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TALON LPE

2024 Annual Groundwater Monitoring Report

Lovington Deep 6”
Lea County, New Mexico
SRS # 2002-10312
NMOCD REF. # AP-037, nAPP2109530339

Prepared For:
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August 5, 2025

2024 ANNUAL GROUNDWATER MONITORING REPORT

Lovington Deep 6"
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NMOCD – New Mexico Oil Conservation Division

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APPENDICES

1. INTRODUCTION AND SITE HISTORY

The Lovington Deep 6", hereinafter referred to as the "site", is located approximately 5.8 miles southwest of Lovington, New Mexico in Unit H, Section 6, Township 16 South, and Range 36 East. A release of crude oil from the Plains Deep 6" pipeline occurred on property which is owned by Chevron and primarily utilized as pasture/range with intermittent oil production facilities. The site is located within the West Lovington oil field and has no residence or surface water located within a 1,000-foot radius of the release point. The remediation area is surrounded by a barbed wire fence and is gated.

The site is situated within a physiographic region that is on the extreme south-western portion of the Southern High Plains as it grades into the Edwards Plateau to the south and southeast and the Chihuahuan Desert of the Trans-Pecos Region to the southwest.

The topography proximal to the site is typical of the Southern High Plains, essentially flat with shallow depressions, or playa lakes, dotting the landscape. The prominent surface features on the Southern High Plains are the approximately 19,250 ephemeral playa lakes; however, the density of the playa lakes diminishes toward the southern extent of the Southern High Plains. During periods of rainfall, the playa lakes accumulate sheet runoff from watershed areas ranging in size from less than one (1) square mile to several square miles. Only a small portion of drainage from rainfall occurs by streams. Playa lakes that collect storm water runoff can act as a recharge mechanism for groundwater.

The average elevation of the site area is approximately 3,915 feet above mean sea level with a slight slope generally to the southeast. The regional slope of the land surface in the Southern High Plains is approximately 100 feet per mile in the generally southeast direction.

In December 2002, a reported release of approximately 25 barrels (bbls) of crude oil occurred at the site due to corrosion of the Plains Deep 6" pipeline. Ten (10) bbls of crude oil was recovered during initial response activities. Approximately 6,000 square feet of surface area was impacted by the release. During the initial remediation phase, soil that was impacted by the release was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm for treatment. Soil remediation activities were initiated by Environmental Plus, Inc. (EPI) in 2003 and the soil phase of site remediation was closed in October 2005.

On February 5, 2007, Talon/LPE was retained by Plains Pipeline, L.P. (Plains) to assume groundwater remediation activities at the Lovington Deep 6" release site. Groundwater remediation activities at the site were previously conducted by EPI.

1.1 Site Geology

The surficial deposits in Lea County are composed of Blackwater Draw (Illinoian) sediments, Ogallala sediments and undivided Quaternary alluvium, which is also termed 'cover sands'. The soil in the upper two (2) feet at the site is composed of gravelly loam that contains abundant eroded gravel to cobble size caliche fragments. Below the topsoil is predominately unconsolidated sand to weakly cemented sandstone, which has undergone calichification of varying extent.

Below the Blackwater Draw Formation is the Ogallala Formation of Miocene to Pliocene age. The Ogallala Formation was deposited from sediments eroded from the Southern Rockies and consists mostly of eolian sediments, silty to very fine sand or loess. During the middle to late Miocene, Ogallala sediments were deposited by fluvial mechanism as paleovalley fill, which is composed of gravelly to sandy braided stream deposits that trend west to east across the Southern High Plains. During the late Miocene, the west to east drainage was diverted (captured) by the Pecos River. Subsequently, the Pecos River basin has experienced deflation, which facilitated eolian deposition on the Southern High Plains during the Pliocene.

1.2 Previous Environmental Investigations

During initial assessment activities to delineate the extent of impacted soil at the site, six (6) soil borings were advanced from December 27, 2002, through January 2, 2004. During the assessment, soil boring BH-1 encountered groundwater that was impacted by phase separated hydrocarbons (PSH). Subsequently, soil boring BH-1 was completed as groundwater monitor well, MW-2. Soil borings BH-2, BH-4, BH-5, and BH-6 were advanced in order to delineate the extent of impacted groundwater and those soil borings were completed as groundwater monitor wells MW-1, MW-3, MW-4, and MW-5 respectively.

During November and December 2004, six (6) groundwater monitor wells (MW-6 through MW-11) were installed to further delineate the lateral extent of groundwater impacts at the site. In July 2006, six (6) additional groundwater monitor wells (MW-12 through MW-17) were installed to complete assessment of the areal extent of impacted groundwater.

Subsequent groundwater monitoring events indicated that benzene concentrations in the down-gradient sentinel monitor wells (MW-12 and MW-18) consistently exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard. Therefore, two (2) additional monitor wells MW-19 and MW-20 were installed further down-gradient on August 27, 2018.

PSH recovery operations have been performed at the site since March 2003, initially from hand bailing followed by a recovery system that utilized skimmers with bladder pumps. In April 2010, a pneumatic total fluid pump was installed in monitor well MW-2. Due to an insignificant increase in PSH production and because the total fluid pump increased groundwater production, the total fluids pump was removed from MW-2 in September 2010 and replaced with a skimmer and bladder pump. In order to help reduce down-gradient dissolved-phase concentrations, air sparge bubblers were installed in monitor wells MW-10 and MW-12 in January 2011.

At the end of 2012, there were six (6) skimmers with bladder pumps operating in monitor wells MW-2, MW-13, MW-14, MW-15, MW-16, and MW-17. During 2012, three (3) Mobile Dual Phase Extraction (MDPE) events were conducted on site. A total of approximately 27 bbls of liquid and vapor PSH were recovered during these events, and five (5) bbls of crude oil was recovered during 2012 by the skimmer pump system.

Because the MDPE events have proven to be far more efficient at PSH recovery, the on-site recovery system was removed completely in January 2013. MDPE events are now conducted on a monthly basis. On February 20, 2016, a new compressor was installed for the air sparge bubblers in monitoring wells MW-10, MW-12, and MW-18.

For 2022, during the quarters one (1) through three (3), there were two (2) air sparge bubblers operating in MW-18 and MW-19. The air sparge bubblers were removed in the fourth quarter of 2022. In 2022, MDPE events recovered an estimated total of 52.48 bbls of PSH consisting of 13.21 bbls of liquid and 39.26 bbls of vapor phase PSH.

During 2023, a total of 12 MDPE events were conducted. A total of 41.07 bbls of PSH were recovered which consisted of 14.00 bbls of liquid PSH and 27.07 bbls of vapor. To date, approximately 570.22 bbls of PSH have been recovered during the described remediation efforts.

During 2024, a total of 12 MDPE events were conducted. A total of 25.41 bbls of PSH were recovered which consisted of 6.91 bbls of liquid PSH and 18.52 bbls of vapor. To date, approximately 543.09 bbls of PSH have been recovered during the described remediation efforts.

1.3 Regulatory Framework

Groundwater analytical data from this site was evaluated to the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards.

NMWQCC Groundwater Standards	
Compound	**Milligrams per Liter**
Benzene	0.010
Toluene	0.750
Ethylbenzene	0.750
Total Xylenes	0.620
PAH (Naphthalene)	0.030
PAH (Benzo[a]pyrene)	0.0007

The following sections provide summaries of the groundwater monitoring activities conducted at the site as well as analytical results from each groundwater sampling event of 2024. Analytical results for the four (4) sampling events are summarized in Table 2 and Table 3 in Appendix B, and Figures 3a through 3d in Appendix A. Laboratory analytical data reports and chain of custody documentation are included in Appendix C.

2. SITE ACTIVITIES

The sections that follow summarize groundwater monitoring, PSH recovery and site assessment activities conducted at the site during the year 2024. The primary function of groundwater monitoring activities is to collect depth to fluid measurements and collect groundwater samples for laboratory analysis. The objective of groundwater monitoring is to evaluate the status of the dissolved-phase and PSH plume in order to verify the effectiveness of the groundwater remediation system as to inhibiting plume migration, reducing the volume of PSH impacting the groundwater and determining if modifications to the remediation system would improve its performance and efficiency if necessary.

2.1 Groundwater Monitoring Activities

A total of four (4) groundwater monitoring events were conducted by Talon/LPE in 2024. The events occurred in: March, June, August/September, and December.

During the March 2024 groundwater monitoring event, all 20 monitor wells were gauged. A total of 13 monitor wells (MW-1, MW-3, MW-4, MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-18, MW-19, and MW-20) were purged and sampled. Due to the presence of PSH, four (4) monitor wells (MW-2, MW-13, MW-14, and MW-17) were not sampled. It was noted that two (2) monitor wells (MW-6 and MW-10) were dry when gauged therefore were not purged or sampled and monitor well MW-7 did not have enough water to sample. Details of the gauging, purging, and sampling activities are presented in Section 2.2.

During the June 2024 groundwater monitoring event, all 20 monitor wells were gauged. A total of 13 monitor wells (MW-1, MW-3, MW-4, MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-18, MW-19, and MW-20) were purged and sampled. Due to the presence of PSH, four (4) monitor wells (MW-2, MW-13, MW-14, and MW-17) were not sampled. It was noted that two (2) monitor wells (MW-6 and MW-10) were dry when gauged and monitor well MW-7 did not have enough water to sample; therefore, the aforementioned wells were not purged or sampled. Details of the gauging, purging, and sampling activities are presented in Section 2.2.

During the August/September 2024 groundwater monitoring event, all 20 monitor wells were gauged. A total of 13 monitor wells (MW-1, MW-3, MW-4, MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-18, MW-19, and MW-20) were purged and sampled. Due to the presence of PSH, three (3) monitor wells (MW-13, MW-14, and MW-17) were not sampled. It was noted that two (2) monitor wells (MW-6 and MW-10) were dry when gauged and monitor well MW-7 did not have enough water to sample; therefore, the aforementioned wells were not purged or sampled. Details of the gauging, purging, and sampling activities are presented in Section 2.2.

During the December 2024 groundwater monitoring event, all 20 monitor wells were gauged. A total of 13 monitor wells (MW-1, MW-3, MW-4, MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-18, MW-19, and MW-20) were purged and sampled. Due to the presence of PSH, three (3) monitor wells (MW-13, MW-14, and MW-17) were not sampled. It was noted that three (3) monitor wells (MW-2, MW-6, and MW-10) were dry when gauged and monitor well MW-7 did not have enough water to sample; therefore, the aforementioned wells were not purged or sampled. Details of the gauging, purging, and sampling activities are presented in Section 2.2.

2.2 Groundwater Gauging, Purging, and Sampling Procedures

During each groundwater monitoring event, all monitor wells were measured with an oil/water interface probe to determine static water levels and to determine the thickness of PSH accumulations, if present. The data collected from these measurements was used to construct groundwater gradient maps and PSH thickness maps. The results of the measured depths to fluids collected during the four (4) events conducted in 2024 are incorporated in Table 1 - Groundwater Gauging Data – Historical included in Appendix B.

Subsequent to gauging, all monitor wells not impacted with PSH were purged a minimum of three (3) casing volumes using a 12-volt, submersible pump equipped with vinyl tubing. The purge pump and tubing were decontaminated with Alconox detergent and rinsed with distilled water after each use. Recovered purge water and water used in the decontamination process was contained in on-site 55-gallon drums. After the groundwater monitoring event, all retained water was placed into the on-site storage tank and removed with a vacuum truck for disposal at Gandy Marley, an NMOCD approved facility.

Groundwater samples were collected from all monitor wells using dedicated disposable polyethylene bailers. Each groundwater sample was contained in laboratory supplied sample containers with the appropriate preservative required for the analysis requested.

The groundwater samples were maintained on ice, in the custody of Talon/LPE personnel, until they were delivered to Permian Basin Environmental Labs in Midland, Texas for analysis. The groundwater samples collected during all four (4) events were quantified for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by Environmental Protection Agency (EPA) Method SW-846 8021B.

2.3 Phase Separated Hydrocarbon Recovery

Initial PSH recovery was conducted at the in 2003 by hand bailing. In 2007, an automated skimmer/bladder pump recovery system was installed at the site. The system utilized six (6) skimmers with bladder pumps in monitor wells MW-2 and MW-13 through MW-17

for recovery of PSH and to inhibit migration of the PSH plume. The skimmer assembly consisted of bladder pumps combined with 24-inch traveling float specific gravity skimmers attachments. The skimmer system was powered by a single-phase, 230-volt, 7.5 HP, two-stage reciprocating air compressor.

Currently, MDPE events are conducted monthly. This system utilizes vapor pulled by vacuum combined with propane to power an internal combustion engine. In addition, it also powers a compressor and the blower used to create a vacuum for vapor recovery. Compressed air from the system drives pneumatic pumps placed in the various wells containing PSH. Fluid recovered by the pumps is retained in an on-site 1,500-gallon poly tank. The poly tank is equipped with a high level shut off switch to prevent overflow and is located within a secondary containment compound that is outfitted with a poly-liner. Recovered groundwater and PSH is removed from the poly tank and transported to an NMOCD approved disposal facility, Gandy Marley, via vacuum truck at the end of each MDPE event.

During 2024 the quarterly PSH and groundwater recovery totals are as follows:

1st Quarter – 5.88 bbls PSH and 81.89 bbls of groundwater
2nd Quarter – 6.09 bbls PSH and 84.63 bbls of groundwater
3rd Quarter – 5.92 bbls PSH and 74.81 bbls of groundwater
4th Quarter – 7.51 bbls PSH and 91.67 bbls of groundwater

Twelve (12) MDPE events, in which liquid and vapor PSH were recovered, were conducted on site during 2024. The individual MDPE event recovery totals are as follows:

January 11, 2024 – 1.21 bbls vapor, 0.91 bbls liquid
February 6, 2024 – 0.98 bbls vapor, 0.64 bbls liquid
March 21, 2024 – 1.57 bbls vapor, 0.57 bbls liquid
April 18, 2024 – 1.43 bbls vapor, 0.55 bbls liquid
May 16, 2024 – 1.42 bbls vapor, 0.38 bbls liquid
June 4, 2024 – 1.95 bbls vapor, 0.38 bbls liquid
July 18, 2024 - 1.75 bbls vapor, 0.31 bbls liquid
August 12, 2024 - 1.66 bbls vapor, 0.41 bbls liquid
September 3, 2024 - 1.18 bbls vapor, 0.62 bbls liquid
October 2, 2024 - 1.23 bbls vapor, 0.69 bbls liquid
November 19, 2024 - 0.63 bbls vapor, 0.50 bbls liquid
December 3, 2024 - 3.51 bbls vapor, 0.95 bbls liquid

In 2024, an estimated total of 25.41 bbls of PSH was recovered during the MDPE events.

Historically, approximately 543.09 bbls of PSH, which consists of 311.55 bbls of vapor phase and 231.54 bbls of liquid phase PSH, have been recovered from the site.

3. GROUNDWATER MONITORING RESULTS

The results of the laboratory analyses are summarized in Table 2 – Groundwater Analytical Data – Historical in Appendix B. Laboratory analytical data reports and chain of custody documentation are provided in Appendix C.

The following sections present the results from the monitoring of the first water-bearing zone underlying the site.

3.1 Physical Characteristics of the First Water-Bearing Zone

The primary groundwater resource under the Southern High Plains, which includes the site, is referred to as the Ogallala Aquifer or High Plains Aquifer. The Southern portion of the Ogallala Aquifer underlies an area of about 29,000 square miles in western Texas and eastern New Mexico, which encompasses all or part of 31 counties in Texas and six (6) counties in New Mexico.

The Ogallala Aquifer has experienced acute depletion from extensive irrigation and urban demand, which have exceeded the average annual recharge rate. Recharge of the Ogallala Aquifer on the Southern High Plains occurs predominately from rainfall runoff that accumulates in ephemeral streams and playa lakes, as well as direct recharge in areas that contain permeable soils such as sand hills. Recharge rates vary depending on mechanism, but averages from 0 to 1.6 inches per year.

The Ogallala Aquifer is generally unconfined and the potentiometric surface mimics the topography with a regional flow direction from the general northwest to the general southeast. The mean regional gradient is 15 feet per mile and the typical groundwater velocity averages seven (7) inches per day. The regional hydraulic conductivity averages 17 gallons per day per square-foot and specific yield averages 16%. The depth to groundwater at the site has historically ranged from 60 to 65 feet below ground surface (bgs) and the groundwater flow direction is generally to the east. The saturated thickness of the Ogallala formation on the High Plains ranges from 25 feet to 175 feet. The variable thickness is due to the irregularly eroded Triassic surface that underlies it.

The composition of Ogallala groundwater is defined as mixed-cation-HCO_3. Therefore, Ogallala groundwater is considered hard. Problems with scale have occurred with residential and commercial water systems that use Ogallala groundwater and treatment strategies are often employed to reduce the effects of scale. The typical total dissolved solids of Ogallala groundwater in the Hobbs-Lovington area is generally less than 1,000 mg/L (parts per million (ppm)) in areas not impacted by oil-field brines. The pH of Ogallala water averages 7.3.

3.2 Groundwater Gradient and Flow Direction

The depth to fluid measurements was collected during each of the four (4) groundwater monitoring events during the year 2024. The results of the fluid level measurements are summarized in Table 1 - Groundwater Gauging Data – Historical in Appendix B.

Potentiometric surface maps were constructed from the four (4) quarterly water level measurement data sets:

- March 04, 2024
- June 03, 2024
- August 30, 2024
- December 02, 2024

These maps are Figures 2a, 2b, 2c, and 2d presented in Appendix A.

Based on fluid level measurements at the site, the groundwater flow direction within the first water-bearing zone underlying the site between March 2024 and December 2024 was east with an average gradient of 0.0031 feet per foot (ft/ft), or approximately 16.37 feet per mile. Groundwater levels at the subject site have exhibited a decrease of an average of 0.05 feet for the year 2024.

3.3 Phase Separated Hydrocarbons

Groundwater measurements were obtained using an oil/water interface probe, which was also used to determine the presence of PSH.

During the March 2024 sampling event, PSH was observed in four (4) monitor wells (MW-2, MW-13, MW-14, and MW-17). PSH thickness in these wells ranged from 0.01 feet to 1.46 feet.

During the June 2024 sampling event, PSH was observed in four (4) monitor wells (MW-2, MW-13, MW-14, and MW-17). PSH thickness in these wells ranged from 0.03 feet to 3.57 feet.

During the August/September 2024 sampling event, PSH was observed in three (3) monitor wells (MW-13, MW-14, and MW-17). PSH thickness in these wells ranged from 0.03 feet to 0.80 feet.

During the December 2024 sampling event, PSH was observed in three (3) monitor wells (MW-13, MW-14, and MW-17). PSH thickness in these wells ranged from 0.05 feet to 0.50 feet.

PSH plume maps are presented as Figures 3a, 3b, 3c, and 3d in Appendix A.

