024)	Figure 3

DATE: December 2024 DESIGNED BY: K. Stark DRAWN BY: K. Stark	TASMAN Tasman, Inc. 6855 W. 119th Ave Broomfield, CO 80020	**DCP Operating Company, LP** **Monument Booster Station** 2024 Annual Groundwater Monitoring Summary Report	Groundwater Elevation Contour Map (December 12, 2024)	Figure 4



MW-2	
	06/18/24
Compound	(mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300

MW-1D	
	06/18/24
Compound	(mg/L)
Benzene	0.000216 J
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300

MW-1	
	06/18/24
Compound	(mg/L)
Benzene	NS LNAPL (0.36')
Toluene	
Ethylbenzene	
Total Xylenes	

MW-5		
	06/18/24	6/18/24 (Duplicate)
Compound	(mg/L)	(mg/L)
Benzene	0.00802	0.00795
Toluene	<0.00500	0.000313 J
Ethylbenzene	0.00391 J	0.00501
Total Xylenes	<0.0150	0.000558 J

MW-7	
	06/18/24
Compound	(mg/L)
Benzene	0.000665 J
Toluene	<0.00100
Ethylbenzene	0.000161 J
Total Xylenes	<0.00300

MW-4	
	06/18/24
Compound	(mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300

MW-3	
	06/18/24
Compound	(mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300

Legend

- Monitoring Well
- Monitoring Well (Removed from Network)

NMWQCC Groundwater Standards	
Compound	(mg/L)
Benzene	0.010
Toluene	1.00
Ethylbenzene	0.70
Total Xylenes	0.62

Notes:
(0.35, 0.18) Measured LNAPL Thickness (feet)

All aqueous analytical results are presented in milligrams per liter (mg/L)

NS - Not Sampled

J -The reported result is an estimate. The value is less than the Reported Detection Limit (RDL) but greater than the Method Detection Limit (MDL).

N

0 65 130 Feet

DATE: July 2024
DESIGNED BY: B. Dennis
DRAWN BY: K. Stark

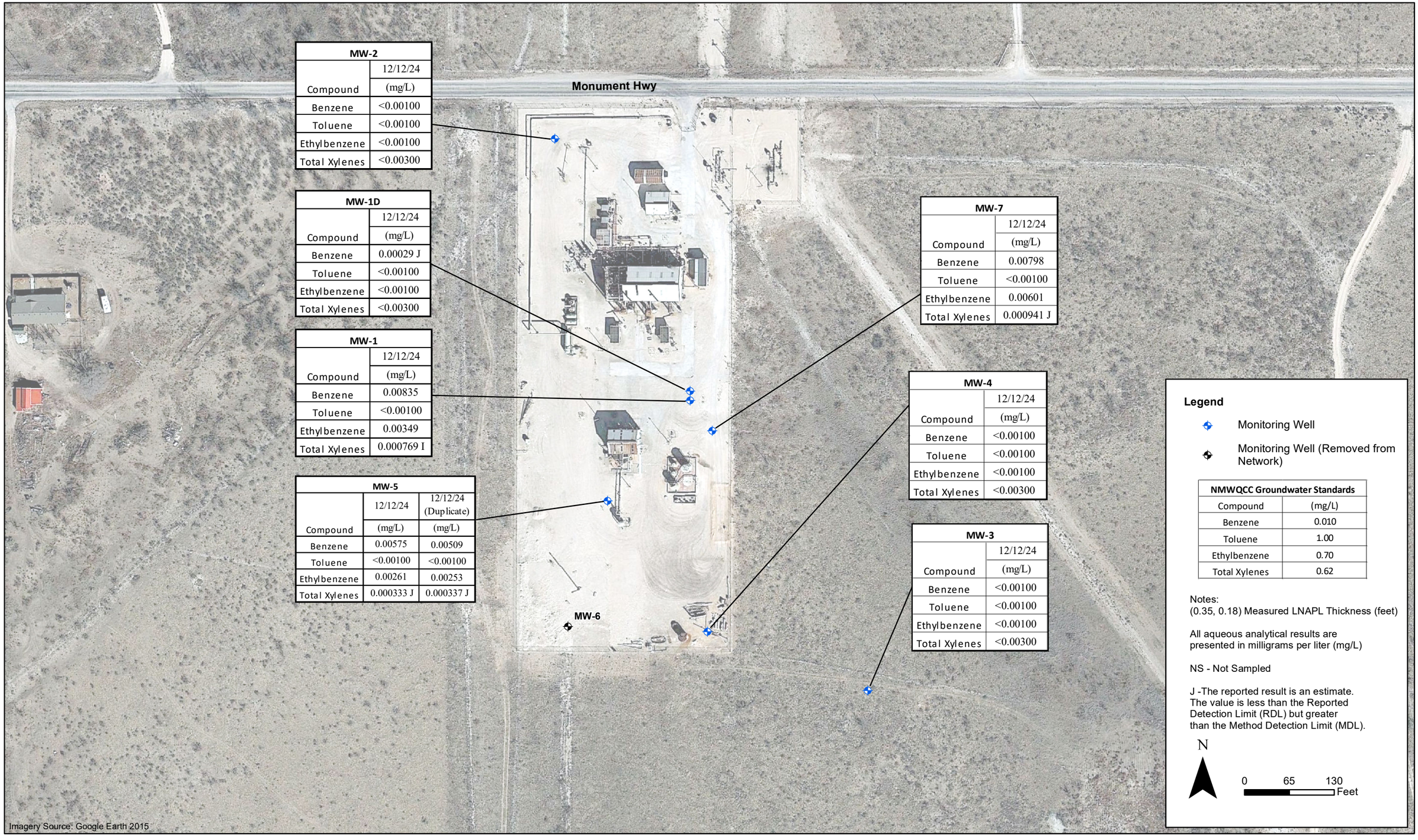
TASMAN

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

DCP Operating Company, LP
Monument Booster Station
2024 Annual Groundwater Monitoring Summary Report

Analytical Results Map
(June 18, 2024)

Figure
5



MW-2	
Compound	12/12/24 (mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300

MW-1D	
Compound	12/12/24 (mg/L)
Benzene	0.00029 J
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300

MW-1	
Compound	12/12/24 (mg/L)
Benzene	0.00835
Toluene	<0.00100
Ethylbenzene	0.00349
Total Xylenes	0.000769 I

MW-5		
Compound	12/12/24 (mg/L)	12/12/24 (Duplicate) (mg/L)
Benzene	0.00575	0.00509
Toluene	<0.00100	<0.00100
Ethylbenzene	0.00261	0.00253
Total Xylenes	0.000333 J	0.000337 J

MW-7	
Compound	12/12/24 (mg/L)
Benzene	0.00798
Toluene	<0.00100
Ethylbenzene	0.00601
Total Xylenes	0.000941 J

MW-4	
Compound	12/12/24 (mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300

MW-3	
Compound	12/12/24 (mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300

Legend

- Monitoring Well
- Monitoring Well (Removed from Network)

NMWQCC Groundwater Standards	
Compound	(mg/L)
Benzene	0.010
Toluene	1.00
Ethylbenzene	0.70
Total Xylenes	0.62

Notes:
(0.35, 0.18) Measured LNAPL Thickness (feet)

All aqueous analytical results are presented in milligrams per liter (mg/L)

NS - Not Sampled

J -The reported result is an estimate. The value is less than the Reported Detection Limit (RDL) but greater than the Method Detection Limit (MDL).

N

0 65 130 Feet

DATE: December 2024 DESIGNED BY: B. Dennis DRAWN BY: K. Stark	TASMAN **Tasman, Inc.** **6855 W. 119th Ave** **Broomfield, CO 80020**	**DCP Operating Company, LP** **Monument Booster Station** 2024 Annual Groundwater Monitoring Summary Report	Analytical Results Map (December 12, 2024)	Figure 6