3.4 Groundwater Sampling Results

During the March 2024 sampling event, 13 monitor wells (MW-1, MW-3, MW-4, MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-18, MW-19, and MW-20) were sampled. Groundwater samples collected from these wells exhibited the following analytical results:

- Benzene concentrations were below the applicable laboratory MDLs in all wells sampled. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in any monitor wells sampled this quarter.
- Toluene concentrations were below the applicable laboratory MDLs in all wells sampled. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Ethylbenzene concentrations were below the applicable laboratory MDLs in all wells sampled with the exception of MW-3, which exhibited an ethylbenzene concentration of 0.00345 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Xylene concentrations were below the applicable laboratory MDLs in all wells sampled. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.

During the June 2024 sampling event, 13 monitor wells (MW-1, MW-3, MW-4, MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-18, MW-19, and MW-20) were sampled. Groundwater samples collected from these wells exhibited the following analytical results:

- Benzene concentrations were below the applicable laboratory MDLs in all wells sampled. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in any monitor wells sampled this quarter.
- Toluene concentrations were below the applicable laboratory MDLs in all wells sampled. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Ethylbenzene concentrations were below the applicable laboratory MDLs in all wells sampled with the exception of MW-3, which exhibited an ethylbenzene concentration of 0.00860 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.

- Xylene concentrations were below the applicable laboratory MDLs in all wells sampled. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.

During the August/September 2024 sampling event, 13 monitor wells (MW-1, MW-3, MW-4, MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-18, MW-19, and MW-20) were sampled. Groundwater samples collected from these wells exhibited the following analytical results:

- Benzene concentrations were below the applicable laboratory MDLs in all wells sampled with the exception of MW-18, MW-19, and MW-20, which exhibited benzene concentrations of 0.00186 mg/L, 0.00349 mg/L, and 0.00839 mg/L, respectively. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in any monitor wells sampled this quarter.
- Toluene concentrations were below the applicable laboratory MDLs in all wells sampled with the exception MW-19 and MW-20, which exhibited concentrations of 0.00112 mg/L and 0.00321 mg/L, respectively. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Ethylbenzene concentrations ranged from 0.00107 mg/L in MW-1 to 0.148 mg/L in MW-20. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Xylene concentrations ranged from below the applicable laboratory MDLs in MW-1, MW-5, MW-8, MW-9, MW-12, MW-15, and MW-16 to 0.168 mg/L in MW-20. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.

During the December 2024 sampling event, 13 monitor wells (MW-1, MW-3, MW-4, MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-18, MW-19, and MW-20) were sampled. Groundwater samples collected from these wells exhibited the following analytical results:

- Benzene concentrations were below the applicable laboratory MDLs in all wells sampled. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in any monitor wells sampled this quarter.
- Toluene concentrations were below the applicable laboratory MDLs in all wells sampled. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Ethylbenzene concentrations were below the applicable laboratory MDLs in all wells sampled. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.

- Xylene concentrations were below the applicable laboratory MDLs in all wells sampled. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.

The results of the laboratory analyses are summarized in Table 2 – Groundwater Analytical Data – Historical in Appendix B. Laboratory analytical data reports and chain of custody documentation are provided in Appendix C.

4. CONCLUSIONS AND RECOMMENDATIONS

The following section presents a summary of the groundwater monitoring events conducted at the site and provides recommendations for future actions.

4.1 Summary of Findings

- The groundwater flow direction is generally to the east with an average gradient of 0.0031 feet per foot based on the water level measurement data collected in 2024.
- Groundwater levels at the subject site have decreased 0.05 for the year 2024.
- PSH has impacted monitor wells MW-2, MW-13, MW-14, and MW-17 in 2024. The PSH plume is well defined.
- Approximately 25.41 bbls of PSH was removed from the site during the year 2024

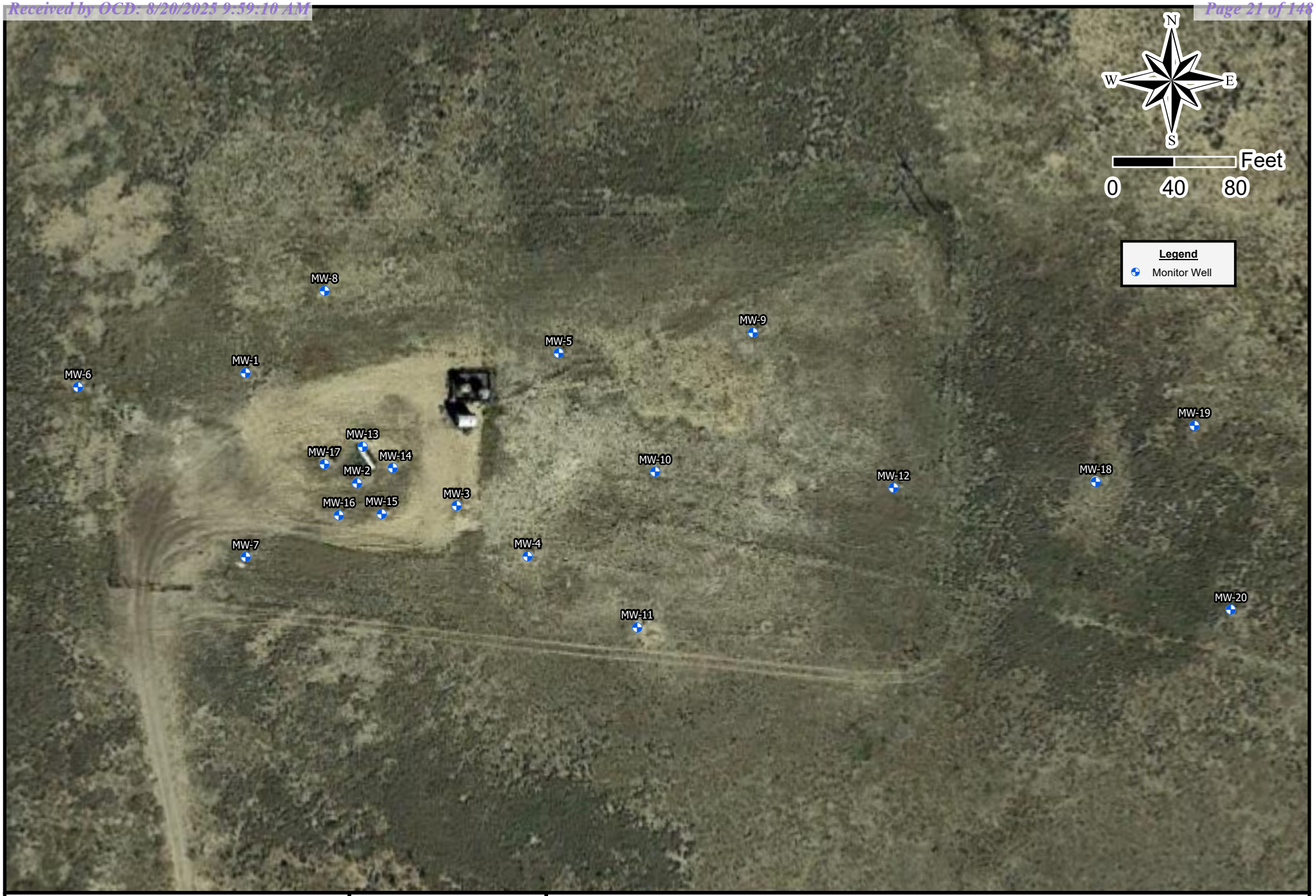
4.2 Recommendations

Based upon the results of the quarterly groundwater monitoring and PSH recovery efforts, Talon/LPE proposes the following actions:

- Continue PSH recovery via monthly MDPE events.
- Perform quarterly groundwater monitoring events in accordance with NMOCD directives.

APPENDIX A

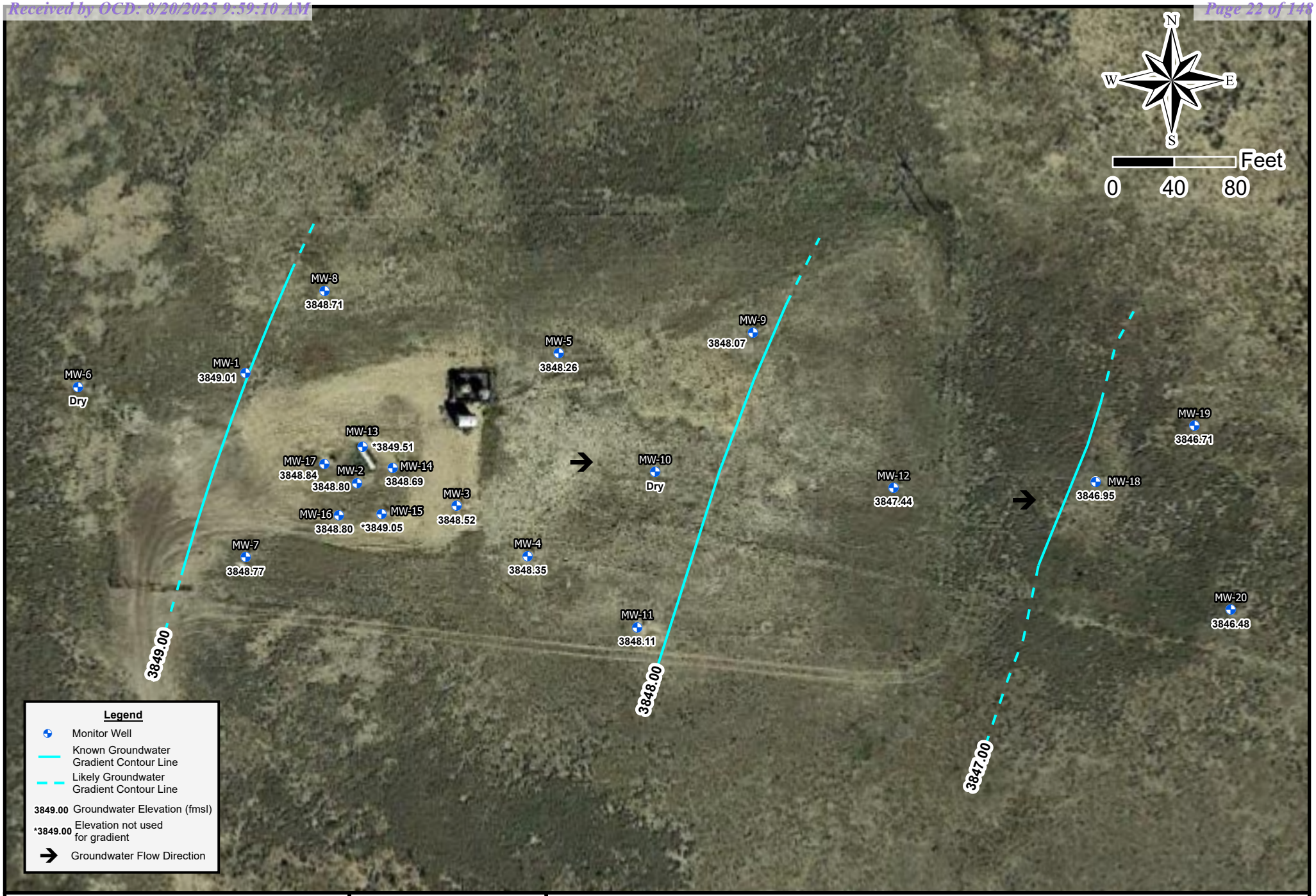
Figures



TALON LPE

Drafted: 2/14/2023
1 in = 80 ft
Drafted By: JAI

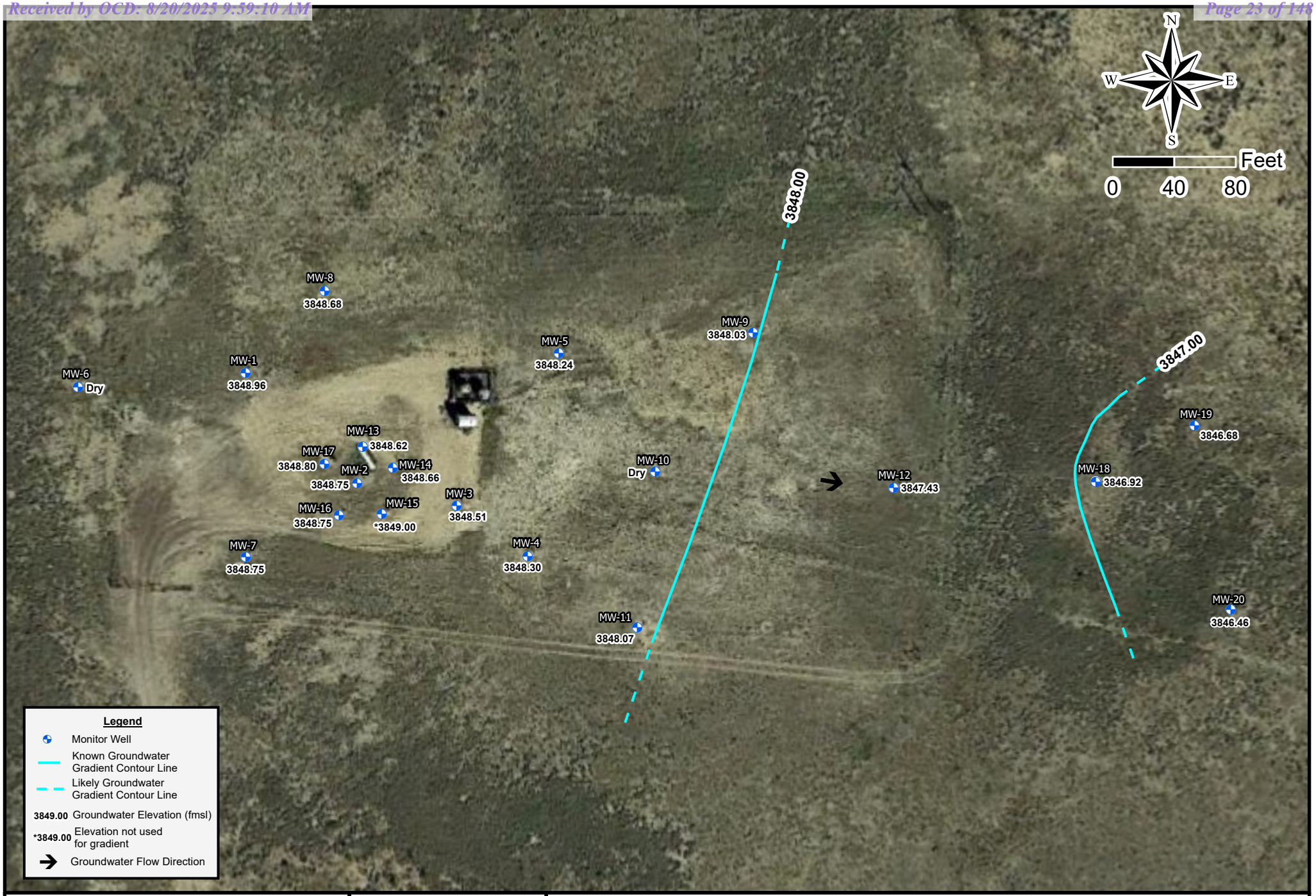
Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 1 - Site Plan



TALON LPE

Drafted: 5/16/2024
1 in = 80 ft
Drafted By: IJR

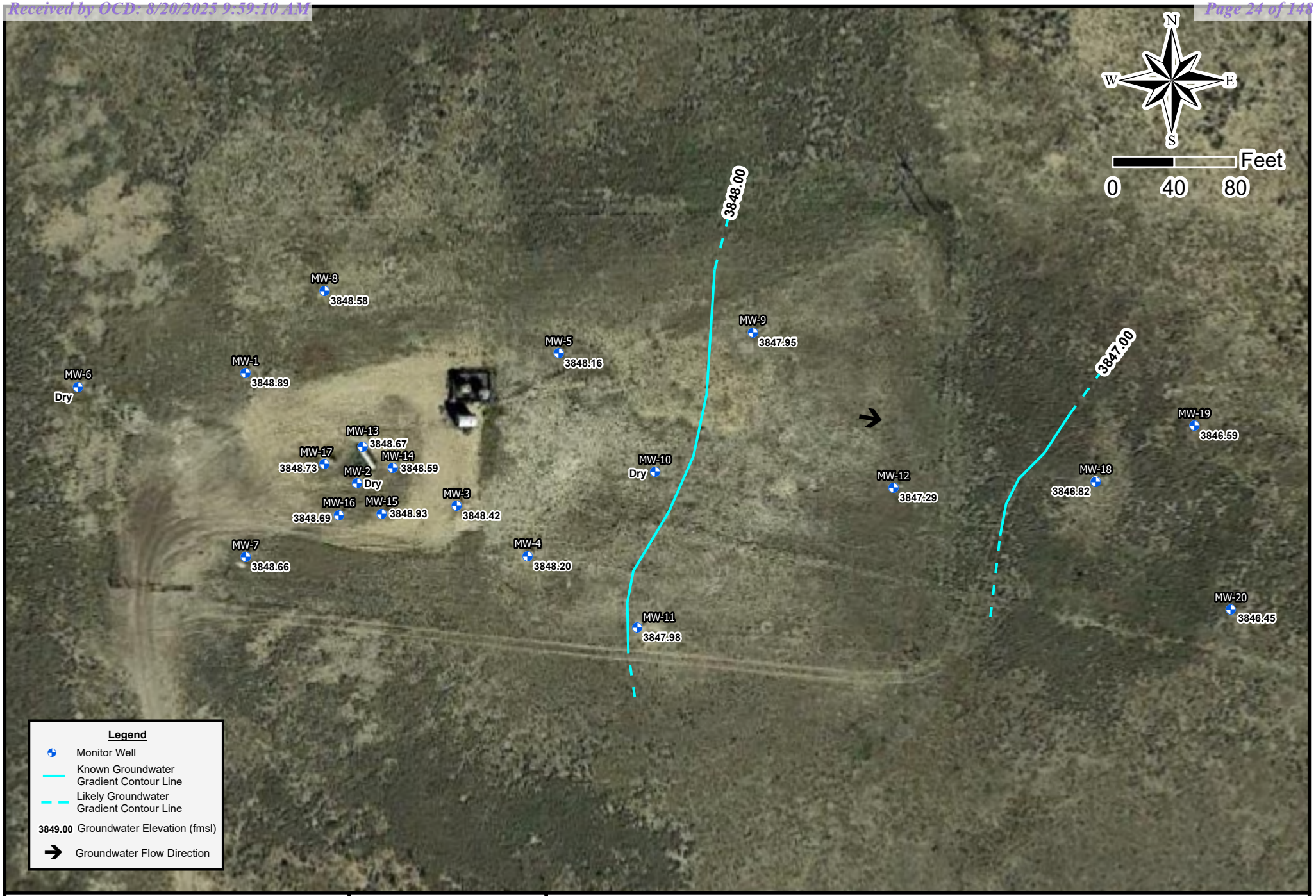
Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 2a - Groundwater Gradient Map (03/04/2024)