Appendix A

Historical Analytical Results

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.010**	**1.00**	**0.70**	**0.62**	
MW-1	09/15/11	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	03/06/12	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	09/05/12	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	02/21/13	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	02/26/14	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	09/24/14	Not Sampled - LNAPL Residue				
MW-1	02/24/15	**0.015**	<0.001	0.011	<0.003	
MW-1	09/01/15	**0.042**	<0.005	<0.005	<0.015	
MW-1	03/21/16	**0.098**	<0.005	0.052	<0.015	
MW-1	09/26/16	**0.011**	<0.001	<0.001	<0.003	
MW-1	03/07/17	**0.047**	<0.001	0.031	0.0021	
MW-1	09/25/17	**0.0584**	<0.0010	0.0902	0.00485	
MW-1	03/13/18	**0.0456**	<0.0010	0.0344	0.00221 J	
MW-1	09/17/18	**0.0846**	0.000445 J	0.141	0.00783	
MW-1	03/20/19	**0.134**	<0.0010	0.16	0.00833	
MW-1	09/19/19	**0.127**	<0.0050	0.137	0.0108 J	
MW-1	06/22/20	**0.084**	<0.0050	0.0603	0.0048	
MW-1	09/17/20	**0.0993**	<0.0100	0.0599	0.00500	
MW-1	03/26/21	**0.185**	<0.0100	0.142	0.0179 J	
MW-1	09/28/21	NS	NS	NS	NS	LNAPL Present - No Sample Collected
MW-1	03/25/22	NS	NS	NS	NS	LNAPL Present - No Sample Collected
MW-1	12/09/22	**0.0646**	<0.0100	0.226	0.0146 J	0.94 ft LNAPL
MW-1	06/27/23	NS	NS	NS	NS	LNAPL Present - No Sample Collected
MW-1	12/12/23	NS	NS	NS	NS	LNAPL Present - No Sample Collected
MW-1	06/18/24	NS	NS	NS	NS	LNAPL Present - No Sample Collected
MW-1	12/12/24	0.00835	<0.00100	0.00349	0.00077 I	
MW-1D	05/16/95	**0.018**	0.015	0.006	0.016	
MW-1D	11/15/95	0.003	0.002	<0.001	0.001	
MW-1D	01/18/96	0.004	0.003	<0.001	0.009	
MW-1D	04/24/96	<0.001	<0.001	<0.001	<0.001	
MW-1D	01/22/97	0.001	0.001	<0.001	<0.001	
MW-1D	08/11/97	<0.001	<0.001	<0.001	<0.001	
MW-1D	01/23/98	<0.001	<0.001	<0.001	<0.001	
MW-1D	08/03/98	<0.001	<0.001	<0.001	<0.001	
MW-1D	02/10/99	<0.001	<0.001	<0.001	<0.001	
MW-1D	08/17/99	<0.001	<0.001	<0.001	<0.001	
MW-1D	02/17/00	0.002	0.003	<0.001	0.001	
MW-1D	08/23/00	<0.005	<0.005	<0.005	<0.005	
MW-1D	02/08/01	<0.001	<0.001	<0.001	0.001	
MW-1D	07/30/01	<0.001	<0.001	<0.001	<0.001	
MW-1D	02/13/02	<0.001	<0.001	<0.001	<0.001	
MW-1D	09/27/02	<0.001	<0.001	<0.001	<0.001	
MW-1D	04/25/03	<0.005	<0.005	<0.005	<0.005	
MW-1D	09/18/03	0.002	<0.001	<0.001	<0.001	
MW-1D	03/17/04	<0.001	<0.001	<0.001	<0.001	
MW-1D	08/17/04	<0.001	<0.001	<0.001	<0.001	
MW-1D	03/04/05	<0.001	<0.001	<0.001	<0.001	
MW-1D	09/21/05	<0.001	<0.001	<0.001	<0.001	
MW-1D	03/16/06	<0.001	<0.001	<0.001	<0.001	
MW-1D	09/20/06	<0.001	<0.001	<0.001	<0.001	
MW-1D	03/22/07	<0.001	<0.001	<0.001	<0.001	
MW-1D	09/25/07	<0.001	<0.001	<0.001	<0.001	
MW-1D	03/19/08	<0.00046	<0.00048	<0.00045	<0.0014	
MW-1D	03/20/08	<0.002	<0.002	<0.002	<0.006	
MW-1D	09/17/08	<0.002	<0.002	<0.002	<0.002	
MW-1D	03/10/09	<0.002/<0.002	<0.002/<0.002	<0.002/<0.002	<0.006/<0.006	
MW-1D	03/11/09	<0.00046	<0.00048	<0.00045	<0.0014	
MW-1D	09/23/09	<0.002	<0.002	<0.002	<0.006	
MW-1D	09/23/09	<0.00050	<0.00043	<0.00055	<0.0017	
MW-1D	05/17/10	<0.002	<0.002	<0.002	<0.006	
MW-1D	05/17/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-1D	09/16/10	<0.002	<0.002	<0.002	<0.004	
MW-1D	09/16/10	<0.00030	<0.0010	<0.00030	-	
MW-1D	04/26/11	<0.001	<0.002	<0.002	<0.002	
MW-1D	04/26/11	<0.00030	<0.0010	<0.00030	<0.00060	
MW-1D	09/15/11	<0.001	<0.002	<0.002	<0.004	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.010**	**1.00**	**0.70**	**0.62**	
MW-1D	03/06/12	<0.005	<0.005	<0.005	<0.015	
MW-1D	09/05/12	<0.005	<0.005	<0.005	<0.015	
MW-1D	02/21/13	**0.016**	<0.001	<0.001	<0.003	
MW-1D	09/11/13	0.0029	<0.001	<0.001	<0.001	
MW-1D	02/26/14	<0.001	<0.001	<0.001	<0.001	
MW-1D	09/24/14	<0.001	<0.001	<0.001	<0.003	
MW-1D	02/24/15	<0.001	<0.001	<0.001	<0.003	
MW-1D	09/01/15	<0.001	<0.001	<0.001	<0.003	
MW-1D	03/21/16	<0.001	<0.001	<0.001	<0.003	
MW-1D	09/26/16	<0.001	<0.001	<0.001	<0.003	
MW-1D	03/07/17	<0.001	<0.001	<0.001	<0.001	
MW-1D	09/25/17	0.000958 J	<0.0010	<0.0010	<0.0030	
MW-1D	03/13/18	0.000918 J	<0.0010	<0.0010	<0.0030	
MW-1D	09/17/18	0.000918 J	<0.0010	<0.0010	<0.0030	
MW-1D	03/20/19	0.00544	<0.0010	0.000403 J	<0.0030	
MW-1D	09/19/19	0.00736	<0.0010	<0.0010	<0.0030	
MW-1D	06/22/20	0.0032	<0.0010	<0.0010	<0.0030	
MW-1D	09/17/20	0.00244	<0.00100	<0.00100	<0.00300	
MW-1D	03/26/21	0.00217	<0.00100	<0.00100	<0.00300	
MW-1D	09/28/21	0.00146	<0.00100	<0.00100	<0.00300	
MW-1D	03/25/22	0.000462 J	<0.00100	<0.00100	<0.00300	
MW-1D	12/09/22	0.000589 J	<0.00100	<0.00100	<0.00300	
MW-1D	06/27/23	0.000348 J	<0.00100	<0.00100	<0.00300	
MW-1D	12/12/23	0.0008 J	<0.00100	<0.00100	<0.00300	
MW-1D	06/18/24	0.000216 J	<0.00100	<0.00100	<0.00300	
MW-1D	12/12/24	0.00029 J	<0.00100	<0.00100	<0.00300	
MW-2	05/16/95	<0.001	<0.001	<0.001	<0.001	
MW-2	11/15/95	NS	0.006	0.002	-	
MW-2	01/18/96	<0.001	<0.001	<0.001	<0.001	
MW-2	04/24/96	<0.001	<0.001	<0.001	<0.001	
MW-2	01/22/97	<0.001	<0.001	<0.001	<0.001	
MW-2	08/11/97	<0.001	<0.001	<0.001	<0.001	
MW-2	01/23/98	<0.001	<0.001	<0.001	<0.001	
MW-2	08/03/98	<0.001	<0.001	<0.001	<0.001	
MW-2	02/10/99	<0.001	<0.001	<0.001	<0.001	
MW-2	08/17/99	**0.017**	0.002	0.013	0.003	
MW-2	02/17/00	<0.001	<0.001	<0.001	<0.001	
MW-2	08/23/00	<0.001	<0.001	<0.001	<0.001	
MW-2	02/08/01	<0.001	<0.001	<0.001	<0.001	
MW-2	07/30/01	<0.001	<0.001	<0.001	<0.001	
MW-2	02/13/02	<0.001	<0.001	<0.001	<0.001	
MW-2	09/27/02	<0.001	<0.001	<0.001	<0.001	
MW-2	04/25/03	<0.001	<0.001	<0.001	<0.001	
MW-2	09/18/03	0.002	<0.001	<0.001	<0.001	
MW-2	03/17/04	<0.001	<0.001	<0.001	<0.001	
MW-2	08/17/04	<0.001	<0.001	<0.001	<0.001	
MW-2	03/04/05	<0.001	<0.001	<0.001	<0.001	
MW-2	09/21/05	<0.001	<0.001	<0.001	<0.001	
MW-2	03/16/06	<0.001	<0.001	<0.001	<0.001	
MW-2	09/20/06	<0.001	<0.001	<0.001	<0.001	
MW-2	03/22/07	<0.001	<0.001	<0.001	<0.001	
MW-2	09/25/07	<0.001	<0.001	<0.001	<0.001	
MW-2	03/19/08	<0.00046	<0.00048	<0.00045	<0.0014	
MW-2	03/20/08	<0.002	<0.002	<0.002	<0.006	
MW-2	09/17/08	<0.002	<0.002	<0.002	<0.006	
MW-2	03/10/09	<0.002	<0.002	<0.002	<0.006	
MW-2	03/11/09	<0.00046	<0.00048	<0.00045	<0.0014	
MW-2	09/23/09	<0.002	<0.002	<0.002	<0.006	
MW-2	09/23/09	<0.00050	<0.00043	<0.00055	<0.0017	
MW-2	05/17/10	<0.002	<0.002	<0.002	<0.006	
MW-2	05/17/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-2	09/16/10	<0.001	<0.002	<0.002	<0.004	
MW-2	09/16/10	<0.00030	<0.0010	<0.00030	-	
MW-2	04/26/11	<0.001	<0.002	<0.002	<0.002	
MW-2	04/26/11	<0.00030	<0.0010	<0.00030	<0.00060	
MW-2	09/15/11	<0.001	<0.002	<0.002	<0.004	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.010**	**1.00**	**0.70**	**0.62**	
MW-2	03/06/12	<0.005	<0.005	<0.005	<0.015	
MW-2	09/05/12	<0.005	<0.005	<0.005	<0.015	
MW-2	02/21/13	<0.001	<0.001	<0.001	<0.003	
MW-2	09/11/13	<0.001	<0.001	<0.001	<0.001	
MW-2	02/26/14	<0.001	<0.001	<0.001	<0.001	
MW-2	09/24/14	<0.001	<0.001	<0.001	<0.003	MS/MSD Collected
MW-2	02/24/15	<0.001	<0.001	<0.001	<0.003	
MW-2	09/01/15	<0.001	<0.001	<0.001	<0.003	
MW-2	03/21/16	<0.001	<0.001	<0.001	<0.003	
MW-2	09/26/16	<0.001	<0.001	<0.001	<0.003	
MW-2	03/07/17	<0.001	<0.001	<0.001	<0.001	
MW-2	09/25/17	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	03/13/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	09/18/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	03/20/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	09/19/19	0.00796	0.00224	<0.0010	<0.0030	
MW-2	10/08/19	**0.258**	0.0886	0.00391 J	0.0146 J	Re-sample
MW-2	06/22/20	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	09/17/20	<0.00100	<0.00100	<0.00100	<0.00300	
MW-2	03/26/21	<0.00100	<0.00100	<0.00100	<0.00300	
MW-2	09/28/21	<0.00100	<0.00100	<0.00100	<0.00300	
MW-2	03/25/22	<0.00100	<0.00100	<0.00100	<0.00300	
MW-2	12/09/22	0.00468	0.000418 J	<0.00100	<0.00300	
MW-2	06/27/23	0.0000971 J	<0.00100	<0.00100	<0.00300	
MW-2	12/12/23	<0.00100	<0.00100	<0.00100	<0.00300	
MW-2	06/18/24	<0.00100	<0.00100	<0.00100	<0.00300	
MW-2	12/12/24	<0.00100	<0.00100	<0.00100	<0.00300	
MW-3	05/16/95	<0.001	<0.001	<0.001	<0.001	
MW-3	11/15/95	<0.001	<0.001	<0.001	<0.001	
MW-3	01/18/96	<0.001	<0.001	<0.001	<0.001	
MW-3	04/24/96	<0.001	<0.001	<0.001	<0.001	
MW-3	01/22/97	<0.001	<0.001	<0.001	<0.001	
MW-3	08/11/97	<0.001	<0.001	<0.001	<0.001	
MW-3	01/23/98	<0.001	<0.001	<0.001	<0.001	
MW-3	08/03/98	0.007	<0.001	<0.001	<0.001	
MW-3	02/10/99	<0.005	<0.005	<0.005	<0.005	
MW-3	08/17/99	**0.043**	<0.005	<0.005	<0.005	
MW-3	02/17/00	**0.021**	<0.005	<0.005	<0.005	
MW-3	08/23/00	0.006	<0.005	<0.005	<0.005	
MW-3	02/08/01	0.004	0.001	0.002	0.005	
MW-3	07/30/01	0.002	<0.001	<0.001	<0.001	
MW-3	02/13/02	0.002	<0.001	<0.001	<0.001	
MW-3	09/27/02	<0.005	<0.005	<0.005	<0.005	
MW-3	04/25/03	<0.005	<0.005	<0.005	<0.005	
MW-3	09/18/03	0.002	<0.001	<0.001	<0.001	
MW-3	03/17/04	<0.001	<0.001	<0.001	<0.001	
MW-3	08/17/04	<0.001	<0.001	<0.001	<0.001	
MW-3	03/04/05	<0.001	<0.001	<0.001	<0.001	
MW-3	09/21/05	<0.001	<0.001	<0.001	<0.001	
MW-3	03/16/06	<0.001	<0.001	<0.001	<0.001	
MW-3	09/20/06	<0.001	<0.001	<0.001	<0.001	
MW-3	03/22/07	<0.001	<0.001	<0.001	<0.001	
MW-3	09/25/07	<0.001	<0.001	<0.001	<0.001	
MW-3	03/19/08	<0.00046	<0.00048	<0.00045	<0.0014	
MW-3	03/20/08	<0.002	<0.002	<0.002	<0.006	
MW-3	09/17/08	<0.002	<0.002	<0.002	<0.006	
MW-3	03/10/09	<0.002	<0.002	<0.002	<0.006	
MW-3	03/11/09	<0.00046	<0.00048	<0.00045	<0.0014	
MW-3	09/23/09	<0.002	<0.002	<0.002	<0.006	
MW-3	09/23/09	<0.00050	<0.00043	<0.00055	<0.0017	
MW-3	05/17/10	<0.002	<0.002	<0.002	<0.006	
MW-3	05/17/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-3	09/16/10	<0.001	<0.002	<0.002	<0.004	
MW-3	09/16/10	<0.00030	<0.0010	<0.00030	-	
MW-3	04/26/11	<0.001	<0.002	<0.002	<0.002	
MW-3	04/26/11	<0.00030	<0.0010	<0.00030	<0.00060	

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Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.010**	**1.00**	**0.70**	**0.62**	
MW-3	09/15/11	<0.001	<0.002	<0.002	<0.004	
MW-3	03/06/12	<0.005	<0.005	<0.005	<0.015	
MW-3	09/05/12	<0.005	<0.005	<0.005	<0.015	
MW-3	02/21/13	<0.001	<0.001	<0.001	<0.003	
MW-3	09/11/13	<0.001	<0.001	<0.001	<0.001	
MW-3	02/26/14	<0.001	<0.001	<0.001	<0.001	
MW-3	09/24/14	<0.001	<0.001	<0.001	<0.003	
MW-3	02/24/15	<0.001	<0.001	<0.001	<0.003	
MW-3	09/01/15	<0.001	<0.001	<0.001	<0.003	
MW-3	03/21/16	<0.001	<0.001	<0.001	<0.003	
MW-3	09/26/16	<0.001	<0.001	<0.001	<0.003	
MW-3	03/07/17	<0.001	<0.001	<0.001	<0.001	
MW-3	09/25/17	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	03/13/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	09/18/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	03/20/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	09/19/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	06/22/20	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	09/17/20	<0.00100	<0.00100	<0.00100	<0.00300	
MW-3	03/26/21	<0.00100	<0.00100	<0.00100	<0.00300	
MW-3	09/28/21	<0.00100	<0.00100	<0.00100	<0.00300	
MW-3	03/25/22	<0.00100	<0.00100	<0.00100	<0.00300	
MW-3	12/09/22	<0.00100	<0.00100	<0.00100	<0.00300	
MW-3	06/27/23	<0.00100	<0.00100	<0.00100	<0.00300	
MW-3	12/12/23	<0.00100	<0.00100	<0.00100	<0.00300	
MW-3	06/18/24	<0.00100	<0.00100	<0.00100	<0.00300	
MW-3	12/12/24	<0.00100	<0.00100	<0.00100	<0.00300	
MW-4	05/16/95	<0.001	<0.001	<0.001	<0.001	
MW-4	11/15/95	NS	0.006	0.002	0.1	
MW-4	01/18/96	0.003	<0.001	<0.001	<0.001	
MW-4	04/24/96	<0.002	<0.002	<0.002	<0.002	
MW-4	01/22/97	0.002	<0.001	<0.001	<0.001	
MW-4	08/11/97	0.001	<0.001	<0.001	<0.001	
MW-4	01/23/98	<0.001	<0.001	<0.001	<0.001	
MW-4	08/03/98	<0.001	<0.001	<0.001	<0.001	
MW-4	02/10/99	<0.001	<0.001	<0.001	<0.001	
MW-4	08/17/99	<0.001	<0.001	<0.001	0.001	
MW-4	02/17/00	<0.005	<0.005	<0.005	<0.005	
MW-4	08/23/00	<0.005	<0.005	<0.005	<0.005	
MW-4	02/08/01	0.002	<0.001	<0.001	0.002	
MW-4	07/30/01	<0.001	<0.001	<0.001	<0.001	
MW-4	02/13/02	NS	NS	NS	NS	
MW-4	09/27/02	NS	NS	NS	NS	
MW-4	04/25/03	<0.001	<0.001	<0.001	<0.001	
MW-4	09/18/03	<0.001	<0.001	<0.001	<0.001	
MW-4	03/17/04	<0.001	<0.001	<0.001	<0.001	
MW-4	08/17/04	<0.001	<0.001	<0.001	<0.001	
MW-4	03/04/05	<0.001	<0.001	<0.001	<0.001	
MW-4	09/21/05	<0.001	<0.001	<0.001	<0.001	
MW-4	03/16/06	<0.001	<0.001	<0.001	<0.001	
MW-4	09/20/06	<0.002	<0.001	<0.001	0.0043	
MW-4	03/22/07	<0.002	<0.001	<0.001	0.0036	
MW-4	09/25/07	<0.002	<0.001	<0.001	<0.001	
MW-4	03/19/08	<0.00046	<0.00048	<0.00045	<0.0014	
MW-4	03/20/08	<0.002	<0.002	<0.002	<0.006	
MW-4	09/17/08	<0.002	<0.002	<0.002	<0.006	
MW-4	03/10/09	<0.002	<0.002	<0.002	<0.006	
MW-4	03/11/09	<0.00046	<0.00048	<0.00045	<0.0014	
MW-4	09/23/09	<0.002	<0.002	<0.002	<0.006	
MW-4	09/23/09	<0.00050	<0.00043	<0.00055	<0.0017	
MW-4	05/17/10	<0.002	<0.002	<0.002	<0.006	
MW-4	05/17/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-4	09/16/10	<0.001	<0.002	<0.002	<0.004	
MW-4	09/16/10	<0.00030	<0.0010	<0.00030	-	
MW-4	04/26/11	<0.001	<0.002	<0.002	<0.002	
MW-4	06/02/11	<0.00025	<0.0010	<0.00050	<0.0020	