TALON LPE

Drafted: 3/17/2025
1 in = 80 ft
Drafted By: IJR

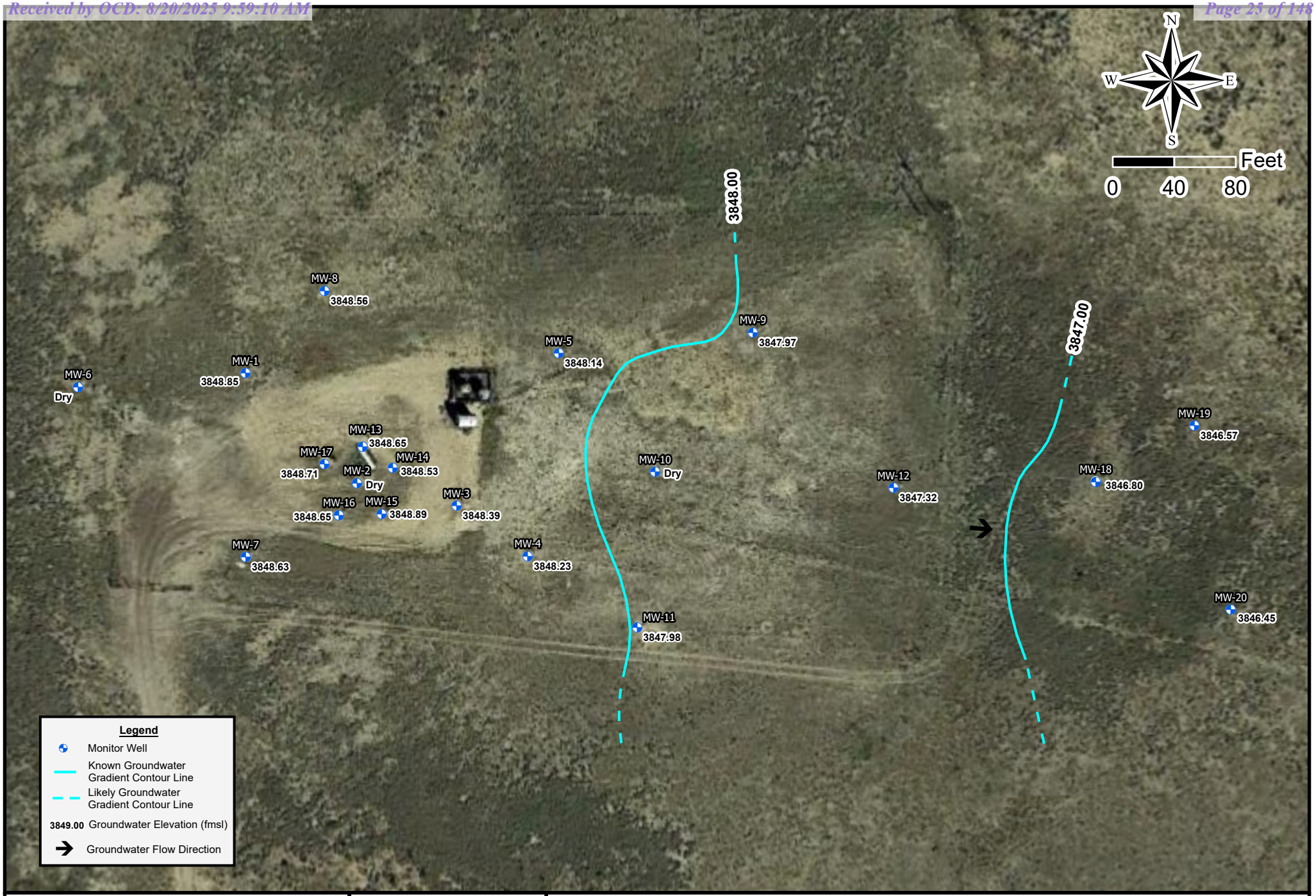
Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 2b - Groundwater Gradient Map (06/03/2024)



TALON LPE

Drafted: 3/17/2025
1 in = 80 ft
Drafted By: IJR

Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 2c - Groundwater Gradient Map (08/30/2024)

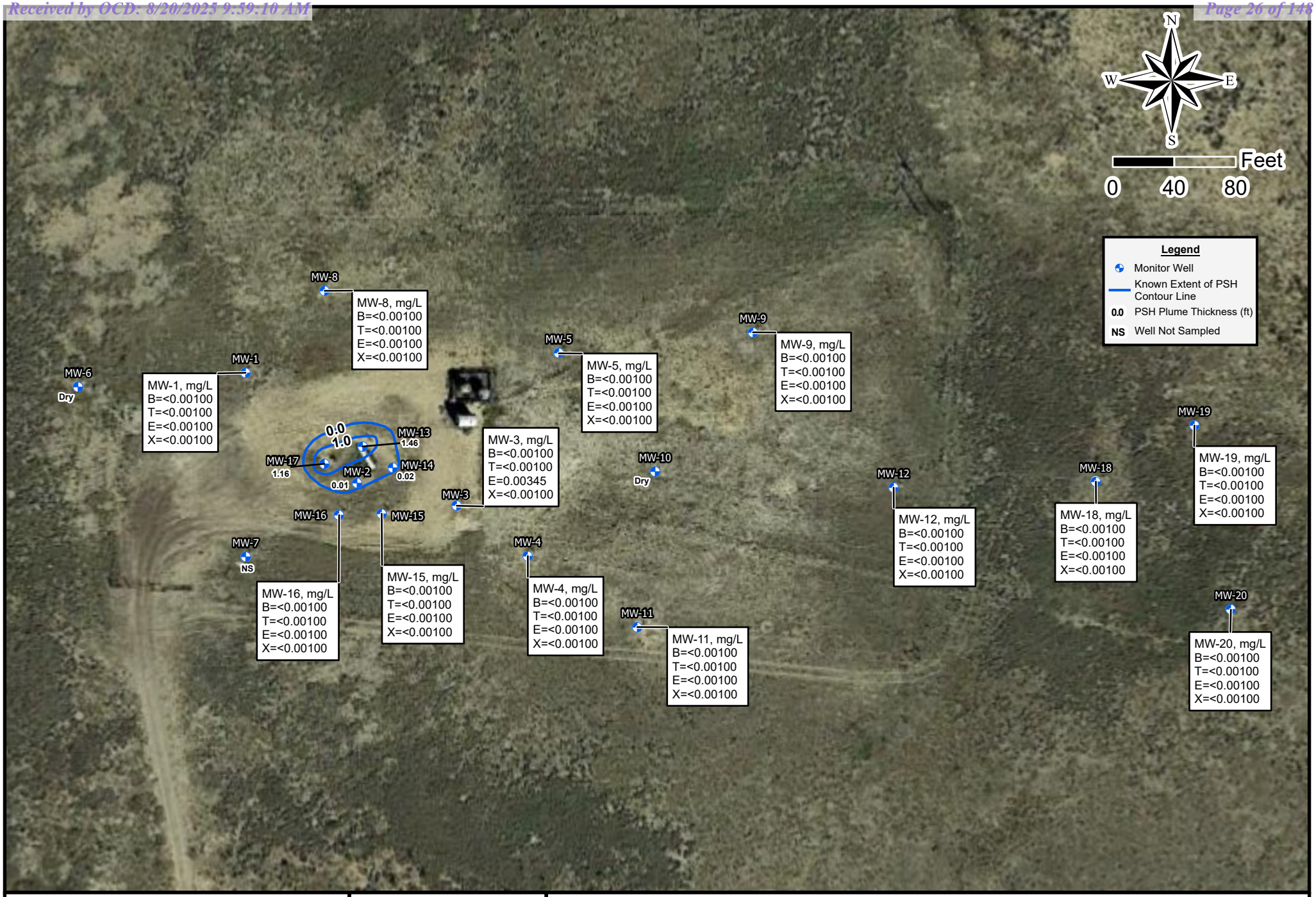


TALON LPE

Drafted: 12/31/2024
1 in = 80 ft
Drafted By: IJR

Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542

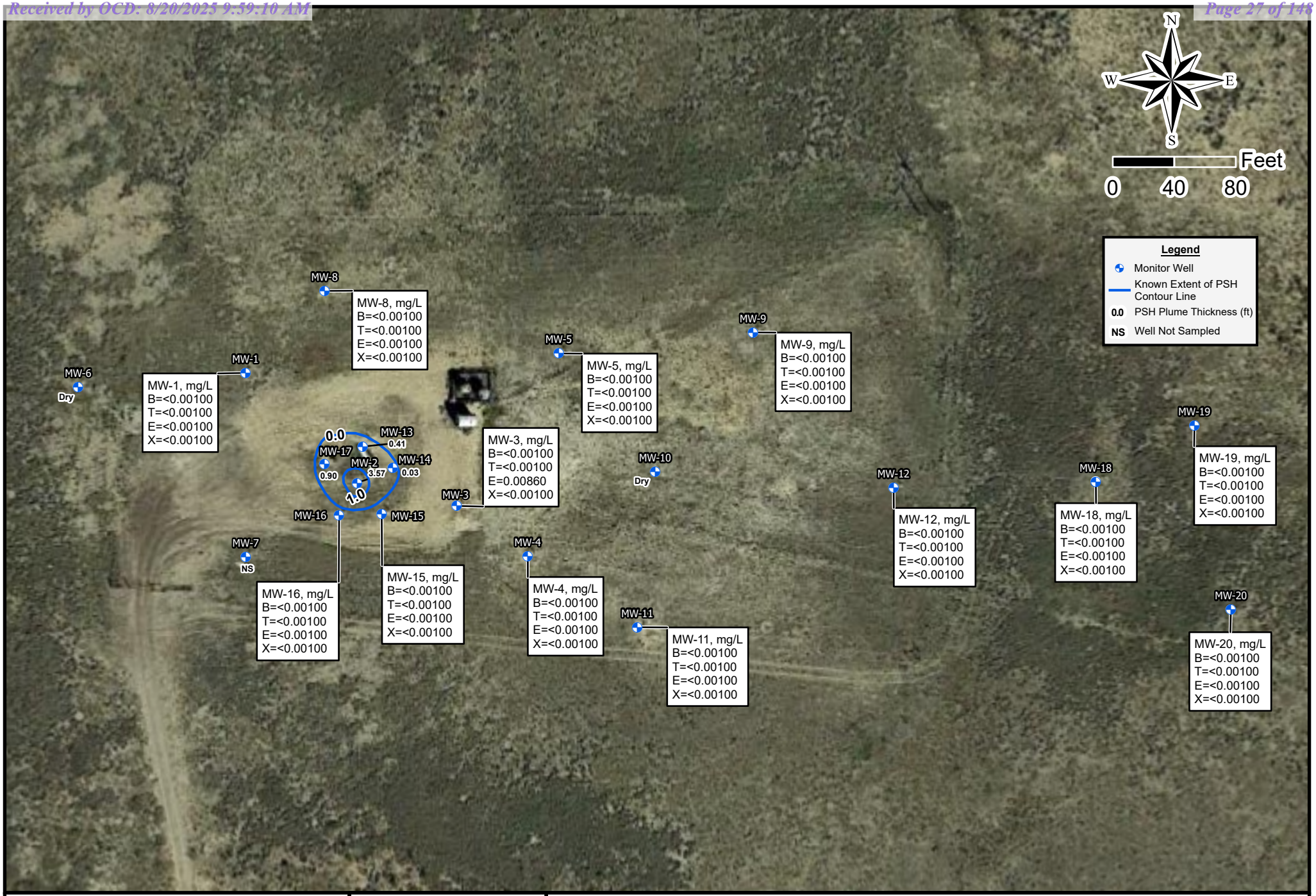
Figure 2d - Groundwater Gradient Map (12/02/2024)



TALON LPE

Drafted: 4/9/2024
1 in = 80 ft
Drafted By: IJR

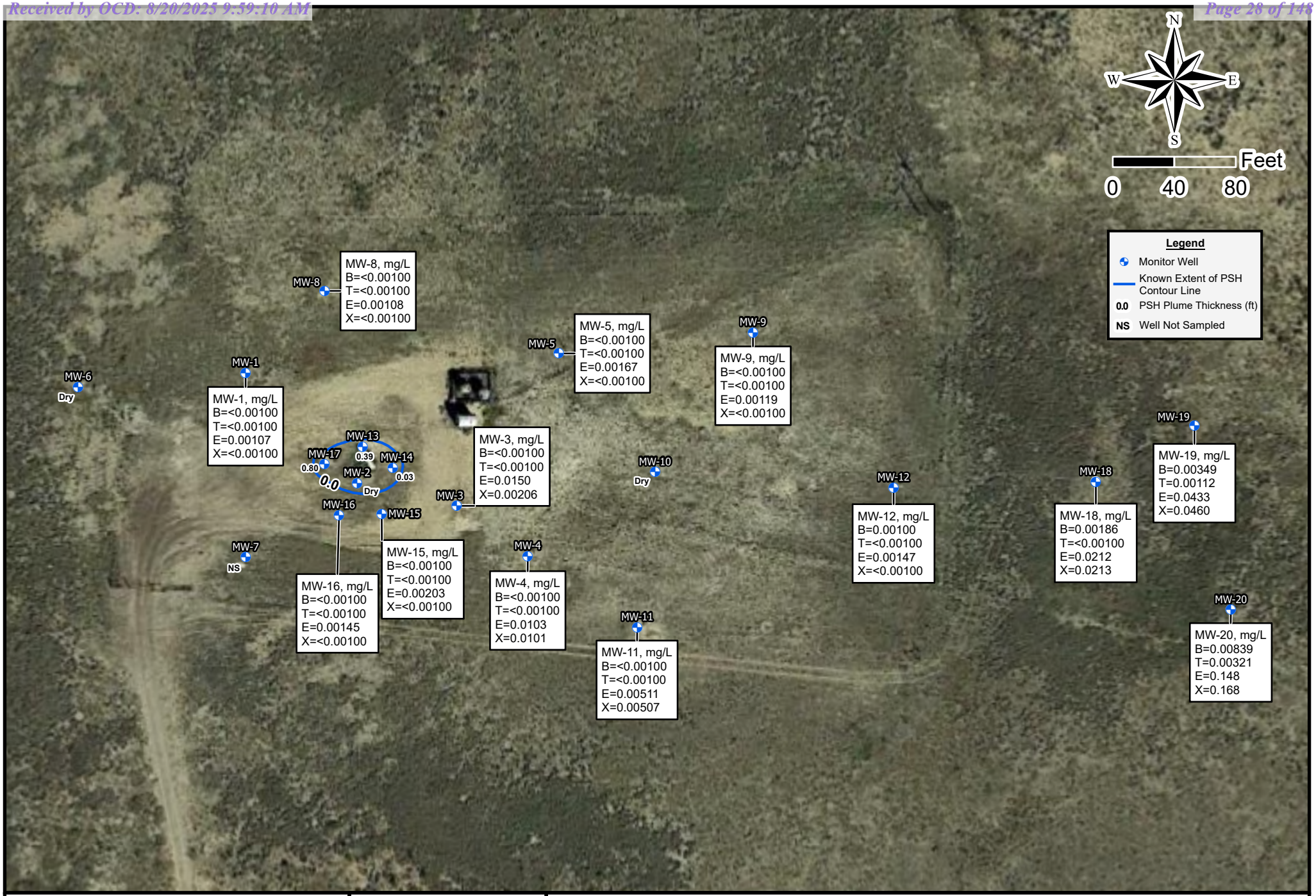
Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 3a - PSH Thickness and Groundwater Concentration Map (03/04/2024)



TALON LPE

Drafted: 7/8/2024
1 in = 80 ft
Drafted By: IJR

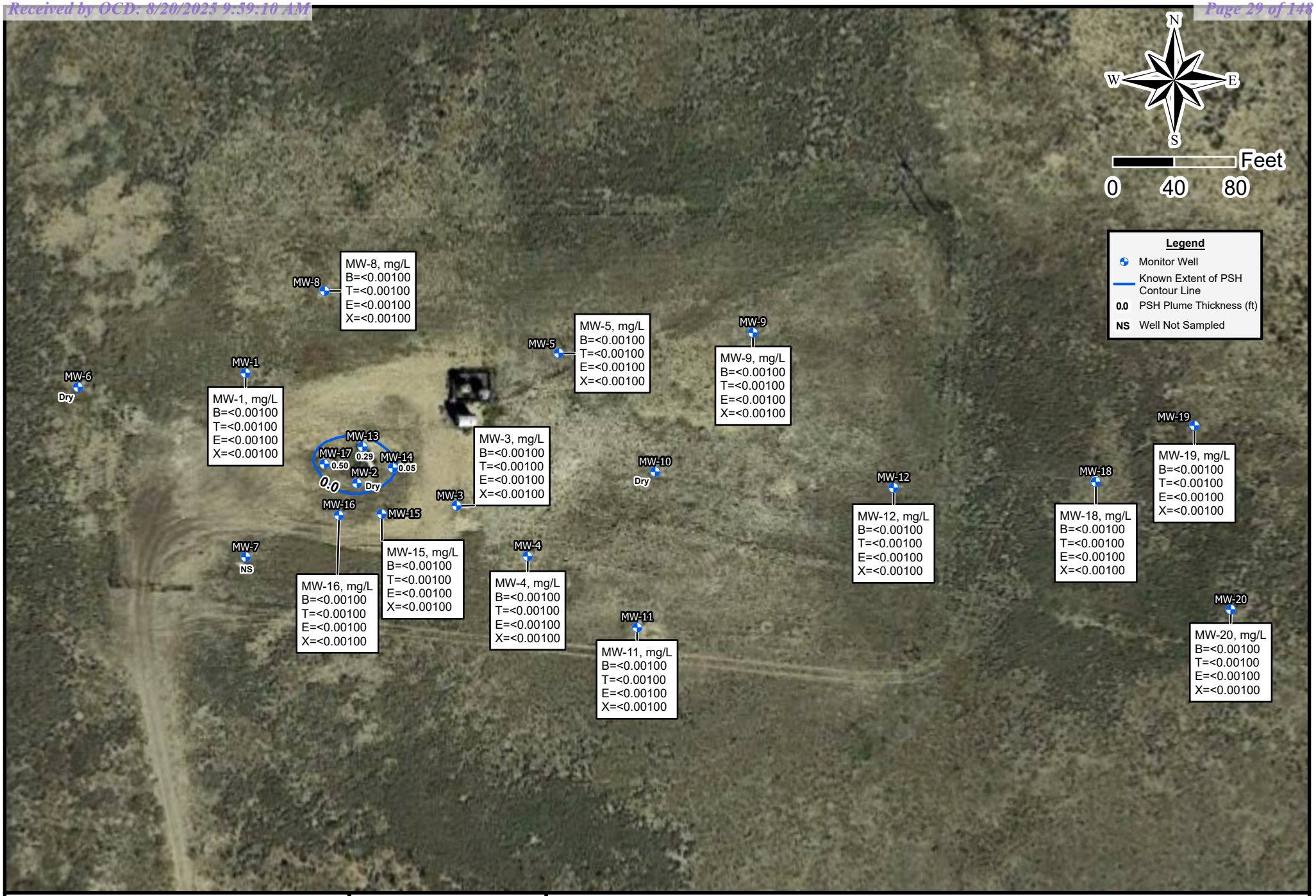
Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 3b - PSH Thickness and Groundwater Concentration Map (06/03-04/2024)