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MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.010**	**1.00**	**0.70**	**0.62**	
MW-4	09/15/11	<0.001	<0.002	<0.002	<0.004	
MW-4	03/06/12	<0.005	<0.005	<0.005	<0.015	
MW-4	09/05/12	<0.005	<0.005	<0.005	<0.015	
MW-4	02/21/13	<0.001	<0.001	<0.001	<0.003	
MW-4	09/11/13	<0.001	<0.001	<0.001	<0.001	
MW-4	02/26/14	<0.001	<0.001	<0.001	<0.001	
MW-4	09/24/14	<0.001	<0.001	<0.001	<0.003	
MW-4	02/24/15	<0.001	<0.001	<0.001	<0.003	
MW-4	09/01/15	<0.001	<0.001	<0.001	<0.003	
MW-4	03/21/16	<0.001	<0.001	<0.001	<0.003	
MW-4	09/26/16	<0.001	<0.001	<0.001	<0.003	
MW-4	03/07/17	<0.001	<0.001	<0.001	<0.001	
MW-4	09/25/17	<0.0010	<0.0010	<0.0010	<0.0030	
MW-4	03/13/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-4	09/18/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-4	03/20/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-4	09/19/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-4	06/22/20	0.000103 J	<0.0010	<0.0010	<0.0030	
MW-4	09/17/20	0.000163 J	<0.00100	<0.00100	<0.00300	
MW-4	03/26/21	<0.00100	<0.00100	<0.00100	<0.00300	
MW-4	09/28/21	<0.00100	<0.00100	<0.00100	<0.00300	
MW-4	03/25/22	<0.00100	<0.00100	<0.00100	<0.00300	
MW-4	12/09/22	<0.00100	<0.00100	<0.00100	<0.00300	
MW-4	06/27/23	<0.00100	<0.00100	<0.00100	<0.00300	
MW-4	12/12/23	<0.00100	<0.00100	<0.00100	<0.00300	
MW-4	06/18/24	<0.00100	<0.00100	<0.00100	<0.00300	
MW-4	12/12/24	<0.00100	<0.00100	<0.00100	<0.00300	
MW-5	09/15/11	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	03/06/12	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	09/05/12	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	02/21/13	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	09/11/13	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	02/26/14	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	09/24/14	Not Sampled - LNAPL Residue				
MW-5	02/24/15	Not Sampled - LNAPL				
MW-5	09/01/15	**0.034**	<0.005	0.073	<0.015	
MW-5	03/21/16	0.0078	<0.005	0.019	<0.015	
MW-5	09/26/16	0.0079	<0.001	0.0045	<0.003	
MW-5	03/07/17	**0.032**	<0.001	0.054	0.012	
MW-5	09/25/17	**0.0155**	<0.0010	0.0651	0.0108	
MW-5	03/13/18	**0.0151**	<0.0010	0.0117	0.00140 J	
MW-5	09/17/18	**0.0101**	<0.0010	0.0231	0.00118 J	
MW-5	03/20/19	**0.0147**	<0.0010	0.0283	0.00106 J	
MW-5	09/19/19	**0.0103**	<0.0010	0.0543	0.00106 J	
MW-5	06/22/20	**0.0131**	<0.0050	0.0385	<0.0150	
MW-5	09/17/20	**0.0140**	0.000429 J	0.0181	<0.00300	
MW-5	03/26/21	**0.0158**	0.000299 J	0.00236	<0.00300	
MW-5	09/28/21	**0.0189**	<0.00100	0.00622	0.000177 J	
MW-5	03/25/22	**0.0125**	<0.00100	0.00463	0.000289 J	
MW-5	12/09/22	**0.0173**	0.000614 J	0.00605	0.000642 J	0.04 ft LNAPL
MW-5 (Duplicate)	12/09/22	**0.0174**	0.000511 J	0.00560	0.000654 J	
MW-5	06/27/23	**0.0120**	0.000436 J	0.00849	0.000520 J	Duplicate sample collected
MW-5 (Duplicate)	06/27/23	**0.0119**	0.000343 J	0.00791	0.000709 J	
MW-5	12/12/23	**0.0116**	<0.00100	0.00573	0.015	Duplicate sample collected
MW-5 (Duplicate)	12/12/23	**0.0122**	0.000326 J	0.00564	0.000224 J	
MW-5	06/18/24	0.00802	<0.00500	0.00391 J	<0.0150	Duplicate sample collected
MW-5 (Duplicate)	06/18/24	0.00795	0.000313 J	0.00501	0.000558 J	
MW-5	12/12/24	0.00575	<0.00100	0.00261	0.00033 J	Duplicate sample collected
MW-5 (Duplicate)	12/12/24	0.00509	<0.00100	0.00253	0.00034 J	
MW-6	11/15/95	0.003	0.001	<0.001	0.003	
MW-6	01/18/96	0.002	<0.001	<0.001	<0.001	
MW-6	04/24/96	<0.001	<0.001	<0.001	<0.001	
MW-6	01/22/97	0.001	<0.001	<0.001	<0.001	
MW-6	08/11/97	<0.001	<0.001	<0.001	0.001	
MW-6	01/23/98	<0.001	<0.001	<0.001	<0.001	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.010**	**1.00**	**0.70**	**0.62**	
MW-6	08/03/98	<0.001	<0.001	<0.001	<0.001	
MW-6	02/10/99	<0.001	<0.001	<0.001	0.014	
MW-6	08/17/99	0.002	<0.001	<0.001	0.012	
MW-6	02/17/00	<0.001	0.004	<0.001	0.006	
MW-6	08/23/00	<0.001	0.004	<0.001	0.011	
MW-6	02/08/01	<0.001	<0.001	<0.001	0.011	
MW-6	07/30/01	<0.001	<0.001	<0.001	<0.001	
MW-6	02/13/02	<0.001	<0.001	<0.001	<0.001	
MW-6	09/27/02	<0.005	<0.005	<0.005	<0.005	
MW-6	04/25/03	<0.001	<0.001	<0.001	<0.001	
MW-6	09/18/03	0.002	<0.001	0.002	0.001	
MW-6	03/17/04	<0.001	<0.001	<0.001	<0.001	
MW-6	08/17/04	<0.001	<0.001	<0.001	<0.001	
MW-6	03/04/05	0.0061	<0.001	0.0032	<0.001	
MW-6	09/21/05	<0.001	<0.001	<0.001	<0.001	
MW-6	03/16/06	<0.001	<0.001	<0.001	<0.001	
MW-6	09/20/06	**0.0391**	<0.001	0.0287	0.0194	
MW-6	03/22/07	<0.001	<0.001	<0.001	0.0013	
MW-6	09/25/07	<0.001	<0.001	<0.001	<0.001	
MW-6	03/20/08	NS	NS	NS	NS	
MW-6	09/17/08	NS	NS	NS	NS	
MW-6	03/10/09	NS	NS	NS	NS	
MW-6	09/23/09	**0.035**	<0.002	0.0215	0.0052J	
MW-6	09/23/09	**0.035**	<0.00043	0.0215	0.0052	
MW-6	05/17/10	<0.002	<0.002	<0.002	<0.006	
MW-6	05/17/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-6	09/16/10	<0.001	<0.002	<0.002	<0.004	
MW-6	09/16/10	<0.00030	<0.0010	<0.00030	-	
MW-6	04/26/11	<0.001	<0.002	<0.002	<0.002	
MW-6	06/02/11	<0.00025	<0.0010	<0.00050	<0.0020	
MW-6	03/06/12	<0.005	<0.005	<0.005	<0.015	
MW-6	09/05/12	<0.005	<0.005	<0.005	<0.015	
MW-6	02/21/13	<0.001	<0.001	<0.001	<0.003	
MW-6	09/11/13	<0.001	<0.001	<0.001	<0.001	
MW-6	02/26/14	<0.001	<0.001	<0.001	<0.001	
MW-6	09/24/14	<0.001	<0.001	<0.001	<0.003	
MW-6	02/24/15	<0.001	<0.001	<0.001	<0.003	
MW-6	09/01/15	<0.001	<0.001	<0.001	<0.003	
MW-6	03/21/16	<0.001	<0.001	<0.001	<0.003	
MW-6	09/26/16	<0.001	<0.001	<0.001	<0.003	
MW-6	03/07/17	Removed from site sampling plan				
MW-6	12/09/22	<0.00100	<0.00100	<0.00100	<0.00300	
MW-6	06/27/23	Removed from site sampling plan				
MW-7	11/15/95	**0.465**	0.205	<0.001	0.163	
MW-7	01/18/96	**1.13**	0.476	0.003	0.365	
MW-7	04/24/96	**0.585**	0.251	<0.002	0.013	
MW-7	01/22/97	**0.896**	0.24	<0.005	0.33	
MW-7	08/11/97	**0.317**	0.155	0.2	0.049	
MW-7	01/23/98	**0.876**	0.486	<0.005	0.181	
MW-7	08/03/98	**0.094**	0.064	<0.005	0.007	
MW-7	02/10/99	**0.597**	0.44	<0.005	0.12	
MW-7	08/17/99	**0.705**	0.06	<0.005	0.556	
MW-7	02/17/00	**0.573**	0.49	<0.005	0.226	
MW-7	08/23/00	**0.546**	0.484	0.006	0.177	
MW-7	02/08/01	**0.355**	0.424	<0.005	0.052	
MW-7	07/30/01	**0.017**	0.058	<0.005	<0.005	
MW-7	02/13/02	**0.228**	0.094	<0.005	0.5	
MW-7	09/27/02	**0.015**	0.017	<0.005	<0.005	
MW-7	04/25/03	**0.157**	0.192	<0.005	0.02	
MW-7	09/18/03	**0.018**	0.023	<0.001	0.004	
MW-7	03/17/04	**0.125**	0.108	<0.10	0.033	
MW-7	08/17/04	**0.237**	0.081	<0.20	<0.020	
MW-7	03/04/05	**.125/.121**	<0.001	0.0467/0.0453	0.0202	
MW-7	09/21/05	**.15/0.148**	<0.001	0.079/0.0789	0.0248	
MW-7	03/16/06	**0.191**	0.0032	0.073	<0.001	
MW-7	09/20/06	**0.236**	<0.001	0.176	0.187	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.010**	**1.00**	**0.70**	**0.62**	
MW-7	03/22/07	**0.209/0.215**	<0.05/<0.01	.149/.121	0.116/0.0532	
MW-7	09/25/07	**0.465/0.458**	<0.01/<0.01	.318/.314	.0307/0.302	
MW-7	03/19/08	**0.161**	<0.00048	0.057	0.0295	
MW-7	03/20/08	**0.161/0.169**	<0.002/<0.002	.057/.0637	0.0295/0.0325	
MW-7	09/17/08	**0.083**	<0.002	0.0475	0.0204	
MW-7	03/10/09	**0.039**	<0.002	0.0177	0.0052 J	
MW-7	03/11/09	**0.0339**	<0.00048	0.0177	0.0052	
MW-7	09/23/09	**0.0332**	<0.00043	0.0176	0.0033	
MW-7	09/23/09	**0.0332/<0.002**	<0.002/<0.002	.0176/<0.002	0.0033J/<0.006	
MW-7	05/17/10	**0.0201/0.0198**	<0.002/<0.002	.0095/.0092	0.0033J/0.0033J	
MW-7	05/17/10	**0.0201**	<0.00043	0.0095	0.0033	
MW-7	09/16/10	**0.522/0.512**	<0.01/<0.01	0.294/0.289	0.0383/0.0378	
MW-7	09/16/10	**0.522**	<0.0050	0.294	-	
MW-7	04/26/11	0.0091/**0.0104**	<0.01/<0.01	0.0042/0.0041	<0.01/<0.01	
MW-7	04/26/11	0.0091	<0.0050	0.0042	<0.0030	
MW-7	09/15/11	**0.394**	<0.01	0.149	0.0442	Duplicate sample collected
MW-7	03/06/12	0.0098	<0.0050	0.0088	<0.015	
MW-7	09/05/12	**0.014**	<0.005	0.01	<0.015	Duplicate sample collected
MW-7	02/21/13	0.0059	<0.001	0.0049	<0.003	Duplicate sample collected
MW-7	09/11/13	0.0024	<0.001	0.0013	<0.001	Duplicate sample collected
MW-7	02/26/14	0.003	<0.001	<0.001	<0.001	Duplicate sample collected
MW-7	09/24/14	0.0023	<0.001	<0.001	<0.003	Duplicate sample collected
MW-7 (Duplicate)	09/24/14	0.0021	<0.001	<0.001	<0.003	
MW-7	02/24/15	0.0087	<0.001	0.0026	<0.003	Duplicate sample collected
MW-7 (Duplicate)	02/24/15	0.009	<0.001	0.0035	<0.003	
MW-7	09/01/15	**0.044**	<0.001	0.037	0.0094	Duplicate sample collected
MW-7 (Duplicate)	09/01/15	**0.049**	<0.001	0.039	0.01	
MW-7	03/21/16	**0.061**	<0.001	0.05	0.017	Duplicate sample collected
MW-7 (Duplicate)	03/21/16	**0.057**	<0.001	0.048	<0.015	
MW-7	09/26/16	**0.35**	<0.001	0.31	0.055	Duplicate sample collected
MW-7 (Duplicate)	09/26/16	**0.33**	<0.001	0.3	0.052	
MW-7	03/07/17	**0.11**	<0.001	0.0069	0.03	Duplicate sample collected
MW-7 (Duplicate)	03/07/17	**0.11**	<0.001	0.0014	0.029	
MW-7	09/25/17	**0.275**	<0.0010	0.0886	0.0389	Duplicate sample collected
MW-7 (Duplicate)	09/25/17	**0.279**	<0.0010	0.0868	0.0383	
MW-7	03/13/18	**0.175**	<0.0010	0.0875	0.0395	Duplicate sample collected
MW-7 (Duplicate)	03/13/18	**0.169**	<0.0010	0.0813	0.0366	
MW-7	09/17/18	**0.0852**	<0.0010	0.122	0.0462	Duplicate sample collected
MW-7 (Duplicate)	09/17/18	**0.0803**	<0.0010	0.111	0.0422	
MW-7	03/20/19	**0.0326**	<0.0010	0.0374	0.0192	Duplicate sample collected
MW-7 (Duplicate)	03/20/19	**0.0327**	<0.0010	0.0367	0.0189	
MW-7	09/19/19	**0.0173**	<0.0010	0.0206	0.00775	Duplicate sample collected
MW-7 (Duplicate)	09/19/19	**0.0169**	<0.0010	0.0197	0.00716	
MW-7	06/22/20	**0.0444**	<0.0010	0.0518	0.0253	Duplicate sample collected
MW-7 (Duplicate)	06/22/20	**0.0437**	<0.0010	0.0509	0.0251	
MW-7	09/17/20	**0.0147**	<0.00100	0.00837	0.00225 J	Duplicate sample collected
MW-7 (Duplicate)	09/17/20	**0.0150**	<0.00100	0.00880	0.00238 J	
MW-7	03/26/21	0.00208	<0.00100	0.000288 J	<0.00300	Duplicate sample collected
MW-7 (Duplicate)	03/26/21	0.00209	<0.00100	0.000273 J	<0.00300	
MW-7	09/28/21	**0.0378**	<0.00100	0.0135	0.00508	Duplicate sample collected
MW-7 (Duplicate)	09/28/21	**0.0383**	<0.00100	0.01380	0.00528	
MW-7	03/25/22	0.000546 J	<0.00100	<0.00100	<0.00300	Duplicate sample collected
MW-7 (Duplicate)	03/25/22	0.000561 J	<0.00100	<0.00100	<0.00300	
MW-7	12/09/22	**0.0185**	<0.00100	0.00553	0.00127 J	
MW-7	06/27/23	0.00214	<0.00100	0.000555 J	0.000402 J	
MW-7	12/12/23	0.00118	<0.00100	0.000376 J	0.000289 J	
MW-7	06/18/24	0.000665 J	<0.00100	0.000161 J	<0.00300	
MW-7	12/12/24	0.00798	<0.00100	0.00601	0.00094 J	
Trip Blank	02/26/14	<0.001	<0.001	<0.001	<0.001	
Trip Blank	09/24/14	<0.001	<0.001	<0.001	<0.003	
Trip Blank	02/24/15	<0.001	<0.001	<0.001	<0.003	
Trip Blank	09/01/15	<0.001	<0.001	<0.001	<0.003	
Trip Blank	03/21/16	<0.001	<0.001	<0.001	<0.003	
Trip Blank	09/26/16	<0.001	<0.001	<0.001	<0.003	
Trip Blank	03/07/17	<0.001	<0.001	<0.001	<0.001	
Trip Blank	09/25/17	<0.0010	<0.0010	<0.0010	<0.0030	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.010**	**1.00**	**0.70**	**0.62**	
Trip Blank	03/13/18	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	09/18/18	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	03/20/19	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	09/19/19	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	06/22/20	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	09/17/20	<0.00100	<0.00100	<0.00100	<0.00300	
Trip Blank	03/26/21	<0.00100	<0.00100	<0.00100	<0.00300	
Trip Blank	09/28/21	<0.00100	<0.00100	<0.00100	<0.00300	
Trip Blank	03/25/22	0.000155 J	0.000402 J	<0.00100	<0.00300	
Trip Blank	12/09/22	<0.00100	0.000338 J	<0.00100	<0.00300	
Trip Blank	06/27/23	<0.00100	<0.00100	<0.00100	<0.00300	
Trip Blank	12/12/23	<0.00100	<0.00100	<0.00100	<0.00300	
Trip Blank	06/18/24	<0.00100	<0.00100	<0.00100	<0.00300	
Trip Blank	12/12/24	<0.00100	<0.00100	<0.00100	<0.00300	