TALON LPE

Drafted: 3/17/2025
1 in = 80 ft
Drafted By: IJR

Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 3c - PSH Thickness and Groundwater Concentration Map (08/30/2024 & 09/05/2024)



TALON LPE

Drafted: 3/17/2025
1 in = 80 ft
Drafted By: IJR

Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 3d - PSH Thickness and Groundwater Concentration Map (12/02-03,06/2024)

APPENDIX B

Tables

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Date Sampled (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-1 4"	3915.51	54	74	03/08/2016	64.98	-	-	3850.53
				05/24/2016	65.02	-	-	3850.49
				09/08/2016	65.06	-	-	3850.45
				12/05/2016	64.76	-	-	3850.75
				03/08/2017	64.80	-	-	3850.71
				06/13/2017	65.21	-	-	3850.30
				09/12/2017	65.22	-	-	3850.29
				12/13/2017	65.28	-	-	3850.23
				03/23/2018	65.33	-	-	3850.18
				06/12/2018	65.38	-	-	3850.13
				09/10/2018	65.34	-	-	3850.17
				12/11/2018	65.49	-	-	3850.02
				03/13/2019	65.54	-	-	3849.97
				06/10/2019	64.59	-	-	3850.92
				09/25/2019	65.83	-	-	3849.68
				12/06/2019	65.65	-	-	3849.86
				03/11/2020	65.73	-	-	3849.78
				05/06/2020	65.70	-	-	3849.81
				06/09/2020	65.77	-	-	3849.74
				09/04/2020	65.83	-	-	3849.68
				12/11/2020	65.84	-	-	3849.67
				03/16/2021	65.85	-	-	3849.66
				06/11/2021	65.94	-	-	3849.57
				09/01/2021	65.98	-	-	3849.53
				11/29/2021	66.04	-	-	3849.47
				03/02/2022	66.09	-	-	3849.42
				06/02/2022	66.14	-	-	3849.37
				09/13/2022	66.22	-	-	3849.29
				12/01/2022	66.24	-	-	3849.27
				03/01/2023	66.30	-	-	3849.21
				06/05/2023	66.36	-	-	3849.15
				09/05/2023	66.41	-	-	3849.10
				12/05/2023	66.48	-	-	3849.03
				03/04/2024	66.50	-	-	3849.01
				06/03/2024	66.55	-	-	3848.96
				08/30/2024	66.62	-	-	3848.89
				12/02/2024	66.66	-	-	3848.85
MW-2 4"	3915.04	54	74	03/08/2016	68.80	63.91	4.89	3850.32
				05/24/2016	68.57	64.00	4.57	3850.29
				09/08/2016	68.32	64.08	4.24	3850.26
				12/01/2016	68.67	64.10	4.57	3850.19
				03/08/2017	68.33	64.20	4.13	3850.16
				06/13/2017	68.42	64.20	4.22	3850.14
				09/12/2017	68.30	64.30	4.00	3850.08
				12/13/2017	68.00	64.40	3.60	3850.05
				03/23/2018	65.22	65.05	0.17	3849.96
				06/12/2018	67.10	64.50	2.60	3850.11
				09/10/2018	66.52	64.50	2.02	3850.21
				12/11/2018	68.28	64.60	3.68	3849.83
				03/13/2019	66.82	65.12	1.70	3849.64
				06/10/2019	DR	-	-	-
				12/06/2019	DR	-	-	-
				03/11/2020	65.79	65.40	0.39	3849.58
				05/06/2020	66.92	65.20	1.72	3849.56
				06/09/2020	DR	-	-	-
				09/04/2020	67.75	65.10	2.65	3849.50
				12/11/2020	65.73	65.65	0.08	3849.38
				03/16/2021	DR	-	-	
				06/11/2021	68.90	65.09	3.81	3849.32
				09/01/2021	68.94	65.10	3.84	3849.31
				11/29/2021	67.20	65.55	1.65	3849.22
				03/02/2022	69.25	65.27	3.98	3849.11
				06/02/2022	68.90	65.25	3.65	3849.19
				09/13/2022	69.55	65.47	4.08	3848.90
				12/01/2022	69.04	65.39	3.65	3849.05
				03/01/2023	67.39	65.81	1.58	3848.97
				06/05/2023	66.20	66.10	0.10	3848.92
				09/05/2023	70.55	65.46	5.09	3848.74
				12/05/2023	69.55	66.58	2.97	3847.97
				03/04/2024	66.25	66.24	0.01	3848.80
				06/03/2024	69.27	65.70	3.57	3848.75
				08/30/2024	DR	-	-	-
				12/02/2024	DR	-	-	-

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Date Sampled (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-3 4"	3915.24	54	74	03/08/2016	65.16	-	-	3850.08
				05/24/2016	65.21	-	-	3850.03
				09/08/2016	65.25	-	-	3849.99
				12/05/2016	65.27	-	-	3849.97
				03/08/2017	65.33	-	-	3849.91
				06/13/2017	65.39	-	-	3849.85
				09/12/2017	65.44	-	-	3849.80
				12/13/2017	65.70	-	-	3849.54
				03/23/2018	65.50	-	-	3849.74
				06/12/2018	65.59	-	-	3849.65
				09/10/2018	65.52	-	-	3849.72
				12/11/2018	65.66	-	-	3849.58
				03/13/2019	65.69	-	-	3849.55
				06/10/2019	65.75	-	-	3849.49
				09/25/2019	65.80	-	-	3849.44
				12/06/2019	65.85	-	-	3849.39
				03/11/2020	65.89	-	-	3849.35
				06/09/2020	65.97	-	-	3849.27
				09/04/2020	65.97	-	-	3849.27
				12/11/2020	66.04	-	-	3849.20
				03/16/2021	66.05	-	-	3849.19
				06/11/2021	65.93	-	-	3849.31
				09/01/2021	66.17	-	-	3849.07
				11/29/2021	66.21	-	-	3849.03
				03/02/2022	66.30	-	-	3848.94
				06/02/2022	66.33	-	-	3848.91
				09/13/2022	66.42	-	-	3848.82
				12/01/2022	66.43	-	-	3848.81
				03/01/2023	66.50	-	-	3848.74
				06/05/2023	66.55	-	-	3848.69
				09/05/2023	66.59	-	-	3848.65
				12/05/2023	66.71	-	-	3848.53
				03/04/2024	66.72	-	-	3848.52
				06/03/2024	66.73	-	-	3848.51
				08/30/2024	66.82	-	-	3848.42
				12/02/2024	66.85	-	-	3848.39
MW-4 2"	3915.30	54	74	03/08/2016	65.41	-	-	3849.89
				05/24/2016	65.44	-	-	3849.86
				09/08/2016	65.47	-	-	3849.83
				12/05/2016	65.50	-	-	3849.80
				03/08/2017	65.55	-	-	3849.75
				06/13/2017	65.61	-	-	3849.69
				09/12/2017	65.64	-	-	3849.66
				12/13/2017	65.70	-	-	3849.60
				03/23/2018	65.73	-	-	3849.57
				06/12/2018	65.81	-	-	3849.49
				09/10/2018	65.74	-	-	3849.56
				12/11/2018	65.90	-	-	3849.40
				03/13/2019	65.96	-	-	3849.34
				06/10/2019	66.00	-	-	3849.30
				09/25/2019	66.04	-	-	3849.26
				12/06/2019	66.13	-	-	3849.17
				03/11/2020	66.17	-	-	3849.13
				05/06/2020	66.12	-	-	3849.18
				06/09/2020	66.18	-	-	3849.12
				09/04/2020	66.23	-	-	3849.07
				12/11/2020	66.27	-	-	3849.03
				03/16/2021	66.30	-	-	3849.00
				06/11/2021	66.78	-	-	3848.52
				09/01/2021	66.40	-	-	3848.90
				11/29/2021	66.45	-	-	3848.85
				03/02/2022	66.53	-	-	3848.77
				06/02/2022	66.55	-	-	3848.75
				09/13/2022	66.67	-	-	3848.63
				12/01/2022	66.66	-	-	3848.64
				03/01/2023	66.72	-	-	3848.58
				06/05/2023	66.80	-	-	3848.50
				09/05/2023	66.83	-	-	3848.47
				12/05/2023	66.93	-	-	3848.37
				03/04/2024	66.95	-	-	3848.35
				06/03/2024	67.00	-	-	3848.30
				08/30/2024	67.10	-	-	3848.20
				12/02/2024	67.07	-	-	3848.23

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Date Sampled (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-5 4"	3915.26	54	74	03/08/2016	65.42	-	-	3849.84
				05/24/2016	65.47	-	-	3849.79
				09/08/2016	65.51	-	-	3849.75
				12/05/2016	65.52	-	-	3849.74
				03/08/2017	65.59	-	-	3849.67
				06/13/2017	65.65	-	-	3849.61
				09/12/2017	65.70	-	-	3849.56
				12/13/2017	65.75	-	-	3849.51
				03/23/2018	65.78	-	-	3849.48
				06/12/2018	65.90	-	-	3849.36
				09/10/2018	65.78	-	-	3849.48
				12/11/2018	65.93	-	-	3849.33
				03/13/2019	65.95	-	-	3849.31
				06/10/2019	66.02	-	-	3849.24
				09/25/2019	66.06	-	-	3849.20
				12/06/2019	66.15	-	-	3849.11
				03/11/2020	66.15	-	-	3849.11
				05/06/2020	65.90	-	-	3849.36
				06/09/2020	66.22	-	-	3849.04
				09/04/2020	66.25	-	-	3849.01
				12/11/2020	66.31	-	-	3848.95
				03/16/2021	66.33	-	-	3848.93
				06/11/2021	66.40	-	-	3848.86
				09/01/2021	66.44	-	-	3848.82
				11/29/2021	66.50	-	-	3848.76
				03/02/2022	66.55	-	-	3848.71
				06/02/2022	66.6	-	-	3848.66
				09/13/2022	66.66	-	-	3848.60
				12/01/2022	66.70	-	-	3848.56
				03/01/2023	66.77	-	-	3848.49
				06/05/2023	66.80	-	-	3848.46
				09/05/2023	66.86	-	-	3848.40
				12/05/2023	66.96	-	-	3848.30
				03/01/2023	66.77	-	-	3848.49
				06/05/2023	66.80	-	-	3848.46
				09/05/2023	66.86	-	-	3848.40
				12/05/2023	66.96	-	-	3848.30
				03/04/2024	67.00	-	-	3848.26
				06/03/2024	67.02	-	-	3848.24
				08/30/2024	67.10	-	-	3848.16
				12/02/2024	67.12	-	-	3848.14
MW-6 2"	3915.45	52	72	03/08/2016	64.71	-	-	3850.74
				05/24/2016	64.74	-	-	3850.71
				09/08/2016	64.80	-	-	3850.65
				12/05/2016	64.85	-	-	3850.60
				03/08/2017	64.90	-	-	3850.55
				06/13/2017	64.91	-	-	3850.54
				09/12/2017	64.97	-	-	3850.48
				12/13/2017	65.02	-	-	3850.43
				03/23/2018	65.04	-	-	3850.41
				06/12/2018	65.11	-	-	3850.34
				09/10/2018	65.04	-	-	3850.41
				12/11/2018	65.22	-	-	3850.23
				03/13/2019	65.23	-	-	3850.22
				06/10/2019	68.27	-	-	3847.18
				09/25/2019	DR	-	-	-
				12/06/2019	DR	-	-	-
				03/11/2020	DR	-	-	-
				05/06/2020	DR	-	-	-
				06/09/2020	DR	-	-	-
				09/04/2020	DR	-	-	-
				12/11/2020	DR	-	-	-
				03/16/2021	DR	-	-	-
				06/10/2021	DR	-	-	-
				09/01/2021	DR	-	-	-
				11/29/2021	DR	-	-	-
				03/02/2022	DR	-	-	-
				06/02/2022	DR	-	-	-
				09/13/2022	DR	-	-	-
				12/01/2022	DR	-	-	-
				03/01/2023	DR	-	-	-
				06/05/2023	DR	-	-	-
				09/05/2023	DR	-	-	-
				12/05/2023	DR	-	-	-
				03/04/2024	DR	-	-	-
				06/03/2024	DR	-	-	-
				08/30/2024	DR	-	-	-
				12/02/2024	DR	-	-	-

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Date Sampled (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-7 2"	3914.73	51	71	03/08/2016	64.39	-	-	3850.34
				05/24/2016	64.46	-	-	3850.27
				09/08/2016	64.49	-	-	3850.24
				12/05/2016	64.50	-	-	3850.23
				03/08/2017	64.29	-	-	3850.44
				06/13/2017	64.61	-	-	3850.12
				09/12/2017	64.67	-	-	3850.06
				12/13/2017	64.72	-	-	3850.01
				03/23/2018	65.75	-	-	3848.98
				06/12/2018	64.86	-	-	3849.87
				09/10/2018	64.78	-	-	3849.95
				12/11/2018	64.91	-	-	3849.82
				03/13/2019	64.91	-	-	3849.82
				06/10/2019	64.98	-	-	3849.75
				09/25/2019	65.04	-	-	3849.69
				12/06/2019	65.10	-	-	3849.63
				03/11/2020	OB	-	-	-
				05/06/2020	OB	-	-	-
				06/09/2020	OB	-	-	-
				09/04/2020	66.37	-	-	3848.36
				12/11/2020	65.31	-	-	3849.42
				03/16/2021	66.35	-	-	3848.38
				06/11/2021	66.50	-	-	3848.23
				09/01/2021	65.43	-	-	3849.30
				11/29/2021	65.45	-	-	3849.28
				03/02/2022	65.55	-	-	3849.18
				06/02/2022	65.56	-	-	3849.17
				09/13/2022	65.65	-	-	3849.08
				12/01/2022	65.66	-	-	3849.07
				03/01/2023	65.75	-	-	3848.98
				06/05/2023	65.76	-	-	3848.97
				09/05/2023	65.83	-	-	3848.90
				12/05/2023	65.92	-	-	3848.81
				03/04/2024	65.96	-	-	3848.77
				06/03/2024	65.98	-	-	3848.75
				08/30/2024	66.07	-	-	3848.66
				12/02/2024	66.10	-	-	3848.63
MW-8 2"	3915.19	53	73	03/08/2016	64.95	-	-	3850.24
				05/24/2016	65.00	-	-	3850.19
				09/08/2016	65.04	-	-	3850.15
				12/05/2016	65.07	-	-	3850.12
				03/08/2017	65.10	-	-	3850.09
				06/13/2017	65.17	-	-	3850.02
				09/12/2017	65.21	-	-	3849.98
				12/13/2017	65.26	-	-	3849.93
				03/23/2018	65.28	-	-	3849.91
				06/12/2018	65.36	-	-	3849.83
				09/10/2018	65.31	-	-	3849.88
				12/11/2018	65.45	-	-	3849.74
				03/13/2019	65.49	-	-	3849.70
				06/10/2019	65.52	-	-	3849.67
				09/25/2019	65.60	-	-	3849.59
				12/06/2019	65.83	-	-	3849.36
				03/11/2020	65.68	-	-	3849.51
				05/06/2020	65.68	-	-	3849.51
				06/09/2020	65.74	-	-	3849.45
				09/04/2020	65.74	-	-	3849.45
				12/11/2020	65.81	-	-	3849.38
				03/16/2021	65.83	-	-	3849.36
				06/11/2021	66.10	-	-	3849.09
				09/01/2021	65.94	-	-	3849.25
				11/29/2021	65.98	-	-	3849.21
				03/02/2022	66.10	-	-	3849.09
				06/02/2022	66.11	-	-	3849.08
				09/13/2022	66.18	-	-	3849.01
				12/01/2022	66.22	-	-	3848.97
				03/01/2023	66.27	-	-	3848.92
				06/05/2023	66.32	-	-	3848.87
				09/05/2023	66.38	-	-	3848.81
				12/05/2023	66.44	-	-	3848.75
				03/04/2024	66.48	-	-	3848.71
				06/03/2024	66.51	-	-	3848.68
				08/30/2024	66.61	-	-	3848.58
				12/02/2024	66.63	-	-	3848.56

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
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Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Date Sampled (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-9 2"	3913.92	55	75	03/08/2016	64.33	-	-	3849.59
				05/24/2016	64.32	-	-	3849.60
				09/08/2016	64.35	-	-	3849.57
				12/05/2016	64.36	-	-	3849.56
				03/08/2017	63.38	-	-	3850.54
				06/13/2017	65.46	-	-	3848.46
				09/12/2017	64.53	-	-	3849.39
				12/13/2017	64.59	-	-	3849.33
				03/23/2018	64.75	-	-	3849.17
				06/12/2018	64.68	-	-	3849.24
				09/10/2018	64.71	-	-	3849.21
				12/11/2018	64.76	-	-	3849.16
				03/13/2019	64.80	-	-	3849.12
				06/10/2019	64.85	-	-	3849.07
				09/25/2019	64.90	-	-	3849.02
				12/06/2019	64.97	-	-	3848.95
				03/11/2020	64.99	-	-	3848.93
				05/06/2020	65.00	-	-	3848.92
				06/09/2020	65.05	-	-	3848.87
				09/04/2020	65.60	-	-	3848.32
				12/11/2020	65.67	-	-	3848.25
				03/16/2021	65.75	-	-	3848.17
				06/11/2021	65.25	-	-	3848.67
				09/01/2021	65.30	-	-	3848.62
				11/29/2021	65.30	-	-	3848.62
				03/02/2022	65.93	-	-	3847.99
				06/02/2022	65.99	-	-	3847.93
				09/13/2022	66.04	-	-	3847.88
				12/01/2022	66.08	-	-	3847.84
				03/01/2023	66.14	-	-	3847.78
				06/05/2023	66.18	-	-	3847.74
				09/05/2023	66.21	-	-	3847.71
				12/05/2023	65.80	-	-	3848.12
				03/04/2024	65.85	-	-	3848.07
				06/03/2024	65.89	-	-	3848.03
				08/30/2024	65.97	-	-	3847.95
				12/02/2024	65.95	-	-	3847.97
MW-10 2"	3914.96	53	73	03/08/2016	65.32	-	-	3849.64
				05/24/2016	65.40	-	-	3849.56
				09/08/2016	65.41	-	-	3849.55
				12/05/2016	65.48	-	-	3849.48
				03/08/2017	65.50	-	-	3849.46
				06/13/2017	65.54	-	-	3849.42
				09/12/2017	65.46	-	-	3849.50
				12/13/2017	65.66	-	-	3849.30
				03/23/2018	65.64	-	-	3849.32
				06/12/2018	65.30	-	-	3849.66
				09/10/2018	65.72	-	-	3849.24
				12/11/2018	65.82	-	-	3849.14
				03/13/2019	65.87	-	-	3849.09
				06/10/2019	65.92	-	-	3849.04
				09/25/2019	65.97	-	-	3848.99
				12/06/2019	66.02	-	-	3848.94
				03/11/2020	66.05	-	-	3848.91
				05/06/2020	66.00	-	-	3848.96
				06/09/2020	66.07	-	-	3848.89
				09/04/2020	66.98	-	-	3847.98
				12/11/2020	DR	-	-	-
				03/16/2021	DR	-	-	-
				06/11/2021	DR	-	-	-
				09/01/2021	DR	-	-	-
				11/29/2021	DR	-	-	-
				03/02/2022	DR	-	-	-
				06/02/2022	DR	-	-	-
				09/13/2022	DR	-	-	-
				12/01/2022	DR	-	-	-
				03/01/2023	DR	-	-	-
				06/05/2023	DR	-	-	-
				09/05/2023	DR	-	-	-
				12/05/2023	DR	-	-	-
				03/04/2024	DR	-	-	-
				06/03/2024	DR	-	-	-
				08/30/2024	DR	-	-	-
				12/02/2024	DR	-	-	-

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
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Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Date Sampled (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-11 2"	3914.40	52	72	03/08/2016	64.70	-	-	3849.70
				05/24/2016	65.77	-	-	3848.63
				09/08/2016	64.80	-	-	3849.60
				12/05/2016	64.81	-	-	3849.59
				03/08/2017	64.90	-	-	3849.50
				06/13/2017	64.93	-	-	3849.47
				09/12/2017	64.97	-	-	3849.43
				12/13/2017	65.04	-	-	3849.36
				03/23/2018	65.03	-	-	3849.37
				06/12/2018	65.19	-	-	3849.21
				09/10/2018	65.08	-	-	3849.32
				12/11/2018	65.21	-	-	3849.19
				03/13/2019	65.25	-	-	3849.15
				06/10/2019	65.34	-	-	3849.06
				09/25/2019	65.36	-	-	3849.04
				12/06/2019	65.43	-	-	3848.97
				03/11/2020	65.47	-	-	3848.93
				05/06/2020	65.45	-	-	3848.95
				06/09/2020	65.47	-	-	3848.93
				09/04/2020	65.52	-	-	3848.88
				12/11/2020	65.80	-	-	3848.60
				03/16/2021	65.63	-	-	3848.77
				06/11/2021	68.99	-	-	3845.41
				09/01/2021	65.74	-	-	3848.66
				11/29/2021	65.80	-	-	3848.60
				03/02/2022	65.90	-	-	3848.5
				06/02/2022	65.90	-	-	3848.50
				09/13/2022	65.97	-	-	3848.43
				12/01/2022	66.01	-	-	3848.39
				03/01/2023	66.06	-	-	3848.34
				06/05/2023	66.12	-	-	3848.28
				09/05/2023	66.18	-	-	3848.22
				12/05/2023	66.25	-	-	3848.15
				03/04/2024	66.29	-	-	3848.11
				06/03/2024	66.33	-	-	3848.07
				08/30/2024	66.42	-	-	3847.98
				12/02/2024	66.42	-	-	3847.98
MW-12 2"	3913.97	58	78	03/08/2016	64.93	-	-	3849.04
				05/24/2016	64.98	-	-	3848.99
				09/08/2016	65.02	-	-	3848.95
				12/05/2016	65.05	-	-	3848.92
				03/08/2017	65.07	-	-	3848.90
				06/13/2017	65.18	-	-	3848.79
				09/12/2017	64.95	-	-	3849.02
				12/13/2017	64.76	-	-	3849.21
				03/23/2018	64.45	-	-	3849.52
				06/12/2018	65.20	-	-	3848.77
				09/10/2018	65.31	-	-	3848.66
				12/11/2018	65.45	-	-	3848.52
				03/13/2019	65.46	-	-	3848.51
				06/10/2019	65.57	-	-	3848.40
				09/25/2019	65.59	-	-	3848.38
				12/06/2019	65.67	-	-	3848.30
				03/11/2020	65.68	-	-	3848.29
				05/06/2020	65.70	-	-	3848.27
				06/09/2020	65.71	-	-	3848.26
				09/04/2020	67.75	-	-	3846.22
				12/11/2020	65.83	-	-	3848.14
				03/16/2021	65.83	-	-	3848.14
				06/11/2021	65.94	-	-	3848.03
				09/01/2021	66.00	-	-	3847.97
				11/29/2021	66.00	-	-	3847.97
				03/02/2022	66.10	-	-	3847.87
				06/02/2022	66.13	-	-	3847.84
				09/13/2022	66.20	-	-	3847.77
				12/01/2022	66.23	-	-	3847.74
				03/01/2023	66.28	-	-	3847.69
				06/05/2023	66.34	-	-	3847.63
				09/05/2023	66.41	-	-	3847.56
				12/05/2023	66.51	-	-	3847.46
				03/04/2024	66.53	-	-	3847.44
				06/03/2024	66.54	-	-	3847.43
				08/30/2024	66.68	-	-	3847.29
				12/02/2024	66.65	-	-	3847.32

Table 1 - Groundwater Gauging Data - Historical
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Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Date Sampled (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-13 4"	3915.83	54	79	03/08/2016	67.60	65.10	2.50	3850.32
				05/24/2016	66.69	65.31	1.38	3850.29
				09/08/2016	66.53	65.42	1.11	3850.23
				12/01/2016	66.94	65.41	1.53	3850.17
				03/08/2017	66.80	65.42	1.38	3850.18
				06/13/2017	66.45	65.57	0.88	3850.11
				09/12/2017	66.45	65.58	0.87	3850.11
				12/13/2017	66.20	65.71	0.49	3850.04
				03/23/2018	65.81	65.80	0.01	3850.03
				06/12/2018	66.55	65.80	0.75	3849.91
				09/10/2018	65.88	65.78	0.10	3850.03
				12/11/2018	67.00	65.80	1.20	3849.83
				03/13/2019	66.27	66.12	0.15	3849.69
				06/10/2019	67.20	66.00	1.20	3849.63
				09/25/2019	66.55	66.04	0.51	3849.71
				12/06/2019	66.80	66.25	0.55	3849.49
				03/11/2020	66.30	66.24	0.06	3849.58
				05/06/2020	66.35	66.20	0.15	3849.61
				06/09/2020	66.86	66.10	0.76	3849.60
				09/04/2020	DR	-	-	-
				12/11/2020	66.55	66.54	0.01	3849.29
				03/16/2021	67.50	66.40	1.10	3849.25
				06/11/2021	67.10	66.40	0.70	3849.31
				09/01/2021	67.15	66.35	0.80	3849.35
				11/29/2021	66.83	66.80	0.03	3849.03
				03/02/2022	68.57	66.23	2.34	3849.21
				06/02/2022	67.85	66.54	1.31	3849.07
				09/13/2022	68.25	66.80	1.45	3848.79
				12/01/2022	67.45	66.84	0.61	3848.89
				03/01/2023	66.98	66.75	0.23	3849.04
				06/05/2023	67.25	66.80	0.45	3848.96
				09/05/2023	67.76	66.75	1.01	3848.91
				12/05/2023	67.75	67.10	0.65	3848.62
				03/04/2024	67.54	66.08	1.46	3849.51
				06/03/2024	67.55	67.14	0.41	3848.62
				08/30/2024	67.49	67.10	0.39	3848.67
				12/02/2024	67.42	67.13	0.29	3848.65
MW-14 4"	3915.72	53	78	03/08/2016	68.35	64.91	3.44	3850.24
				05/24/2016	65.62	65.49	0.13	3850.21
				09/08/2016	65.73	65.54	0.19	3850.15
				12/01/2016	66.31	65.50	0.81	3850.09
				03/08/2017	66.25	65.50	0.75	3850.10
				06/13/2017	66.72	65.50	1.22	3850.02
				09/12/2017	67.05	65.50	1.55	3849.96
				12/13/2017	66.90	65.45	1.45	3850.03
				03/23/2018	67.75	65.42	2.33	3849.92
				06/12/2018	68.09	65.49	2.60	3849.80
				09/10/2018	65.19	65.18	0.01	3850.54
				12/11/2018	66.08	65.95	0.13	3849.75
				03/13/2019	66.05	66.03	0.02	3849.69
				06/10/2019	66.12	66.08	0.04	3849.63
				09/25/2019	66.12	66.10	0.02	3849.62
				12/06/2019	66.20	66.17	0.03	3849.55
				03/11/2020	66.25	66.20	0.05	3849.51
				05/06/2020	66.25	66.20	0.05	3849.51
				06/09/2020	66.27	66.22	0.05	3849.49
				09/04/2020	66.30	66.29	0.01	3849.43
				12/11/2020	66.37	66.36	0.01	3849.36
				03/16/2021	66.40	66.38	0.02	3849.34
				06/11/2021	66.46	66.44	0.02	3849.28
				09/01/2021	66.48	66.47	0.01	3849.25
				11/29/2021	66.56	66.52	0.04	3849.19
				03/02/2022	66.60	66.58	0.02	3849.14
				06/02/2022	66.65	66.63	0.02	3849.09
				09/13/2022	66.71	66.70	0.01	3849.02
				12/01/2022	66.79	66.78	0.01	3848.94
				03/01/2023	66.83	66.82	0.01	3848.90
				06/05/2023	66.90	66.89	0.01	3848.83
				09/05/2023	66.91	66.89	0.02	3848.83
				12/05/2023	67.02	67.00	0.02	3848.72
				03/04/2024	67.05	67.03	0.02	3848.69
				06/03/2024	67.09	67.06	0.03	3848.66
				08/30/2024	67.16	67.13	0.03	3848.59
				12/02/2024	67.23	67.18	0.05	3848.53

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MW-15 4"	3915.84	54	79	03/08/2016	65.81	65.20	0.61	3850.54
				05/24/2016	65.87	65.21	0.66	3850.52
				09/08/2016	65.42	65.36	0.06	3850.47
				12/01/2016	65.48	65.42	0.06	3850.41
				03/08/2017	65.45	65.40	0.05	3850.43
				06/13/2017	65.68	65.46	0.22	3850.34
				09/12/2017	65.57	65.52	0.05	3850.31
				12/13/2017	65.65	65.59	0.06	3850.24
				03/23/2018	65.68	65.59	0.09	3850.24
				06/12/2018	65.80	65.65	0.15	3850.17
				09/10/2018	65.61	-	-	3850.23
				12/11/2018	65.77	-	-	3850.07
				03/13/2019	65.79	-	-	3850.05
				06/10/2019	65.84	-	-	3850.00
				09/25/2019	65.90	-	-	3849.94
				12/06/2019	65.97	-	-	3849.87
				03/11/2020	66.00	-	-	3849.84
				05/06/2020	66.00	-	-	3849.84
				06/09/2020	66.08	-	-	3849.76
				09/04/2020	66.05	-	-	3849.79
				12/11/2020	66.12	-	-	3849.72
				03/16/2021	66.15	-	-	3849.69
				06/11/2021	65.89	-	-	3849.95
				09/01/2021	66.26	-	-	3849.58
				11/29/2021	66.30	-	-	3849.54
				03/02/2022	66.40	-	-	3849.44
				06/02/2022	66.40	-	-	3849.44
				09/13/2022	66.52	-	-	3849.32
				12/01/2022	66.52	-	-	3849.32
				03/01/2023	66.59	-	-	3849.25
				06/05/2023	66.64	-	-	3849.20
				09/05/2023	66.70	-	-	3849.14
				12/05/2023	66.77	-	-	3849.07
				03/04/2024	66.79	-	-	3849.05
				06/03/2024	66.84	-	-	3849.00
				08/30/2024	66.91	-	-	3848.93
				12/02/2024	66.95	-	-	3848.89
MW-16 4"	3915.43	54	79	03/08/2016	65.78	65.00	0.78	3850.30
				05/24/2016	65.85	65.00	0.85	3850.29
				09/08/2016	65.23	65.20	0.03	3850.23
				12/01/2016	65.32	65.23	0.09	3850.19
				03/08/2017	65.27	65.21	0.06	3850.21
				06/13/2017	65.35	65.29	0.06	3850.13
				09/12/2017	65.40	65.33	0.07	3850.09
				12/13/2017	65.44	65.38	0.06	3850.04
				03/23/2018	65.48	65.40	0.08	3850.02
				06/12/2018	65.65	65.45	0.20	3849.95
				09/10/2018	65.45	-	-	3849.98
				12/11/2018	65.60	-	-	3849.83
				03/13/2019	65.60	-	-	3849.83
				06/10/2019	65.65	-	-	3849.78
				09/25/2019	65.75	-	-	3849.68
				12/06/2019	65.86	-	-	3849.57
				03/11/2020	65.81	-	-	3849.62
				05/06/2020	65.82	-	-	3849.61
				06/09/2020	65.87	-	-	3849.56
				09/04/2020	65.90	-	-	3849.53
				12/11/2020	65.96	-	-	3849.47
				03/16/2021	65.97	-	-	3849.46
				06/11/2021	66.83	-	-	3848.60
				09/01/2021	66.07	-	-	3849.36
				11/29/2021	66.12	-	-	3849.31
				03/02/2022	66.25	-	-	3849.18
				06/02/2022	66.25	-	-	3849.18
				09/13/2022	66.31	-	-	3849.12
				12/01/2022	66.34	-	-	3849.09
				03/01/2023	66.41	-	-	3849.02
				06/05/2023	66.45	-	-	3848.98
				09/05/2023	66.50	-	-	3848.93
				12/05/2023	66.61	-	-	3848.82
				03/04/2024	66.63	-	-	3848.80
				06/03/2024	66.68	-	-	3848.75
				08/30/2024	66.74	-	-	3848.69
				12/02/2024	66.78	-	-	3848.65

Table 1 - Groundwater Gauging Data - Historical
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SRS#: 2002-10312

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Date Sampled (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-17 4"	3915.59	58	78	03/08/2016	68.59	64.51	4.08	3850.41
				05/24/2016	67.19	64.85	2.34	3850.35
				09/08/2016	66.61	65.04	1.57	3850.29
				12/01/2016	67.28	65.96	1.32	3849.41
				03/08/2017	66.97	65.03	1.94	3850.24
				06/13/2017	66.65	65.14	1.51	3850.20
				09/12/2017	66.43	65.28	1.15	3850.12
				12/13/2017	66.07	65.40	0.67	3850.08
				03/23/2018	65.64	65.51	0.13	3850.06
				06/12/2018	66.50	65.44	1.06	3849.98
				09/10/2018	66.59	65.38	1.21	3850.01
				12/11/2018	67.24	65.40	1.84	3849.89
				03/13/2019	66.19	65.84	0.35	3849.69
				06/10/2019	67.21	65.50	1.71	3849.81
				09/25/2019	66.55	65.68	0.87	3849.77
				12/06/2019	65.87	65.70	0.17	3849.86
				03/11/2020	66.05	65.91	0.14	3849.66
				05/06/2020	66.25	65.85	0.4	3849.67
				06/09/2020	67.81	65.80	2.01	3849.46
				09/04/2020	66.70	65.85	0.85	3849.60
				12/11/2020	66.16	66.14	0.02	3849.45
				03/16/2021	68.20	65.79	2.41	3849.40
				06/11/2021	68.07	65.78	2.29	3849.43
				09/01/2021	67.94	65.82	2.12	3849.42
				11/29/2021	66.63	66.18	0.45	3849.34
				03/02/2022	69.45	65.65	3.8	3849.31
				06/02/2022	68.72	65.88	2.84	3849.24
				09/13/2022	69.23	65.90	3.33	3849.14
				12/01/2022	67.60	66.25	1.35	3849.12
				03/01/2023	66.95	66.43	0.52	3849.07
				06/05/2023	67.52	66.38	1.14	3849.02
				09/05/2023	67.87	66.35	1.52	3848.99
				12/05/2023	67.77	66.52	1.25	3848.86
				03/04/2024	67.72	66.56	1.16	3848.84
				06/03/2024	67.54	66.64	0.90	3848.80
				08/30/2024	67.53	66.73	0.80	3848.73
				12/02/2024	67.30	66.80	0.50	3848.71
MW-18 4"	3912.90	55	80	03/08/2016	64.19	-	-	3848.71
				05/24/2016	63.45	-	-	3849.45
				09/08/2016	64.50	-	-	3848.40
				12/05/2016	64.62	-	-	3848.28
				03/08/2017	64.50	-	-	3848.40
				06/13/2017	64.70	-	-	3848.20
				09/12/2017	63.83	-	-	3849.07
				12/13/2017	64.66	-	-	3848.24
				03/23/2018	64.69	-	-	3848.21
				06/12/2018	64.75	-	-	3848.15
				09/10/2018	65.85	-	-	3847.05
				12/11/2018	64.87	-	-	3848.03
				03/13/2019	64.90	-	-	3848.00
				06/10/2019	64.97	-	-	3847.93
				09/25/2019	65.01	-	-	3847.89
				12/06/2019	66.10	-	-	3846.80
				03/11/2020	65.18	-	-	3847.72
				05/06/2020	65.10	-	-	3847.80
				06/09/2020	66.10	-	-	3846.80
				09/04/2020	65.25	-	-	3847.65
				12/11/2020	66.24	-	-	3846.66
				03/16/2021	65.30	-	-	3847.60
				06/10/2021	65.48	-	-	3847.42
				09/01/2021	65.40	-	-	3847.50
				11/29/2021	65.50	-	-	3847.40
				03/02/2022	65.84	-	-	3847.06
				06/02/2022	65.66	-	-	3847.24
				09/13/2022	65.63	-	-	3847.27
				12/01/2022	65.66	-	-	3847.24
				03/01/2023	65.72	-	-	3847.18
				06/05/2023	65.79	-	-	3847.11
				09/05/2023	65.83	-	-	3847.07
				12/05/2023	65.93	-	-	3846.97
				03/04/2024	65.95	-	-	3846.95
				06/03/2024	65.98	-	-	3846.92
				08/30/2024	66.08	-	-	3846.82
				12/02/2024	66.10	-	-	3846.80