Bold red values indicate an exceedance of the NMWQCC groundwater standards for the Site.
NMWQCC = New Mexico Water Quality Control Commission
LNAPL = Light Non-Aqueous Phase Liquid
J = Estimated Value
NS = Not Sampled
mg/L = milligrams per liter
*Groundwater and surface water protection regulations for toluene were amended and became effective on December 21, 2018.
J = A qualifier indicating an estimated value of a concentration above the laboratory's Method Detection Limit (MDL) but below the Reporting Limit (RL).

Appendix B

Laboratory Analytical Report

- Pace Laboratories Job #: L1748470
- Pace Laboratories Job #: L1809476

Pace Analytical®

ANALYTICAL REPORT

June 27, 2024

Phillips 66 - Tasman

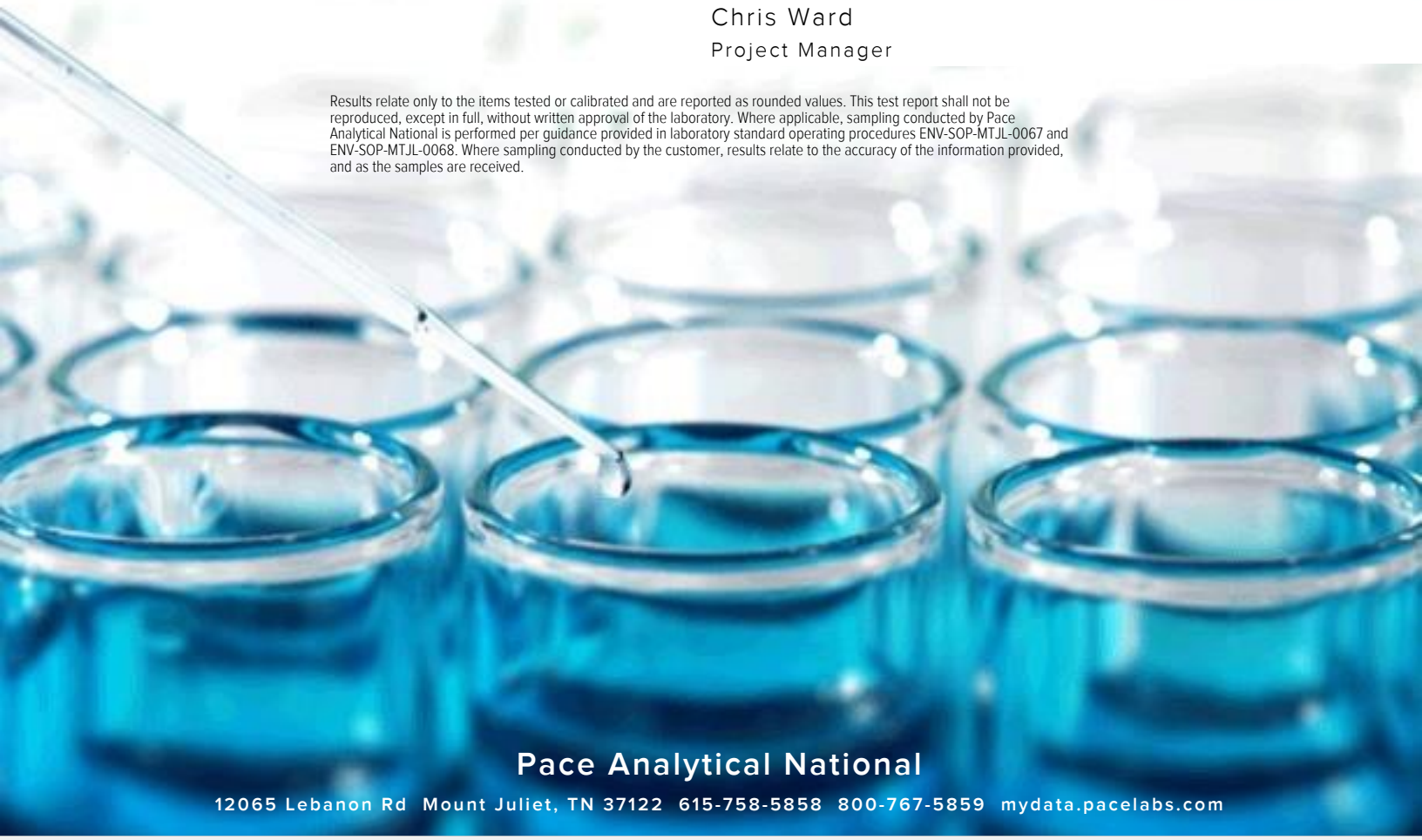
Sample Delivery Group:	L1748470
Samples Received:	06/19/2024
Project Number:	400128008
Description:	Monument Booster Station

Report To: Brett Dennis
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 mydata.pacelabs.com

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SAMPLE SUMMARY

MW-1D L1748470-01 GW

Collected by: Kendon Stark | Collected date/time: 06/18/24 10:06 | Received date/time: 06/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2311340	1	06/25/24 11:22	06/25/24 11:22	ACG	Mt. Juliet, TN

MW-2 L1748470-02 GW

Collected by: Kendon Stark | Collected date/time: 06/18/24 09:14 | Received date/time: 06/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2311340	1	06/25/24 11:41	06/25/24 11:41	ACG	Mt. Juliet, TN

MW-3 L1748470-03 GW

Collected by: Kendon Stark | Collected date/time: 06/18/24 09:36 | Received date/time: 06/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2311483	1	06/25/24 14:51	06/25/24 14:51	DYW	Mt. Juliet, TN

MW-4 L1748470-04 GW

Collected by: Kendon Stark | Collected date/time: 06/18/24 09:53 | Received date/time: 06/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2311483	1	06/25/24 15:14	06/25/24 15:14	DYW	Mt. Juliet, TN

MW-5 L1748470-05 GW

Collected by: Kendon Stark | Collected date/time: 06/18/24 10:49 | Received date/time: 06/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2311483	5	06/25/24 16:49	06/25/24 16:49	DYW	Mt. Juliet, TN

MW-7 L1748470-06 GW

Collected by: Kendon Stark | Collected date/time: 06/18/24 10:23 | Received date/time: 06/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2311483	1	06/25/24 15:38	06/25/24 15:38	DYW	Mt. Juliet, TN

DUPLICATE L1748470-07 GW

Collected by: Kendon Stark | Collected date/time: 06/18/24 00:00 | Received date/time: 06/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2312891	1	06/26/24 21:51	06/26/24 21:51	ACG	Mt. Juliet, TN

TRIP BLANK L1748470-08 GW

Collected by: Kendon Stark | Collected date/time: 06/18/24 11:14 | Received date/time: 06/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2311483	1	06/25/24 10:30	06/25/24 10:30	DYW	Mt. Juliet, TN

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

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Lab Sample ID	Project Sample ID	Method
L1748470-07	DUPLICATE	8260B

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	0.000216	J	0.0000941	0.00100	1	06/25/2024 11:22	WG2311340
Toluene	U		0.000278	0.00100	1	06/25/2024 11:22	WG2311340
Ethylbenzene	U		0.000137	0.00100	1	06/25/2024 11:22	WG2311340
Total Xylenes	U		0.000174	0.00300	1	06/25/2024 11:22	WG2311340
(S) Toluene-d8	*115*			*80.0-120*		*06/25/2024 11:22*	WG2311340
(S) 4-Bromofluorobenzene	*93.7*			*77.0-126*		*06/25/2024 11:22*	WG2311340
(S) 1,2-Dichloroethane-d4	*95.4*			*70.0-130*		*06/25/2024 11:22*	WG2311340

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	U		0.0000941	0.00100	1	06/25/2024 11:41	WG2311340
Toluene	U		0.000278	0.00100	1	06/25/2024 11:41	WG2311340
Ethylbenzene	U		0.000137	0.00100	1	06/25/2024 11:41	WG2311340
Total Xylenes	U		0.000174	0.00300	1	06/25/2024 11:41	WG2311340
(S) Toluene-d8	*112*			*80.0-120*		*06/25/2024 11:41*	WG2311340
(S) 4-Bromofluorobenzene	*94.6*			*77.0-126*		*06/25/2024 11:41*	WG2311340
(S) 1,2-Dichloroethane-d4	*97.5*			*70.0-130*		*06/25/2024 11:41*	WG2311340

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	U		0.0000941	0.00100	1	06/25/2024 14:51	WG2311483
Toluene	U		0.000278	0.00100	1	06/25/2024 14:51	WG2311483
Ethylbenzene	U		0.000137	0.00100	1	06/25/2024 14:51	WG2311483
Total Xylenes	U		0.000174	0.00300	1	06/25/2024 14:51	WG2311483
(S) Toluene-d8	*115*			*80.0-120*		*06/25/2024 14:51*	WG2311483
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*06/25/2024 14:51*	WG2311483
(S) 1,2-Dichloroethane-d4	*99.9*			*70.0-130*		*06/25/2024 14:51*	WG2311483

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	U		0.0000941	0.00100	1	06/25/2024 15:14	WG2311483
Toluene	U		0.000278	0.00100	1	06/25/2024 15:14	WG2311483
Ethylbenzene	U		0.000137	0.00100	1	06/25/2024 15:14	WG2311483
Total Xylenes	U		0.000174	0.00300	1	06/25/2024 15:14	WG2311483
(S) Toluene-d8	*112*			*80.0-120*		*06/25/2024 15:14*	WG2311483
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*06/25/2024 15:14*	WG2311483
(S) 1,2-Dichloroethane-d4	*98.0*			*70.0-130*		*06/25/2024 15:14*	WG2311483

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	0.00802		0.000471	0.00500	5	06/25/2024 16:49	WG2311483
Toluene	U		0.00139	0.00500	5	06/25/2024 16:49	WG2311483
Ethylbenzene	0.00391	J	0.000685	0.00500	5	06/25/2024 16:49	WG2311483
Total Xylenes	U		0.000870	0.0150	5	06/25/2024 16:49	WG2311483
(S) Toluene-d8	*108*			*80.0-120*		*06/25/2024 16:49*	WG2311483
(S) 4-Bromofluorobenzene	*119*			*77.0-126*		*06/25/2024 16:49*	WG2311483
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*06/25/2024 16:49*	WG2311483

Sample Narrative:

L1748470-05 WG2311483: Non-target compounds too high to run at a lower dilution.

MW-7
Collected date/time: 06/18/24 10:23
L1748470

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	0.000665	J	0.0000941	0.00100	1	06/25/2024 15:38	WG2311483
Toluene	U		0.000278	0.00100	1	06/25/2024 15:38	WG2311483
Ethylbenzene	0.000161	J	0.000137	0.00100	1	06/25/2024 15:38	WG2311483
Total Xylenes	U		0.000174	0.00300	1	06/25/2024 15:38	WG2311483
(S) Toluene-d8	*111*			*80.0-120*		*06/25/2024 15:38*	WG2311483
(S) 4-Bromofluorobenzene	*113*			*77.0-126*		*06/25/2024 15:38*	WG2311483
(S) 1,2-Dichloroethane-d4	*99.6*			*70.0-130*		*06/25/2024 15:38*	WG2311483

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	0.00795		0.0000941	0.00100	1	06/26/2024 21:51	WG2312891
Toluene	0.000313	J	0.000278	0.00100	1	06/26/2024 21:51	WG2312891
Ethylbenzene	0.00501		0.000137	0.00100	1	06/26/2024 21:51	WG2312891
Total Xylenes	0.000558	J	0.000174	0.00300	1	06/26/2024 21:51	WG2312891
(S) Toluene-d8	*98.6*			*80.0-120*		*06/26/2024 21:51*	WG2312891
(S) 4-Bromofluorobenzene	*127*	J1		*77.0-126*		*06/26/2024 21:51*	WG2312891
(S) 1,2-Dichloroethane-d4	*123*			*70.0-130*		*06/26/2024 21:51*	WG2312891

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Collected date/time: 06/18/24 11:14
L1748470

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	06/25/2024 10:30	WG2311483
Toluene	U		0.000278	0.00100	1	06/25/2024 10:30	WG2311483
Ethylbenzene	U		0.000137	0.00100	1	06/25/2024 10:30	WG2311483
Total Xylenes	U		0.000174	0.00300	1	06/25/2024 10:30	WG2311483
(S) Toluene-d8	*112*			*80.0-120*		*06/25/2024 10:30*	WG2311483
(S) 4-Bromofluorobenzene	*112*			*77.0-126*		*06/25/2024 10:30*	WG2311483
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*06/25/2024 10:30*	WG2311483

Method Blank (MB)

(MB) R4086153-3 06/25/24 01:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Total Xylenes	U		0.000174	0.00300
(S) Toluene-d8	*115*			*80.0-120*
(S) 4-Bromofluorobenzene	*93.8*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*95.1*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4086153-1 06/25/24 00:14 • (LCSD) R4086153-2 06/25/24 00:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00438	0.00416	87.6	83.2	70.0-123			5.15	20
Toluene	0.00500	0.00511	0.00498	102	99.6	79.0-120			2.58	20
Ethylbenzene	0.00500	0.00513	0.00496	103	99.2	79.0-123			3.37	20
Total Xylenes	0.0150	0.0152	0.0150	101	100	79.0-123			1.32	20
(S) Toluene-d8				*110*	*113*	*80.0-120*				
(S) 4-Bromofluorobenzene				*96.1*	*94.1*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*102*	*101*	*70.0-130*				

Method Blank (MB)

(MB) R4086914-3 06/25/24 09:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Total Xylenes	U		0.000174	0.00300
(S) Toluene-d8	*110*			*80.0-120*
(S) 4-Bromofluorobenzene	*110*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4086914-1 06/25/24 08:31 • (LCSD) R4086914-2 06/25/24 08:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00459	0.00454	91.8	90.8	70.0-123			1.10	20
Toluene	0.00500	0.00430	0.00450	86.0	90.0	79.0-120			4.55	20
Ethylbenzene	0.00500	0.00422	0.00445	84.4	89.0	79.0-123			5.31	20
Total Xylenes	0.0150	0.0130	0.0134	86.7	89.3	79.0-123			3.03	20
(S) Toluene-d8				*103*	*104*	*80.0-120*				
(S) 4-Bromofluorobenzene				*107*	*105*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*102*	*98.5*	*70.0-130*				

L1748455-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1748455-01 06/25/24 14:27 • (MS) R4086914-4 06/25/24 18:01 • (MSD) R4086914-5 06/25/24 18:25

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 %
Benzene	0.00500	U	0.00618	0.00621	124	124	1	17.0-158			0.484	27
Toluene	0.00500	U	0.00556	0.00578	111	116	1	26.0-154			3.88	28
Ethylbenzene	0.00500	U	0.00590	0.00592	118	118	1	30.0-155			0.338	27
Total Xylenes	0.0150	U	0.0172	0.0175	115	117	1	29.0-154			1.73	28
(S) Toluene-d8					*105*	*104*		*80.0-120*				
(S) 4-Bromofluorobenzene					*105*	*107*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*102*	*100*		*70.0-130*				

Method Blank (MB)

(MB) R4087345-3 06/26/24 18:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Total Xylenes	U		0.000174	0.00300
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*102*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*124*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4087345-1 06/26/24 17:48 • (LCSD) R4087345-2 06/26/24 18:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00463	0.00445	92.6	89.0	70.0-123			3.96	20
Toluene	0.00500	0.00493	0.00469	98.6	93.8	79.0-120			4.99	20
Ethylbenzene	0.00500	0.00481	0.00496	96.2	99.2	79.0-123			3.07	20
Total Xylenes	0.0150	0.0150	0.0144	100	96.0	79.0-123			4.08	20
(S) Toluene-d8				*105*	*102*	*80.0-120*				
(S) 4-Bromofluorobenzene				*108*	*105*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*124*	*123*	*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
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.