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Date Sampled (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-19 4"	3913.35	60	80	09/10/2018	65.41	-	-	3847.94
				12/11/2018	65.55	-	-	3847.80
				03/13/2019	65.58	-	-	3847.77
				06/10/2019	65.65	-	-	3847.70
				09/25/2019	65.68	-	-	3847.67
				12/06/2019	65.75	-	-	3847.60
				03/11/2020	65.80	-	-	3847.55
				05/06/2020	65.80	-	-	3847.55
				06/09/2020	65.82	-	-	3847.53
				09/04/2020	65.90	-	-	3847.45
				12/11/2020	65.92	-	-	3847.43
				03/16/2021	64.95	-	-	3848.40
				06/10/2021	66.05	-	-	3847.30
				09/01/2021	66.12	-	-	3847.23
				11/29/2021	66.10	-	-	3847.25
				03/02/2022	66.30	-	-	3847.05
				06/02/2022	66.31	-	-	3847.04
				09/13/2022	66.32	-	-	3847.03
				12/01/2022	66.35	-	-	3847.00
				03/01/2023	66.40	-	-	3846.95
				06/05/2023	66.47	-	-	3846.88
				09/05/2023	66.51	-	-	3846.84
				12/05/2023	66.61	-	-	3846.74
				03/04/2024	66.64	-	-	3846.71
				06/03/2024	66.67	-	-	3846.68
				08/30/2024	66.76	-	-	3846.59
				12/02/2024	66.78	-	-	3846.57
MW-20 4"	3912.13	60	80	09/10/2018	64.31	-	-	3847.82
				12/11/2018	65.45	-	-	3846.68
				03/13/2019	64.48	-	-	3847.65
				06/10/2019	65.57	-	-	3846.56
				09/25/2019	65.60	-	-	3846.53
				12/06/2019	64.66	-	-	3847.47
				03/11/2020	64.69	-	-	3847.44
				05/06/2020	64.68	-	-	3847.45
				06/09/2020	64.71	-	-	3847.42
				09/04/2020	64.76	-	-	3847.37
				12/11/2020	64.82	-	-	3847.31
				03/16/2021	64.85	-	-	3847.28
				06/10/2021	64.94	-	-	3847.19
				09/01/2021	65.00	-	-	3847.13
				11/29/2021	65.00	-	-	3847.13
				03/02/2022	65.10	-	-	3847.03
				06/02/2022	65.13	-	-	3847.00
				09/13/2022	65.22	-	-	3846.91
				12/01/2022	65.25	-	-	3846.88
				03/01/2023	65.30	-	-	3846.83
				06/05/2023	65.37	-	-	3846.76
				09/05/2023	65.42	-	-	3846.71
				12/05/2023	65.52	-	-	3846.61
				03/04/2024	65.65	-	-	3846.48
				06/03/2024	65.67	-	-	3846.46
				08/30/2024	65.68	-	-	3846.45
				12/02/2024	65.68	-	-	3846.45

Specific Gravity: 0.75
Notes:
fmsl = Feet above mean sea level
DR = Well dry
DS = Well destroyed
NG = Well not gauged
NL = Well not located
NSA = No access
OB = Obstruction in well
PA = Well plugged and abandoned

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
NMWQCC - Groundwater		0.010	0.750	0.750	0.620	-
MW-1	03/08/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/24/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	09/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/08/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2017	0.000700 J	<0.00100	<0.000657	<0.000642	0.000700 J
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/26/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/15/2019	0.00442	<0.000367	<0.000657	<0.00063	0.00442
	06/11/2019	<0.000371	<0.000333	<0.000597	<0.000572	<0.000333
	09/26/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/07/2019	0.00424	<0.000367	0.000660	<0.000630	0.00490
	03/12/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/11/2020	<0.000408 F	<0.000367 F	<0.000657 LF	<0.000630	<0.000367
	09/10/2020	0.00236	<0.000367	<0.000657	<0.000630	0.00236
	12/14/2020	0.000820 J	<0.002000	0.00270	0.00303	0.006550
	03/19/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	11/29/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/13/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/02/2022	<0.000408	0.000657 J *1	<0.000657	<0.000642 *1	0.000657 J
	03/02/2023	<0.000408 *1	<0.000367	<0.000657	0.00161 J	0.00161 J
	06/07/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2024	<0.00100	<0.00100	0.00107	<0.00100	0.00107
	12/03/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-3	03/08/2016	**0.127**	<0.000238	0.0904	0.0707	-
	05/24/2016	**0.151**	<0.000238	0.129	0.107	-
	09/08/2016	**0.166**	<0.000621	0.132	0.123	-
	12/05/2016	**0.261**	<0.00100	0.217	0.234	-
	03/08/2017	**0.146**	<0.000367	0.143	0.146	0.435
	06/13/2017	**0.159**	0.00296	0.238	0.156	0.556
	09/14/2017	**0.101**	<0.000367	0.178	0.129	0.408
	12/18/2017	**0.0232**	0.000750 J	0.0325	0.0228	0.0792
	03/26/2018	**0.0119**	0.00131 J	0.0241	0.0171	0.0544
	06/12/2018	**0.0108**	<0.000512	0.0266	0.0176	0.0550
	09/11/2018	**0.0132**	<0.000367	0.0317	0.0184	0.0633
	12/12/2018	**0.0341**	<0.000512	0.0725	0.123	0.230
	03/15/2019	**0.0189**	0.00157	0.0822	0.120	0.222
	06/10/2019	**0.0101**	<0.000342	0.0551	0.0419	0.107
	09/26/2019	0.00860	<0.000367	0.0480	0.0380	0.0946
	12/07/2019	0.00508	<0.000367	0.0360	0.0189	0.0600
	03/12/2020	<0.000408	<0.000367	0.0560	0.0454	0.101
	06/11/2020	0.00554 F	<0.000367 F	0.0774 LF	0.110	0.193
	09/08/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/14/2020	0.00300	<0.002000	0.0364	0.0597	0.09914
	03/19/2021	0.00291	0.000481 J		0.00208 J	0.0281
	06/11/2021	0.00163 J	<0.00200	0.0838	0.107	0.193
	09/07/2021	<0.00200	<0.00200	0.0561	0.0718	0.128
	11/30/2021	0.000494 J	<0.00200	0.0339	0.0225	0.0569
	03/03/2022	<0.000408	<0.000367	0.0265	0.00488	0.0314
	06/03/2022	<0.000408	<0.000367	0.0494	0.0641	0.113
	09/13/2022	<0.000408	<0.000367	<0.000657	0.0306	0.0306
	12/05/2022	<0.000408	0.000367 J *1	0.0269	0.0222	0.0494
	03/02/2023	<0.000408 *1	<0.000367	0.0164	0.00823	0.0246
	06/07/2023	<0.00100	<0.00100	0.00373	<0.00100	0.00373
	09/05/2023	<0.00100	<0.00100	0.00740	0.00286	0.0103
	12/06/2023	<0.00100	<0.00100	0.00250	<0.00100	0.00250
	03/04/2024	<0.00100	<0.00100	0.00345	<0.00100	0.00345
	06/04/2024	<0.00100	<0.00100	0.00860	<0.00100	0.00860
	09/05/2024	<0.00100	<0.00100	0.0150	0.00206	0.0171
	12/06/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
NMWQCC - Groundwater		0.010	0.750	0.750	0.620	-
MW-4	03/08/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/24/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	09/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/08/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/26/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/12/2018	0.00140	<0.000512	<0.000616	<0.000270	0.00140
	09/11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/15/2019	<0.000408	<0.000367	0.000980	0.00107	0.00205
	06/10/2019	<0.000372	<0.000335	<0.0006	<0.000575	<0.000335
	09/26/2019	0.00619	<0.000367	<0.000657	<0.000630	0.00619
	12/07/2019	0.000710	<0.000367	<0.000657	<0.000630	0.000710
	03/11/2020	**0.0123**	<0.000367	<0.000657	<0.000630	0.0123
	06/11/2020	<0.000408 F	<0.000367 F	<0.000657 LF	<0.000630	<0.000367
	09/08/2020	**0.0132**	<0.000367	0.0497	0.0722	0.135
	12/14/2020	0.00110 J	<0.002000	0.00457	0.00659	0.01226
	03/18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/07/2021	<0.00200	<0.00200	0.00157 J	0.00179 J	0.00336 J
	11/30/2021	<0.0200	<0.0200	<0.0200	<0.0400	<0.0400
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/13/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/02/2022	<0.000408	<0.000367 *1	<0.000657 *1	<0.000642 *1	<0.000657
	03/02/2023	<0.000408 *1	<0.000367	<0.000657	0.00160 J	0.00160 J
	06/07/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2024	<0.00100	<0.00100	0.0103	0.0101	0.0204
	12/02/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-5	03/08/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/24/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	09/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/08/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2017	0.000800 J	<0.00100	<0.000657	<0.000642	0.000800 J
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/26/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/15/2019	0.00692	<0.000367	<0.000657	<0.00063	0.00692
	06/11/2019	<0.000387	<0.000348	<0.000623	<0.000597	<0.000348
	09/26/2019	**0.0132**	<0.000367	<0.000657	<0.000630	0.0132
	12/07/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/12/2020	0.00405	<0.000367	<0.000657	<0.000630	0.00405
	06/11/2020	0.00131 JF	<0.000367 F	<0.000657 LF	<0.000630	0.00131 J
	09/10/2020	0.00138 J	<0.000367	<0.000657	<0.000630	0.00138 J
	12/15/2020	0.000650 J	<0.002000	0.00134 J	0.00131 J	0.003300
	03/18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	11/30/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/13/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/05/2022	<0.000408	<0.000367 *1	<0.000657 *1	<0.000642 *1	<0.000657
	03/02/2023	<0.000408 *1	<0.000367	<0.000657	0.00161 J	0.00161 J
	06/07/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2024	<0.00100	<0.00100	0.00167	<0.00100	0.00167
	12/03/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
NMWQCC - Groundwater		0.010	0.750	0.750	0.620	-
MW-6	03/08/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/24/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	09/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/08/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2017	0.00344	<0.00100	<0.000657	<0.000642	0.00344
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/26/2018	<0.000408	0.000720 J	<0.000657	<0.000630	0.000720 J
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/14/2019	0.00396	<0.000367	<0.000657	<0.00063	0.00396
MW-7	03/08/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/24/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	09/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/08/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2017	0.00481	<0.00100	<0.000657	<0.000642	0.00481
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/26/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/12/2018	0.00150	<0.000512	0.00120	<0.000270	0.00270
	09/11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/14/2019	0.000630	<0.000367	<0.000657	<0.00063	0.000630
	06/10/2019	**0.0407**	<0.000314	<0.000562	<0.000538	0.0407
	09/26/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/07/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/01/2023	<0.000408 *1	0.000688 J *1	<0.000657	<0.000642	0.000688 J
MW-8	03/08/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/24/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	09/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/08/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2017	0.00272	<0.00100	<0.000657	<0.000642	0.00272
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/26/2018	<0.000408	0.000610 J	<0.000657	<0.000630	0.000610 J
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/15/2019	0.00530	<0.000367	<0.000657	<0.00063	0.00530
	06/11/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	09/26/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/07/2019	**0.0586**	<0.000367	0.00422	<0.000630	0.0628
	03/12/2020	0.00465	<0.000367	<0.000657	<0.000630	0.00465
	06/11/2020	0.000870 JF	<0.000367 F	<0.000657 LF	<0.000630	0.000870 J
	09/10/2020	0.00208	<0.000367	<0.000657	<0.000630	0.00208
	12/15/2020	0.000590 J	<0.002000	0.00116 J	0.00132 J	0.003070
	03/29/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	11/30/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/13/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/05/2022	<0.000408	0.000429 J *1	<0.000657 *1	<0.000642 *1	<0.000657
	03/01/2023	<0.000408 *1	0.000911 J	<0.000657	<0.000642	0.000911 J
	06/08/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2024	<0.00100	<0.00100	0.00108	<0.00100	0.00108
	12/03/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
NMWQCC - Groundwater		0.010	0.750	0.750	0.620	-
MW-9	03/08/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/24/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	09/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/08/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2017	0.00113 J	<0.00100	<0.000657	<0.000642	0.00113 J
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/26/2018	<0.000408	0.000680 J	<0.000657	<0.000630	0.000680 J
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/14/2019	0.000930	<0.000367	<0.000657	<0.00063	0.000930
	06/11/2019	<0.000373	<0.000335	<0.0006	<0.000575	<0.000335
	09/26/2019	**0.0105**	<0.000367	<0.000657	<0.000630	0.0105
	12/07/2019	0.000410	<0.000367	<0.000657	<0.000630	0.000410
	03/12/2020	0.00583	<0.000367	<0.000657	<0.000630	0.00583
	09/10/2020	0.00496	<0.000367	<0.000657	<0.000630	0.00496
	12/15/2020	0.000750 J	<0.002000	0.00166 J	0.00163 J	0.004040
	03/18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	11/30/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/03/2022	<0.000408	<0.000367	<0.000657	0.00110 J	0.00110 J
	09/13/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/05/2022	<0.000408	0.000424 J *1	<0.000657 *1	<0.000642 *1	<0.000657
	03/01/2023	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/08/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/06/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2024	<0.00100	<0.00100	0.00119	<0.00100	0.00119
	12/03/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-10	03/08/2016	**2.62**	<0.0119	0.222	<0.0122	-
	05/24/2016	**2.38**	<0.00238	0.127	0.0325	-
	09/08/2016	**3.16**	<0.0329	0.181	<0.0136	-
	12/05/2016	**3.35**	<0.0200	0.178	0.0420	-
	03/08/2017	**2.69**	0.0620 J	0.303	0.0790 J	3.13
	06/13/2017	0.00417	<0.00100	<0.000657	<0.000642	0.00417
	09/14/2017	**11.5 D**	<0.000367	**0.901 D**	0.0192	12.4
	12/18/2017	**12.1 D**	0.00857	**0.953 D**	0.0257	13.1
	03/26/2018	**5.04**	0.0270 J	0.518	<0.0315	5.59
	06/12/2018	**3.94**	<0.00512	0.422	<0.00270	4.36
	09/11/2018	**6.30 D**	0.000380 J	0.693 D	0.00625	7.00
	12/11/2018	**3.65**	<0.0256	0.420	<0.0135	4.07
	03/14/2019	**4.29**	<0.000367	0.142	<0.00063	4.43
	06/10/2019	**32**	<0.0367	**2.89**	**2.56**	38
	09/26/2019	**4.43**	<0.000367	0.307	<0.000630	4.74
	12/07/2019	**1.12**	<0.000367	0.0564	<0.000630	1.18
	03/11/2020	**3.03 D**	<0.000367	0.161	<0.000630	3.19
	06/11/2020	**2.33 DF**	0.00104 JF	0.0498 LF	0.00203	2.38

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
NMWQCC - Groundwater		0.010	0.750	0.750	0.620	-
MW-11	03/08/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/24/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	09/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/08/2017	0.000720 J	<0.000367	<0.000657	<0.000630	0.000720 J
	06/13/2017	0.00424	<0.00100	<0.000657	<0.000642	0.00424
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/26/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/12/2018	0.00270	<0.000512	<0.000616	<0.000270	0.00270
	09/11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/14/2019	**0.0101**	<0.000367	0.00173	0.00146	0.0133
	06/10/2019	<0.000378	<0.00034	<0.000609	<0.000584	<0.00034
	09/26/2019	**0.0429**	<0.000367	0.00902	<0.000630	0.0519
	12/07/2019	0.000820	0.000440	<0.000657	<0.000630	0.00126
	03/12/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/11/2020	<0.000408 F	<0.000367 F	<0.000657 LF	<0.000630	<0.000367
	09/08/2020	0.00575	<0.000367	0.00384	0.00263	0.0122
	12/15/2020	0.00153 J	<0.002000	0.00251	0.00254	0.006580
	03/29/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	11/30/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/13/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/05/2022	<0.000408	<0.000367 *1	<0.000657 *1	<0.000642 *1	<0.000657
	03/01/2023	<0.000408	0.000416 J	<0.000657	<0.000642	<0.000657
	06/08/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2024	<0.00100	<0.00100	0.00511	0.00507	0.0102
	12/03/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-12	03/08/2016	**1.88**	<0.0119	<0.0119	<0.0122	-
	05/24/2016	**0.634**	<0.0119	<0.0119	<0.0122	-
	09/08/2016	**0.162**	<0.0329	<0.0404	<0.0136	-
	12/05/2016	**0.0577**	<0.00100	<0.000657	<0.000642	-
	03/08/2017	**0.117**	<0.0184	<0.0329	<0.0315	0.117
	06/13/2017	0.00768	<0.00100	<0.000657	<0.000642	0.00768
	09/14/2017	0.00496	<0.000367	0.00168 J	<0.000630	0.00664
	12/18/2017	**0.0304**	<0.000367	0.00627	0.00146 J	0.0381
	03/26/2018	0.000570 J	0.00103 J	<0.000657	<0.000630	0.00160 J
	06/12/2018	0.00130	<0.000512	<0.000616	0.000700 J	0.00200
	09/11/2018	0.00136 J	<0.000367	<0.000657	<0.000630	0.00136 J
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/14/2019	0.000950	<0.000367	<0.000657	<0.00063	0.000950
	06/10/2019	<0.00037	<0.000333	<0.000596	<0.000571	<0.000333
	09/26/2019	0.00564	<0.000367	<0.000657	<0.000630	0.00564
	12/07/2019	0.000680	<0.000367	<0.000657	0.000640	0.00132
	03/12/2020	0.00719	0.000750 J	0.00121 J	<0.000630	0.00915
	06/11/2020	0.00101 JF	<0.000367 F	<0.000657 LF	<0.000630	0.00101 J
	09/10/2020	0.00874	0.000510 J	0.00161 J	0.00117 J	0.0120
	12/15/2020	0.00213	<0.002000	0.00236	0.00217	0.006660
	03/18/2021	0.000887 J	0.000745 J	0.00108 J	0.00273 J	0.00544
	06/11/2021	0.000750 J	0.000555 J	<0.00200	<0.00400	0.00131 J
	09/07/2021	0.000614 J	<0.00200	0.000673 J	<0.00400	0.00129 J
	11/30/2021	0.000479 J	<0.00200	<0.00200	<0.00400	<0.00400
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/03/2022	<0.00816	<0.00734	<0.0131	<0.0128	<0.0131
	09/13/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/02/2022	<0.00408	<0.00367 *1	<0.00657 *1	<0.00642 *1	<0.00657
	03/01/2023	<0.000408 *1	<0.000367	<0.000657	0.00160 J	0.00160 J
	06/08/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2024	0.00100	<0.00100	0.00147	<0.00100	0.00247
	12/03/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
NMWQCC - Groundwater		0.010	0.750	0.750	0.620	-
MW-15	09/11/2018	0.00374	0.00324	0.0468	0.0637	0.117
	12/12/2018	0.00280	<0.000512	0.0474	0.0510	0.101
	03/15/2019	0.00886	<0.000367	0.0254	0.0257	0.0599
	06/10/2019	**0.0122**	<0.000336	0.0954	0.0691	0.177
	09/26/2019	<0.000408	<0.000367	0.0251	0.0161	0.0412
	12/07/2019	0.00162	<0.000367	0.0624	0.0369	0.101
	03/12/2020	<0.000408	<0.000367	0.0265	<0.000630	0.0265
	06/11/2020	0.00205 F	<0.000367 F	0.0235 LF	0.0140	0.0396
	09/11/2020	0.000940 J	<0.000367	0.00715	0.00268	0.0108
	12/15/2020	0.000810 J	<0.002000	0.00257	0.00121 J	0.004590
	03/19/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	<0.00200	<0.00200	0.00263	<0.00400	0.00263 J
	09/07/2021	<0.00200	<0.00200	0.00679	0.000719 J	0.00751
	11/29/2021	<0.00200	<0.00200	0.00373	<0.00400	0.00373 J
	03/03/2022	<0.000408	<0.000367	0.00449	<0.000642	0.00449
	06/03/2022	<0.000408	<0.000367	0.00123 J	0.000946 J	0.00218 J
	09/13/2022	<0.000408	<0.000367	<0.000657	0.00122 J	0.00122 J
	12/05/2022	<0.000408	<0.000367 *1	0.00224	<0.000642 *1	0.00224 J
	03/02/2023	<0.000408	<0.000367 *-	0.00352	0.00181 J	0.00533
	06/07/2023	<0.00100	<0.00100	0.00148	<0.00100	0.00148
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/06/2023	<0.00100	<0.00100	<0.00100	<0.00100	0.00100
	03/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/03/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2024	<0.00100	<0.00100	0.00203	<0.00100	0.00203
	12/02/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-16	09/11/2018	**0.0101**	0.00839	0.0242	0.0314	0.0741
	12/12/2018	0.00230	0.00120	0.00890	0.0150	0.0274
	03/15/2019	0.00408	0.00222	0.00551	0.0114	0.0232
	06/10/2019	<0.000377	<0.000339	<0.000607	<0.000582	<0.000339
	09/26/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/07/2019	0.000470	<0.000367	0.00598	0.00577	0.0122
	03/12/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/11/2020	<0.000408 F	<0.000367 F	<0.000657 LF	<0.000630	<0.000367
	09/11/2020	0.00140 J	0.000380 J	0.00354	0.00299	0.00831
	12/15/2020	0.000590 J	<0.002000	0.00185 J	0.00176 J	0.004200
	03/19/2021	<0.00200	<0.00200	0.00682	0.00928	0.0161
	06/11/2021	<0.00200	<0.00200	0.00192 J	0.00229 J	0.00421
	09/07/2021	<0.00200	<0.00200	0.00151 J	<0.00400	0.00151 J
	11/29/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/13/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/05/2022	<0.000408	<0.000367 *1	<0.000657 *1	<0.000642 *1	<0.000657
	03/02/2023	<0.000408 *1	<0.000367	<0.000657	0.00159 J	0.00159 J
	06/08/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/06/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/03/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2024	<0.00100	<0.00100	0.00145	<0.00100	0.00145
	12/02/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
NMWQCC - Groundwater		0.010	0.750	0.750	0.620	-
MW-18	03/08/2016	**0.267**	<0.000238	0.000900 J	0.000500 J	-
	05/24/2016	**0.0108**	<0.000238	0.000800 J	0.000800 J	-
	09/08/2016	**0.0715**	<0.000621	0.00530	0.00610	-
	12/05/2016	**0.264**	<0.00100	<0.000657	<0.000642	-
	03/08/2017	**0.513**	<0.0184	<0.0329	<0.0315	0.513
	06/13/2017	**5.45**	<0.0250	<0.0164	<0.0161	5.45
	09/14/2017	**0.582 D**	<0.000367	0.00167 J	0.00118 J	0.585
	12/18/2017	**6.82 D**	<0.000367	0.00507	0.0241	6.85
	03/26/2018	**3.50**	0.00760 J	<0.0131	0.0132 J	3.52
	06/12/2018	**3.09**	<0.0256	<0.0308	<0.0135	3.09
	09/11/2018	**0.0801**	<0.000367	<0.000657	0.00463	0.0847
	12/11/2018	**0.0310**	<0.000512	<0.000616	<0.000270	0.0310
	03/14/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	06/10/2019	<0.00038	<0.000342	<0.000612	<0.000586	<0.000342
	09/25/2019	**0.395**	0.0145	0.00727	<0.000630	0.417
	12/07/2019	**0.122**	0.00273	0.00199	0.0109	0.138
	03/11/2020	**0.217**	0.0239	0.0105	0.00489	0.256
	06/11/2020	**0.241 F**	0.0138 F	0.00619 LF	0.0366	0.298
	09/08/2020	**0.135**	0.0242	0.0119	0.0517	0.223
	12/14/2020	**0.0479**	0.0196	0.00646	0.00537	0.07933
	03/18/2021	0.00968 J	0.0236 J	<0.0400	<0.0800	0.0333 J
	06/11/2021	<0.00200	0.0175	0.00494	<0.00400	0.0224
	09/07/2021	0.000698 J	0.00218	0.00494	<0.00400	0.00782
	11/30/2021	0.000702 J	0.00527	0.00141 J	0.0448	0.0522
	03/03/2022	<0.000408	0.00477	<0.000657	<0.000642	0.00477
	06/02/2022	0.00223	<0.000367	<0.000657	0.00104 J	0.00327 J
	09/14/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/05/2022	<0.00408	<0.00367 *1	<0.00657 *1	<0.00642 *1	<0.00657
	03/02/2023	<0.000408 *1	<0.000367	<0.000657	0.00159 J	0.00159 J
	06/07/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/05/2023	0.00107	<0.00100	<0.00100	<0.00100	0.00107
	03/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/03/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2024	0.00186	<0.00100	0.0212	0.0213	0.0444
	12/02/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-19	09/11/2018	**2.41 D**	<0.000367	<0.000657	<0.000630	2.41
	12/11/2018	**6.07**	<0.0102	<0.0123	<0.00540	6.07
	03/14/2019	**2.11**	<0.000367	<0.000657	<0.00063	2.11
	06/10/2019	**0.302**	<0.000367	<0.000657	<0.00063	0.302
	09/25/2019	**3.99**	<0.000367	0.00585	<0.000630	4.00
	12/07/2019	0.00180	0.000720	0.00206	0.00447	0.00905
	03/11/2020	**3.96 D**	0.00557	0.00777	0.00131 J	3.97
	06/11/2020	<0.000408 F	<0.000367 F	<0.000657 LF	<0.000630	<0.000367
	09/08/2020	**1.21**	<0.00184	<0.00329	<0.00315	1.21
	12/14/2020	**0.336 X**	0.00208	0.00131 J	0.00116 J	0.3406
	03/18/2021	**0.0235**	<0.00200	<0.00200	<0.00400	0.0235
	06/11/2021	**0.0958**	<0.00200	<0.00200	0.00114 J	0.0969
	09/07/2021	**0.110**	0.00112 J	<0.00200	<0.00400	0.111
	11/30/2021	0.00575	0.00039 J	<0.00200	<0.00400	0.00614
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/02/2022	**0.0268**	<0.000367	0.00322	0.0223	0.0523
	09/14/2022	0.000773 J	<0.000367	<0.000657	<0.000642	0.000773 J
	12/02/2022	0.00110 J	0.000628 J *1	<0.000657 *1	<0.000642 *1	0.00173 J
	03/01/2023	<0.000408	<0.000367	0.00149 J	0.00273 J	0.00422
	06/07/2023	<0.00100	<0.00100	<0.00100	<0.00100	0.000710
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	0.000600
	12/05/2023	<0.00100	<0.00100	<0.00100	0.00127	0.00127
	03/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2024	0.00349	0.00112	0.0433	0.0460	0.0939
	12/02/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
NMWQCC - Groundwater		0.010	0.750	0.750	0.620	-
MW-20	09/11/2018	0.00373	<0.000367	<0.000657	<0.000630	0.00373
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/14/2019	0.00741	<0.000367	<0.000657	<0.00063	0.00741
	06/10/2019	**0.0373**	<0.000367	<0.000657	<0.00063	0.0373
	09/25/2019	**0.0606**	<0.000367	<0.000657	<0.000630	0.0606
	12/07/2019	**2.24**	0.00218	0.00376	0.00340	2.25
	03/11/2020	**0.0227**	<0.000367	<0.000657	<0.000630	0.0227
	06/11/2020	<0.000408 F	<0.000367 F	<0.000657 LF	<0.000630	<0.000367
	09/08/2020	<0.000408 XF	<0.000367 XF	<0.000657 XF	<0.000630	<0.000367
	12/14/2020	0.00320	<0.002000	<0.002000	<0.002000	0.003200
	03/18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	0.000427 J	<0.00200	<0.00200	<0.00400	<0.00400
	09/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	11/30/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/02/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/13/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/02/2022	<0.000408	<0.000367 *1	<0.000657 *1	<0.000642 *1	<0.000657
	03/01/2023	<0.000408	0.000372 J	<0.000657	<0.000642	<0.000657
	06/07/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/04/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2024	0.00839	0.00321	0.148	0.168	0.328
	12/02/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Notes:
Lab Flags noted next to values. See lab report for description.

Analyte concentration exceeds the standard for:
NMWQCC - Groundwater

Table 3 - Groundwater Analytical Data - Historical - PAH Supplement
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Date Sampled	Acenaphthene (mg/L)	Acenaphthylene (mg/L)	Anthracene (mg/L)	Benzo(a)anthracene (mg/L)	Benzo(a)pyrene (mg/L)	Benzo(b)fluoranthene (mg/L)	Benzo(g,h,i)perylene (mg/L)	Benzo(k)fluoranthene (mg/L)	Chrysene (mg/L)	Dibenz(a,h)anthracene (mg/L)	Dibenzofuran (mg/L)	Fluoranthene (mg/L)	Fluorene (mg/L)	Indeno (1,2,3-c,d) pyren (mg/L)	Naphthalene (mg/L)	Phenanthrene (mg/L)	Pyrene (mg/L)
NMWQCC - Groundwater		-	-	-	-	0.007	-	-	-	-	-	-	-	-	-	0.03	-	-
MW-4	03/26/2018	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	0.000136 J	<0.000109	<0.000109
	03/15/2019	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	<0.0000053	<0.0000090	<0.0000055	<0.0000049	0.000122	<0.0000055	<0.0000092
	03/11/2020	<0.000103	<0.0000871	<0.0000896	<0.000139	<0.0000590	<0.0000735	<0.000117	<0.000120	<0.000161	<0.0000786	-	<0.000163	<0.000104	<0.0000945	<0.000101	<0.0000880	<0.000135
MW-10	12/05/2016	0.000155	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	0.000214	<0.0000250	0.000465	<0.0000250	<0.0000250	0.000296	<0.0000250
	03/26/2018	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	0.000985	<0.000110	0.00167	<0.000110	0.000329 J	0.00129	<0.000110
	03/14/2019	<0.0000040	<0.0000072	<0.0000075	<0.0000063	<0.0000095	<0.0000090	<0.0000079	<0.0000077	<0.0000087	<0.0000049	0.000142	<0.0000089	0.000255	<0.0000049	0.0000739	0.0000810	<0.0000091
	03/11/2020	0.000555	<0.000104	<0.000107	<0.000166	<0.0000706	<0.0000879	<0.000140	<0.000144	<0.000193	<0.000094	-	<0.000194	0.00216	<0.000113	0.000301 J	0.00210	<0.000161
MW-12	12/05/2016	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	0.000110	<0.0000250	0.000505	<0.0000250	<0.0000250	0.000122	0.0000626
	03/26/2018	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	0.000241	<0.000108	0.000473	<0.000108	0.000247 J	<0.000108	<0.000108
	03/14/2019	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	0.000157	<0.0000090	0.000322	<0.0000049	<0.0000045	<0.0000055	<0.0000092
	03/12/2020	<0.000111	<0.0000931	<0.0000958	<0.000149	<0.0000631	<0.0000786	<0.000125	<0.000128	<0.000173	<0.0000840	-	<0.000174	0.000400	<0.000101	<0.000108	<0.0000940	<0.000144
MW-18	03/08/2016	<0.0000329	<0.0000575	<0.0000318	<0.0000714	<0.0000414	<0.0000703	<0.0000514	<0.0000555	<0.0000803	<0.0000556	<0.0000601	<0.0000632	<0.0000780	<0.0000532	<0.0000649	<0.0000511	<0.0000411
	03/26/2018	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	0.000829	<0.000110	<0.000110	<0.000110	0.000447	0.000388	<0.000110
	03/14/2019	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	0.0000305	<0.0000090	0.0000255	<0.0000049	0.0000325	<0.0000055	<0.0000092
	03/11/2020	<0.000109	<0.0000916	<0.0000943	<0.000146	<0.0000621	<0.0000774	<0.000123	<0.000126	<0.000170	<0.0000827	-	<0.000171	0.000167 J	<0.0000994	<0.000106	0.000183 J	<0.000142
MW-19	03/14/2019	<0.0000042	<0.0000075	<0.0000077	<0.0000065	<0.0000097	<0.0000093	<0.0000081	<0.0000079	<0.0000090	<0.0000050	<0.0000054	<0.0000091	<0.0000056	<0.0000050	<0.0000046	<0.0000056	<0.0000094
	03/11/2020	0.000168 J	<0.0000855	<0.0000880	<0.000137	<0.0000580	<0.0000722	<0.000115	<0.000118	<0.000159	<0.0000772	-	<0.000160	0.000900	<0.0000928	0.000213 J	0.00112	<0.000132
MW-20	03/14/2019	<0.0000041	<0.0000074	<0.0000077	<0.0000064	<0.0000096	<0.0000092	<0.0000080	<0.0000079	<0.0000089	<0.000005	<0.0000054	<0.0000090	<0.0000055	<0.000005	0.0000398	<0.0000056	<0.0000093
	03/11/2020	<0.000107	<0.0000899	<0.0000925	<0.000144	<0.0000609	<0.0000759	<0.000121	<0.000124	<0.000167	<0.0000811	-	<0.000168	<0.000108	<0.0000975	<0.000104	<0.0000908	<0.000139

Notes:
Lab Flags noted next to values. See lab report for description.

Analyte concentration exceeds the standard for:
NMWQCC - Groundwater

APPENDIX C

Laboratory Analytical Data Reports and Chain of Custody Documentation

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: Lovington Deep

Project Number: Plains All American Pipeline

Location: Lea County, NM

Lab Order Number: 4C05008

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 03/18/24

Talon LPE	Project:	Lovington Deep
2901 S. State Hwy 349	Project Number:	Plains All American Pipeline
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-20	4C05008-01	Water	03/04/24 10:11	03-05-2024 08:30
MW-19	4C05008-02	Water	03/04/24 10:38	03-05-2024 08:30
MW-18	4C05008-03	Water	03/04/24 11:23	03-05-2024 08:30
MW-4	4C05008-04	Water	03/04/24 12:08	03-05-2024 08:30
MW-11	4C05008-05	Water	03/04/24 13:20	03-05-2024 08:30
MW-12	4C05008-06	Water	03/04/24 14:00	03-05-2024 08:30
MW-9	4C05008-07	Water	03/04/24 12:45	03-05-2024 08:30
MW-5	4C05008-08	Water	03/04/24 12:46	03-05-2024 08:30
MW-8	4C05008-09	Water	03/04/24 12:05	03-05-2024 08:30
MW-16	4C05008-10	Water	03/04/24 13:30	03-05-2024 08:30
MW-15	4C05008-11	Water	03/04/24 14:17	03-05-2024 08:30
MW-3	4C05008-12	Water	03/04/24 14:46	03-05-2024 08:30
MW-1	4C05008-13	Water	03/04/24 15:14	03-05-2024 08:30

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-20

4C05008-01 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 22:30	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 22:30	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 22:30	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 22:30	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 22:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/06/24 22:30*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.6 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/06/24 22:30*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/06/24 22:30	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/06/24 22:30	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-19

4C05008-02 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 22:53	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 22:53	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 22:53	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 22:53	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 22:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/06/24 22:53*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.4 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/06/24 22:53*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/06/24 22:53	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/06/24 22:53	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-18

4C05008-03 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 23:16	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 23:16	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 23:16	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 23:16	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 23:16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/06/24 23:16*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.7 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/06/24 23:16*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/06/24 23:16	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/06/24 23:16	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-4

4C05008-04 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 23:39	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 23:39	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 23:39	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 23:39	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/06/24 23:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/06/24 23:39*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.4 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/06/24 23:39*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/06/24 23:39	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/06/24 23:39	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-11

4C05008-05 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 00:02	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 00:02	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 00:02	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 00:02	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 00:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/07/24 00:02*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.1 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/07/24 00:02*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/07/24 00:02	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/07/24 00:02	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-12

4C05008-06 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 01:12	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 01:12	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 01:12	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 01:12	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 01:12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/07/24 01:12*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.7 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/07/24 01:12*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/07/24 01:12	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/07/24 01:12	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-9

4C05008-07 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 01:35	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 01:35	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 01:35	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 01:35	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 01:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/07/24 01:35*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.8 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/07/24 01:35*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/07/24 01:35	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/07/24 01:35	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-5

4C05008-08 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 01:58	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 01:58	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 01:58	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 01:58	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 01:58	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/07/24 01:58*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.9 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/07/24 01:58*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/07/24 01:58	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/07/24 01:58	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-8

4C05008-09 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 02:21	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 02:21	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 02:21	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 02:21	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 02:21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/07/24 02:21*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.8 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/07/24 02:21*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/07/24 02:21	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/07/24 02:21	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-16

4C05008-10 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 02:44	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 02:44	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 02:44	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 02:44	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 02:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/07/24 02:44*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.4 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/07/24 02:44*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/07/24 02:44	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/07/24 02:44	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-15

4C05008-11 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 03:07	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 03:07	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 03:07	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 03:07	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 03:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/07/24 03:07*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.8 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/07/24 03:07*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/07/24 03:07	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/07/24 03:07	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-3

4C05008-12 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 03:30	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 03:30	EPA 8021B	
Ethylbenzene	**0.00345**	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 03:30	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 03:30	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 03:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/07/24 03:30*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.6 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/07/24 03:30*	*EPA 8021B*	
Total BTEX	**0.00345**	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/07/24 03:30	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/07/24 03:30	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-1