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.

Company Name/Address:	Billing Information:	Pres Chk	Analysis / Container / Preservative	Chain of Custody Page ___ of ___
Phillips 66 - Tasman 2620 W. Marland Blvd Hobbs, NM 88240	Steve Weathers 370 17th St, Ste 2500 Denver, CO 80202			Pace PEOPLE ADVANCING SCIENCE MT JULIET, TN 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
Report to: Brett Dennis	Email To: knorman@tasman-geo.com;Stephen.Weathers@p66.com;bdennis			SDG # 1748470 B207
Project Description: Monument Booster Station	City/State Collected:	Please Circle: PT MT CT ET		
Phone: 720-218-4003	Client Project #	Lab Project # DCPTASMAN-MONUMENT		Acctnum: DCPTASMAN
Collected by (print): Kendon Stark	Site/Facility ID #	P.O. # 4301350814		Template: T127836
Collected by (signature): [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	Quote # Date Results Needed		Prelogin: P1080157 PM: 824 - Chris Ward PB: Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEX 40mlAmb-HCl	V8260BTEX 40mlAmb-HCl-Blk	Remarks	Sample # (lab only)
~~MW-1~~	Grab	GW	NA	6.18.24	—	~~3~~	~~X~~			
MW-1D	↓	GW	↓	↓	10:06	3	X			-01
MW-2		GW			09:14	3	X			-02
MW-3		GW			09:36	3	X			-03
MW-4		GW			09:53	3	X			-04
MW-5		GW			10:49	3	X			-05
MW-7		GW			10:23	3	X			-06
DUPLICATE		GW			NA	3	X			-07
TRIP BLANK	✓	GW	✓	✓	11:14	3		X		-08
		GW				3	X			

* 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 # 7315 3193 9360

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR (3)
[signature]	6.18.24	11:18		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: EDA °C 1.0+.2=1.8 Bottles Received: 21
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Alissa Mitchell	Date: 6/19/24 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ANALYTICAL REPORT

December 20, 2024

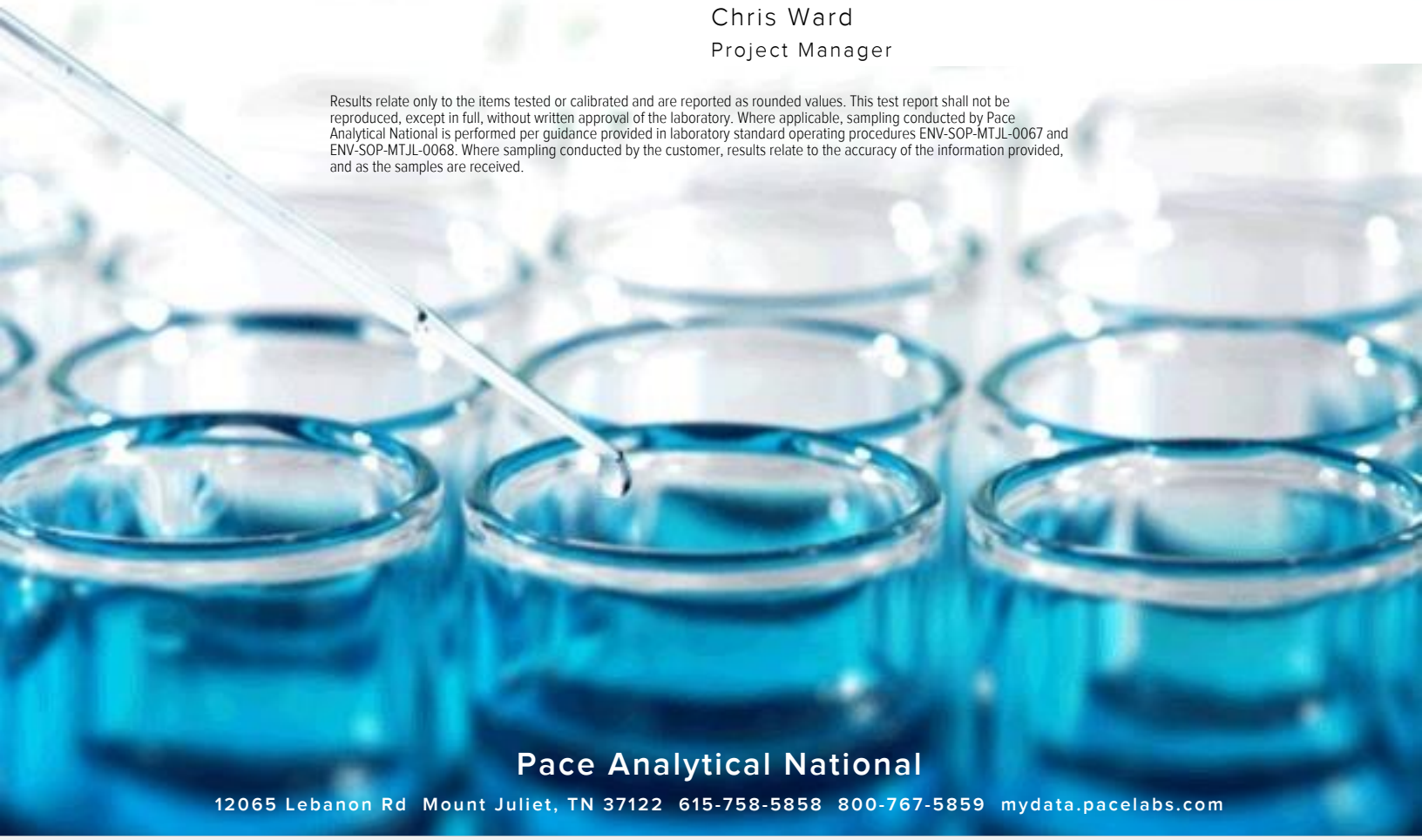
Phillips 66 - Tasman

Sample Delivery Group:	L1809476
Samples Received:	12/13/2024
Project Number:	400128008
Description:	Monument Booster Station

Report To: Brett Dennis
2620 W. Marland Blvd
Hobbs, NM 88240

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager



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

TABLE OF CONTENTS

MW-1 L1809476-01 GW

Collected by: Kendon Stark | Collected date/time: 12/12/24 13:03 | Received date/time: 12/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2421277	1	12/19/24 17:47	12/19/24 17:47	DYW	Mt. Juliet, TN

MW-1D L1809476-02 GW

Collected by: Kendon Stark | Collected date/time: 12/12/24 12:31 | Received date/time: 12/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2420552	1	12/18/24 02:56	12/18/24 02:56	ACG	Mt. Juliet, TN

MW-2 L1809476-03 GW

Collected by: Kendon Stark | Collected date/time: 12/12/24 10:53 | Received date/time: 12/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2420552	1	12/18/24 03:16	12/18/24 03:16	ACG	Mt. Juliet, TN

MW-3 L1809476-04 GW

Collected by: Kendon Stark | Collected date/time: 12/12/24 11:24 | Received date/time: 12/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2420552	1	12/18/24 03:36	12/18/24 03:36	ACG	Mt. Juliet, TN

MW-4 L1809476-05 GW

Collected by: Kendon Stark | Collected date/time: 12/12/24 11:52 | Received date/time: 12/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2420552	1	12/18/24 03:57	12/18/24 03:57	ACG	Mt. Juliet, TN

MW-5 L1809476-06 GW

Collected by: Kendon Stark | Collected date/time: 12/12/24 13:33 | Received date/time: 12/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2420552	1	12/18/24 04:17	12/18/24 04:17	ACG	Mt. Juliet, TN

MW-7 L1809476-07 GW

Collected by: Kendon Stark | Collected date/time: 12/12/24 12:15 | Received date/time: 12/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2420552	1	12/18/24 04:38	12/18/24 04:38	ACG	Mt. Juliet, TN

DUPLICATE L1809476-08 GW

Collected by: Kendon Stark | Collected date/time: 12/12/24 00:00 | Received date/time: 12/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2420552	1	12/18/24 04:58	12/18/24 04:58	ACG	Mt. Juliet, TN

TRIP BLANK L1809476-09 GW

Collected by: Kendon Stark
Collected date/time: 12/12/24 00:00
Received date/time: 12/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2420552	1	12/17/24 22:29	12/17/24 22:29	ACG	Mt. Juliet, TN

CASE NARRATIVE

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

Chris Ward
Project Manager

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	8.35		0.0941	1.00	1	12/19/2024 17:47	WG2421277
Toluene	U		0.278	1.00	1	12/19/2024 17:47	WG2421277
Ethylbenzene	3.49		0.137	1.00	1	12/19/2024 17:47	WG2421277
Total Xylenes	0.769	J	0.174	3.00	1	12/19/2024 17:47	WG2421277
(S) Toluene-d8	*103*			*80.0-120*		*12/19/2024 17:47*	WG2421277
(S) 4-Bromofluorobenzene	*96.9*			*77.0-126*		*12/19/2024 17:47*	WG2421277
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*12/19/2024 17:47*	WG2421277

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	0.286	J	0.0941	1.00	1	12/18/2024 02:56	WG2420552
Toluene	U		0.278	1.00	1	12/18/2024 02:56	WG2420552
Ethylbenzene	U		0.137	1.00	1	12/18/2024 02:56	WG2420552
Total Xylenes	U		0.174	3.00	1	12/18/2024 02:56	WG2420552
(S) Toluene-d8	*106*			*80.0-120*		*12/18/2024 02:56*	WG2420552
(S) 4-Bromofluorobenzene	*85.2*			*77.0-126*		*12/18/2024 02:56*	WG2420552
(S) 1,2-Dichloroethane-d4	*98.7*			*70.0-130*		*12/18/2024 02:56*	WG2420552

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	12/18/2024 03:16	WG2420552
Toluene	U		0.278	1.00	1	12/18/2024 03:16	WG2420552
Ethylbenzene	U		0.137	1.00	1	12/18/2024 03:16	WG2420552
Total Xylenes	U		0.174	3.00	1	12/18/2024 03:16	WG2420552
(S) Toluene-d8	*102*			*80.0-120*		*12/18/2024 03:16*	WG2420552
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*12/18/2024 03:16*	WG2420552
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*12/18/2024 03:16*	WG2420552

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	12/18/2024 03:36	WG2420552
Toluene	U		0.278	1.00	1	12/18/2024 03:36	WG2420552
Ethylbenzene	U		0.137	1.00	1	12/18/2024 03:36	WG2420552
Total Xylenes	U		0.174	3.00	1	12/18/2024 03:36	WG2420552
(S) Toluene-d8	*107*			*80.0-120*		*12/18/2024 03:36*	WG2420552
(S) 4-Bromofluorobenzene	*95.8*			*77.0-126*		*12/18/2024 03:36*	WG2420552
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*12/18/2024 03:36*	WG2420552

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	12/18/2024 03:57	WG2420552
Toluene	U		0.278	1.00	1	12/18/2024 03:57	WG2420552
Ethylbenzene	U		0.137	1.00	1	12/18/2024 03:57	WG2420552
Total Xylenes	U		0.174	3.00	1	12/18/2024 03:57	WG2420552
(S) Toluene-d8	*106*			*80.0-120*		*12/18/2024 03:57*	WG2420552
(S) 4-Bromofluorobenzene	*95.9*			*77.0-126*		*12/18/2024 03:57*	WG2420552
(S) 1,2-Dichloroethane-d4	*99.6*			*70.0-130*		*12/18/2024 03:57*	WG2420552

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	5.75		0.0941	1.00	1	12/18/2024 04:17	WG2420552
Toluene	U		0.278	1.00	1	12/18/2024 04:17	WG2420552
Ethylbenzene	2.61		0.137	1.00	1	12/18/2024 04:17	WG2420552
Total Xylenes	0.333	J	0.174	3.00	1	12/18/2024 04:17	WG2420552
(S) Toluene-d8	*106*			*80.0-120*		*12/18/2024 04:17*	WG2420552
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*12/18/2024 04:17*	WG2420552
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*12/18/2024 04:17*	WG2420552

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	7.98		0.0941	1.00	1	12/18/2024 04:38	WG2420552
Toluene	U		0.278	1.00	1	12/18/2024 04:38	WG2420552
Ethylbenzene	6.01		0.137	1.00	1	12/18/2024 04:38	WG2420552
Total Xylenes	0.941	J	0.174	3.00	1	12/18/2024 04:38	WG2420552
(S) Toluene-d8	*106*			*80.0-120*		*12/18/2024 04:38*	WG2420552
(S) 4-Bromofluorobenzene	*99.9*			*77.0-126*		*12/18/2024 04:38*	WG2420552
(S) 1,2-Dichloroethane-d4	*98.7*			*70.0-130*		*12/18/2024 04:38*	WG2420552

DUPLICATE
Collected date/time: 12/12/24 00:00
L1809476

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	5.09		0.0941	1.00	1	12/18/2024 04:58	WG2420552
Toluene	U		0.278	1.00	1	12/18/2024 04:58	WG2420552
Ethylbenzene	2.53		0.137	1.00	1	12/18/2024 04:58	WG2420552
Total Xylenes	0.337	J	0.174	3.00	1	12/18/2024 04:58	WG2420552
(S) Toluene-d8	*106*			*80.0-120*		*12/18/2024 04:58*	WG2420552
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*12/18/2024 04:58*	WG2420552
(S) 1,2-Dichloroethane-d4	*91.2*			*70.0-130*		*12/18/2024 04:58*	WG2420552

TRIP BLANK
Collected date/time: 12/12/24 00:00
L1809476

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	12/17/2024 22:29	WG2420552
Toluene	U		0.278	1.00	1	12/17/2024 22:29	WG2420552
Ethylbenzene	U		0.137	1.00	1	12/17/2024 22:29	WG2420552
Total Xylenes	U		0.174	3.00	1	12/17/2024 22:29	WG2420552
(S) Toluene-d8	*107*			*80.0-120*		*12/17/2024 22:29*	WG2420552
(S) 4-Bromofluorobenzene	*94.8*			*77.0-126*		*12/17/2024 22:29*	WG2420552
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*12/17/2024 22:29*	WG2420552

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

Method Blank (MB)

(MB) R4159389-3 12/17/24 21:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Toluene	U		0.278	1.00
Ethylbenzene	U		0.137	1.00
Total Xylenes	U		0.174	3.00
(S) Toluene-d8	*106*			*80.0-120*
(S) 4-Bromofluorobenzene	*94.6*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4159389-1 12/17/24 20:46 • (LCSD) R4159389-2 12/17/24 21:07

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	4.50	4.56	90.0	91.2	70.0-123			1.32	20
Toluene	5.00	4.87	4.89	97.4	97.8	79.0-120			0.410	20
Ethylbenzene	5.00	4.58	4.70	91.6	94.0	79.0-123			2.59	20
Total Xylenes	15.0	14.0	14.1	93.3	94.0	79.0-123			0.712	20
(S) Toluene-d8				*104*	*105*	*80.0-120*				
(S) 4-Bromofluorobenzene				*97.9*	*97.4*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*104*	*104*	*70.0-130*				

Method Blank (MB)

(MB) R4160196-2 12/19/24 10:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Toluene	U		0.278	1.00
Ethylbenzene	U		0.137	1.00
Total Xylenes	U		0.174	3.00
(S) Toluene-d8	*104*			*80.0-120*
(S) 4-Bromofluorobenzene	*93.0*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4160196-1 12/19/24 09:54

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	5.00	4.25	85.0	70.0-123	
Toluene	5.00	4.24	84.8	79.0-120	
Ethylbenzene	5.00	4.32	86.4	79.0-123	
Total Xylenes	15.0	13.3	88.7	79.0-123	
(S) Toluene-d8			*98.9*	*80.0-120*	
(S) 4-Bromofluorobenzene			*93.6*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*110*	*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.
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
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	LAO000356
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.

Company Name/Address:
Phillips 66 - Tasman
2620 W. Marland Blvd
Hobbs, NM 88240

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

Pres Chk

Report to: **Brett Dennis**

Email To: **knorman@tasman-geo.com;Stephen.Weathers@p66.com;bdennis**

Project Description: **Monument Booster Station**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **720-218-4003**

Client Project #

Lab Project # **DCPTASMAN-MONUMENT**

Collected by (print): Kendon Stark

Site/Facility ID #

P.O. # **4301459945**

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

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

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 # 180947

B085

Acctnum: **DCPTASMAN**
Template: **T127836**
Prelogin: **P1118960**
PM: **824 - Chris Ward**
PB: NR 12/12/24

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEX 40mlAmb-HCl	V8260BTEX 40mlAmb-HCl-Blk	Remarks	Sample # (lab only)
MW-1	Grab	GW	NA	12/12/24	13:03	3	X			-01
MW-1D		GW			12:31	3	X			-02
MW-2		GW			10:53	3	X			-03
MW-3		GW			11:24	3	X			-04
MW-4		GW			11:52	3	X			-05
MW-5		GW			13:33	3	X			-06
MW-7		GW			12:15	3	X			-07
DUPLICATE		GW			—	3	X			-08
TRIP BLANK		GW			—	3		X		-09
		GW				3	X			

* 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 # 4257 0928 9354

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

Relinquished by : (Signature)	Date: 12/12/24	Time: 14:10	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: MSAS °C Bottles Received: 3.6+0=5.6 24
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Alexa Mitchell	Date: 12/13/24 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Appendix C

NMOCD Sampling Notifications

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

QUESTIONS

Action 352673

QUESTIONS

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID: 36785
	Action Number: 352673
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAUTOfAB000403**
Incident Name	**NAUTOFAB000403 MONUMENT BOOSTER STATION GW-EFR @ 0**
Incident Type	**Release Other**
Incident Status	**Notification Accepted**
Incident Facility	**[fAB00000000229] MONUMENT BOOSTER STATION**

Location of Release Source	
Site Name	**MONUMENT BOOSTER STATION GW-EFR**
Date Release Discovered	**01/03/1994**
Surface Owner	**Private**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	148,000
What is the estimated number of samples that will be gathered	7
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/18/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Groundwater abatement per 19.15.30.14B NMAC
Please provide any information necessary for navigation to sampling site	Please contact Brett Dennis 3256607395

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CONDITIONS

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID: 36785
	Action Number: 352673
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
knorman	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	6/10/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 447326

CONDITIONS

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID: 36785
	Action Number: 447326
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2024 Annual Groundwater Monitoring Summary Report for Monument Booster Station (1RP-1560): content satisfactory 1. Continue to conduct groundwater sampling on a semi-annual basis for MW-1 through MW-7 2. Report on results of the EFR effectiveness at the site. If the effectiveness of events has significantly hindered the recovery of LNAPL, propose another method for the residual TPH. 3. Submit the 2025 Annual Groundwater Monitoring Report for Monument Booster Station with results, by April 1, 2026.	4/7/2025