4C05008-13 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 03:53	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 03:53	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 03:53	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 03:53	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C0615	03/06/24 14:16	03/07/24 03:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/07/24 03:53*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.5 %*	*80-120*		*P4C0615*	*03/06/24 14:16*	*03/07/24 03:53*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/07/24 03:53	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/06/24 14:16	03/07/24 03:53	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0615 - * DEFAULT PREP *** **										
Blank (P4C0615-BLK1)				Prepared & Analyzed: 03/06/24						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.121*		"	*0.120*		*101*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*95.4*	*80-120*			
LCS (P4C0615-BS1)				Prepared & Analyzed: 03/06/24						
Benzene	0.115	0.00100	mg/L	0.100		115	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.208	0.00200	"	0.200		104	80-120			
Xylene (o)	0.0975	0.00100	"	0.100		97.5	80-120			
Surrogate: 4-Bromofluorobenzene	*0.117*		"	*0.120*		*97.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*96.0*	*80-120*			
LCS Dup (P4C0615-BSD1)				Prepared & Analyzed: 03/06/24						
Benzene	0.107	0.00100	mg/L	0.100		107	80-120	6.45	20	
Toluene	0.0960	0.00100	"	0.100		96.0	80-120	7.28	20	
Ethylbenzene	0.0979	0.00100	"	0.100		97.9	80-120	6.20	20	
Xylene (p/m)	0.196	0.00200	"	0.200		98.0	80-120	5.85	20	
Xylene (o)	0.0920	0.00100	"	0.100		92.0	80-120	5.73	20	
Surrogate: 4-Bromofluorobenzene	*0.117*		"	*0.120*		*97.3*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.7*	*80-120*			
Calibration Blank (P4C0615-CCB1)				Prepared & Analyzed: 03/06/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.510		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.118*		"	*0.120*		*98.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.8*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0615 - * DEFAULT PREP *** **										
Calibration Blank (P4C0615-CCB2)				Prepared: 03/06/24 Analyzed: 03/07/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.300		"							
Xylene (p/m)	0.330		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.4*	*80-120*			
Calibration Blank (P4C0615-CCB3)				Prepared: 03/06/24 Analyzed: 03/07/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.310		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.6*	*80-120*			
Calibration Check (P4C0615-CCV1)				Prepared & Analyzed: 03/06/24						
Benzene	0.114	0.00100	mg/L	0.100		114	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.0957	0.00100	"	0.100		95.7	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Xylene (o)	0.0971	0.00100	"	0.100		97.1	80-120			
Surrogate: 4-Bromofluorobenzene	*0.116*		*"*	*0.120*		*96.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.6*	*80-120*			
Calibration Check (P4C0615-CCV2)				Prepared: 03/06/24 Analyzed: 03/07/24						
Benzene	0.113	0.00100	mg/L	0.100		113	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.0980	0.00100	"	0.100		98.0	80-120			
Xylene (p/m)	0.208	0.00200	"	0.200		104	80-120			
Xylene (o)	0.100	0.00100	"	0.100		100	80-120			
Surrogate: 4-Bromofluorobenzene	*0.117*		*"*	*0.120*		*97.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.8*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C0615 - * DEFAULT PREP *** **										
Calibration Check (P4C0615-CCV3)				Prepared: 03/06/24 Analyzed: 03/07/24						
Benzene	0.117	0.00100	mg/L	0.100		117	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.222	0.00200	"	0.200		111	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.3*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.3*	*80-120*			
Matrix Spike (P4C0615-MS1)		**Source: 4B27017-01**		Prepared: 03/06/24 Analyzed: 03/07/24						
Benzene	0.103	0.00100	mg/L	0.100	ND	103	80-120			
Toluene	0.0938	0.00100	"	0.100	ND	93.8	80-120			
Ethylbenzene	0.0966	0.00100	"	0.100	ND	96.6	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200	ND	97.8	80-120			
Xylene (o)	0.0907	0.00100	"	0.100	ND	90.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.121*		"	*0.120*		*101*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*97.1*	*80-120*			
Matrix Spike Dup (P4C0615-MSD1)		**Source: 4B27017-01**		Prepared: 03/06/24 Analyzed: 03/07/24						
Benzene	0.124	0.00100	mg/L	0.100	ND	124	80-120	18.4	20	QM-05
Toluene	0.113	0.00100	"	0.100	ND	113	80-120	18.9	20	
Ethylbenzene	0.117	0.00100	"	0.100	ND	117	80-120	19.0	20	
Xylene (p/m)	0.235	0.00200	"	0.200	ND	117	80-120	18.1	20	
Xylene (o)	0.110	0.00100	"	0.100	ND	110	80-120	18.8	20	
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.1*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.8*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Notes and Definitions

ROI	Received on Ice
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
pH1	The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 3/18/2024

Brent Barron, Laboratory Director/Technical Director

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

L: _____ CH: _____ W: _____

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701
Phone: 432-686-7235

Project Manager: David Adkins
Company Name: Talon LPE
Company Address: 408 Texas St.
City/State/Zip: Artesia, NM 88210
Telephone No: 575-441-4835
Fax No:
Sampler Signature: Bartlett Medley

Project Name: Lovington Deep (Lov Deep)
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10312
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only) **ORDER #:** 4C05008

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: TX 1005	TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	TOTAL:	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
1	MW-20			3-4-24	10:11		3	3		3						GW			X				X
2	MW-19			3-4-24	10:38		3	3		3						GW			X				X
3	MW-18			3-4-24	11:23		3	3		3						GW			X				X
4	MW-4			3-4-24	12:08		3	3		3						GW			X				X
5	MW-11			3-4-24	1:20		3	3		3						GW			X				X
6	MW-12			3-4-24	2:00		3	3		3						GW			X				X
7	MW-9			3-4-24	12:45		3	3		3						GW			X				X
8	MW-5			3-4-24	12:46		3	3		3						GW			X				X
9	MW-8			3-4-24	12:05		3	3		3						GW			X				X
10	MW-16			3-4-24	1:30		3	3		3						GW			X				X

Special Instructions:
Email Analyticals to: CJBryant@paalp.com, Maochoa@paalp.com, and KHudgens@paalp.com

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	3/5/24	0830			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
			[signature]	3/5/24	0830

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: 5.7 °C Thermometer: L3
Adjusted: 5.9 °C Factor: NCF

PBEL_COC_2021_1 Revision #: 2021_1 Effective Date: 9-21-21 Page __ of __

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

L: _____ CH: _____ W: _____

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701
Phone: 432-686-7235

Project Manager: David Adkins
Company Name: Talon LPE
Company Address: 408 Texas St.
City/State/Zip: Artesia, NM 88210
Telephone No: 575-441-4835
Fax No:
Sampler Signature: Bartlett Medley

Project Name: Lovington Deep (Lov Deep)
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10312
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only)
ORDER #: 4C05008

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH: TX 1005 TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
11	MW-15			3-4-24	2:17		3	3		3						GW			X		X
12	MW-3			3-4-24	2:46		3	3		3						GW			X		X
13	MW-1			3-4-24	3:14		3	3		3						GW			X		X

TCLP:
TOTAL:

Special Instructions: Email Analyticals to: CJBryant@paalp.com, Maochoa@paalp.com, and KHudgens@paalp.com

Relinquished by:	Date	Time	Received by:	Date	Time
	3/5/24	0830			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	3/5/24	0830

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: 5.9 °C Thermometer: L3
Adjusted: 5.9 °C Factor: NCF

PBEL_COC_2021_1 Revision #: 2021_1 Effective Date: 9-21-21 Page __ of __

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: Lovington Deep

Project Number: Plains All American Pipeline

Location: Lea County, NM

Lab Order Number: 4F05017

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 06/19/24

Talon LPE	Project:	Lovington Deep
2901 S. State Hwy 349	Project Number:	Plains All American Pipeline
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-20	4F05017-01	Water	06/04/24 08:22	06-05-2024 16:17
MW-19	4F05017-02	Water	06/04/24 08:42	06-05-2024 16:17
MW-18	4F05017-03	Water	06/03/24 10:27	06-05-2024 16:17
MW-4	4F05017-04	Water	06/04/24 12:34	06-05-2024 16:17
MW-11	4F05017-05	Water	06/04/24 10:29	06-05-2024 16:17
MW-12	4F05017-06	Water	06/04/24 12:58	06-05-2024 16:17
MW-9	4F05017-07	Water	06/04/24 09:23	06-05-2024 16:17
MW-5	4F05017-08	Water	06/04/24 11:25	06-05-2024 16:17
MW-8	4F05017-09	Water	06/04/24 09:54	06-05-2024 16:17
MW-16	4F05017-10	Water	06/03/24 12:18	06-05-2024 16:17
MW-15	4F05017-11	Water	06/03/24 11:42	06-05-2024 16:17
MW-3	4F05017-12	Water	06/04/24 12:00	06-05-2024 16:17
MW-1	4F05017-13	Water	06/04/24 10:59	06-05-2024 16:17

Talon LPE	Project:	Lovington Deep
2901 S. State Hwy 349	Project Number:	Plains All American Pipeline
Midland TX, 79706	Project Manager:	David Adkins

MW-20

4F05017-01 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 16:30	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 16:30	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 16:30	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 16:30	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 16:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 16:30*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.2 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 16:30*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 16:30	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 16:30	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-19

4F05017-02 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 16:52	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 16:52	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 16:52	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 16:52	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 16:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 16:52*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.6 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 16:52*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 16:52	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 16:52	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-18

4F05017-03 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 17:15	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 17:15	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 17:15	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 17:15	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 17:15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 17:15*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.8 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 17:15*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 17:15	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 17:15	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-4

4F05017-04 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 17:37	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 17:37	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 17:37	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 17:37	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 17:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 17:37*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.1 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 17:37*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 17:37	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 17:37	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-11

4F05017-05 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 18:00	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 18:00	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 18:00	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 18:00	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 18:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 18:00*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.2 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 18:00*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 18:00	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 18:00	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-12

4F05017-06 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 18:22	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 18:22	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 18:22	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 18:22	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 18:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 18:22*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.0 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 18:22*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 18:22	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 18:22	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-9

4F05017-07 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 18:45	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 18:45	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 18:45	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 18:45	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 18:45	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 18:45*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.7 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 18:45*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 18:45	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 18:45	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-5

4F05017-08 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 19:07	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 19:07	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 19:07	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 19:07	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 19:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 19:07*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.7 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 19:07*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 19:07	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 19:07	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-8

4F05017-09 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 19:30	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 19:30	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 19:30	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 19:30	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 19:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 19:30*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.1 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 19:30*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 19:30	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 19:30	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-16

4F05017-10 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 19:52	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 19:52	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 19:52	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 19:52	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 19:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 19:52*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.0 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 19:52*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 19:52	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 19:52	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-15

4F05017-11 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 20:59	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 20:59	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 20:59	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 20:59	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 20:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.5 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 20:59*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.6 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 20:59*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 20:59	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 20:59	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-3

4F05017-12 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 21:21	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 21:21	EPA 8021B	
Ethylbenzene	**0.00860**	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 21:21	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 21:21	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 21:21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 21:21*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.9 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 21:21*	*EPA 8021B*	
Total BTEX	**0.00860**	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 21:21	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 21:21	EPA 8021B	

Talon LPE	Project:	Lovington Deep
2901 S. State Hwy 349	Project Number:	Plains All American Pipeline
Midland TX, 79706	Project Manager:	David Adkins

MW-1

4F05017-13 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 21:44	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 21:44	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 21:44	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 21:44	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F0606	06/06/24 11:56	06/06/24 21:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.4 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 21:44*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.1 %*	*80-120*		*P4F0606*	*06/06/24 11:56*	*06/06/24 21:44*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 21:44	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/06/24 11:56	06/06/24 21:44	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4F0606 - * DEFAULT PREP *** **										
Blank (P4F0606-BLK1)				Prepared & Analyzed: 06/06/24						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.124*		"	*0.120*		*104*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*93.8*	*80-120*			
LCS (P4F0606-BS1)				Prepared & Analyzed: 06/06/24						
Benzene	0.116	0.00100	mg/L	0.100		116	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.237	0.00200	"	0.200		118	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	*0.124*		"	*0.120*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		"	*0.120*		*99.0*	*80-120*			
LCS Dup (P4F0606-BSD1)				Prepared & Analyzed: 06/06/24						
Benzene	0.111	0.00100	mg/L	0.100		111	80-120	3.99	20	
Toluene	0.106	0.00100	"	0.100		106	80-120	5.04	20	
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120	2.33	20	
Xylene (p/m)	0.230	0.00200	"	0.200		115	80-120	2.82	20	
Xylene (o)	0.102	0.00100	"	0.100		102	80-120	5.23	20	
Surrogate: 4-Bromofluorobenzene	*0.127*		"	*0.120*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.124*		"	*0.120*		*103*	*80-120*			
Calibration Blank (P4F0606-CCB1)				Prepared & Analyzed: 06/06/24						
Benzene	0.160		ug/l							
Toluene	0.430		"							
Ethylbenzene	0.410		"							
Xylene (p/m)	1.51		"							
Xylene (o)	0.410		"							
Surrogate: 4-Bromofluorobenzene	*0.126*		"	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.6*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4F0606 - * DEFAULT PREP *** **										
Calibration Blank (P4F0606-CCB2)				Prepared & Analyzed: 06/06/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.310		"							
Xylene (p/m)	0.880		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.119*		*"*	*0.120*		*99.1*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*97.1*	*80-120*			
Calibration Check (P4F0606-CCV1)				Prepared & Analyzed: 06/06/24						
Benzene	0.115	0.00100	mg/L	0.100		115	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		118	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.9*	*80-120*			
Calibration Check (P4F0606-CCV2)				Prepared & Analyzed: 06/06/24						
Benzene	0.116	0.00100	mg/L	0.100		116	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.234	0.00200	"	0.200		117	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.124*		*"*	*0.120*		*103*	*80-120*			
Calibration Check (P4F0606-CCV3)				Prepared: 06/06/24 Analyzed: 06/07/24						
Benzene	0.120	0.00100	mg/L	0.100		120	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.237	0.00200	"	0.200		118	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 4-Bromofluorobenzene	*0.118*		*"*	*0.120*		*98.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.0*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4F0606 - * DEFAULT PREP *** **										
Matrix Spike (P4F0606-MS1)	**Source: 4F05017-01**			Prepared: 06/06/24 Analyzed: 06/07/24						
Benzene	0.124	0.00100	mg/L	0.100	ND	124	80-120			QM-05
Toluene	0.116	0.00100	"	0.100	ND	116	80-120			
Ethylbenzene	0.124	0.00100	"	0.100	ND	124	80-120			QM-05
Xylene (p/m)	0.239	0.00200	"	0.200	0.00105	119	80-120			
Xylene (o)	0.110	0.00100	"	0.100	ND	110	80-120			
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.120*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.127*		*"*	*0.120*		*106*	*80-120*			
Matrix Spike Dup (P4F0606-MSD1)	**Source: 4F05017-01**			Prepared: 06/06/24 Analyzed: 06/07/24						
Benzene	0.122	0.00100	mg/L	0.100	ND	122	80-120	2.04	20	QM-05
Toluene	0.113	0.00100	"	0.100	ND	113	80-120	2.20	20	
Ethylbenzene	0.122	0.00100	"	0.100	ND	122	80-120	2.17	20	QM-05
Xylene (p/m)	0.232	0.00200	"	0.200	0.00105	116	80-120	2.63	20	
Xylene (o)	0.106	0.00100	"	0.100	ND	106	80-120	3.20	20	
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Notes and Definitions

ROI	Received on Ice
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
pH1	The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.
NPBEL C(	Chain of Custody was not generated at PBELAB
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 6/19/2024

Brent Barron, Laboratory Director/Technical Director

Talon LPE	Project:	Lovington Deep
2901 S. State Hwy 349	Project Number:	Plains All American Pipeline
Midland TX, 79706	Project Manager:	David Adkins

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

L: _____ CH: _____ W: _____

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701
Phone: 432-686-7235

Project Manager: David Adkins
Company Name: Talon LPE
Company Address: 408 Texas St.
City/State/Zip: Artesia, NM 88210
Telephone No: 575-441-4835
Fax No:
Sampler Signature: Bartlett Medley

Project Name: Lovington Deep (Lov Deep)
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10312
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only)
ORDER #: 4F05017

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Othe	Analyze For: TCLP: TPH: TX 1005 TX 1006	Anions (Cl, SO4, Alkalinity)	TOTAL: BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
1	MW-20			6-4-24	8:22		3	3		3						GW			X		X
2	MW-19			6-4-24	8:42		3	3		3						GW			X		X
3	MW-18			6-3-24	10:27		3	3		3						GW			X		X
4	MW-4			6-4-24	12:34		3	3		3						GW			X		X
5	MW-11			6-4-24	10:29		3	3		3						GW			X		X
6	MW-12			6-4-24	12:58		3	3		3						GW			X		X
7	MW-9			6-4-24	9:23		3	3		3						GW			X		X
8	MW-5			6-4-24	11:25		3	3		3						GW			X		X
9	MW-8			6-4-24	9:54		3	3		3						GW			X		X
10	MW-16			6-3-24	12:18		3	3		3						GW			X		X

Special Instructions:
Email Analyticals to: CJBryant@paalp.com, Maochoa@paalp.com, and KHudgens@paalp.com

Relinquished by:	Date	Time	Received by:	Date	Time
Bartlett Medley	6-5-24	10:42	Kayla Saylor	6-5-24	1642
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
Kayla Saylor	6-5-24	1617	Teresa Bledsoe	6/5/24	16:17

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt:
Received: 4.3 °C Thermometor: NCF
Adjusted: °C Factor: 1.3

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

L: _____ CH: _____ W: _____

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701
Phone: 432-686-7235

Project Manager: David Adkins
Company Name: Talon LPE
Company Address: 408 Texas St.
City/State/Zip: Artesia, NM 88210
Telephone No: 575-441-4835 **Fax No:**
Sampler Signature: Bartlett Medley
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

Project Name: Lovington Deep (Lov Deep)
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10312
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 4F05017

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH: TX 1005 TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
11	MW-15			6-3-24	11:42		3	3		3						GW			X		X
12	MW-3			6-4-24	12:00		3	3		3						GW			X		X
13	MW-1			6-4-24	10:59		3	3		3						GW			X		X

Special Instructions: Email Analyticals to: CJBryant@paalp.com, Maochoa@paalp.com, and KHudgens@paalp.com

Relinquished by:	Date	Time	Received by:	Date	Time
Bartlett Medley	6-5-24	10:42	Kayla Taylor	6-5-24	1042
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Kayla Taylor	Date 6-5-24	Time 1617	Received by PBEL: Tina Bledsoe	Date 6/5/24	Time 16:17

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N
by Courier? UPS DHL FedEx Lone Star		

Temperature Upon Receipt:
Received: 4.3 °C Thermometer: NCF 03
Adjusted: °C Factor:

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: Lovington Deep

Project Number: Plains All American Pipeline

Location: Lea County, NM

Lab Order Number: 4I06004

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 09/13/24

Talon LPE	Project:	Lovington Deep
2901 S. State Hwy 349	Project Number:	Plains All American Pipeline
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-20	4I06004-01	Water	09/05/24 07:39	09-06-2024 08:41
MW-19	4I06004-02	Water	09/05/24 08:10	09-06-2024 08:41
MW-18	4I06004-03	Water	09/05/24 09:02	09-06-2024 08:41
MW-4	4I06004-04	Water	09/05/24 09:54	09-06-2024 08:41
MW-11	4I06004-05	Water	09/05/24 10:00	09-06-2024 08:41
MW-12	4I06004-06	Water	09/05/24 01:11	09-06-2024 08:41
MW-9	4I06004-07	Water	09/05/24 10:49	09-06-2024 08:41
MW-5	4I06004-08	Water	09/05/24 12:22	09-06-2024 08:41
MW-8	4I06004-09	Water	09/05/24 07:39	09-06-2024 08:41
MW-16	4I06004-10	Water	09/05/24 11:22	09-06-2024 08:41
MW-15	4I06004-11	Water	09/05/24 10:41	09-06-2024 08:41
MW-3	4I06004-12	Water	09/05/24 12:50	09-06-2024 08:41
MW-1	4I06004-13	Water	09/05/24 11:52	09-06-2024 08:41

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-20

4I06004-01 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	**0.00839**	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/09/24 23:37	EPA 8021B	
Toluene	**0.00321**	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/09/24 23:37	EPA 8021B	
Ethylbenzene	**0.148**	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/09/24 23:37	EPA 8021B	
Xylene (p/m)	**0.162**	0.00200	mg/L	1	P4I0909	09/09/24 13:54	09/09/24 23:37	EPA 8021B	
Xylene (o)	**0.00587**	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/09/24 23:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*116 %*	*80-120*		*P4I0909*	*09/09/24 13:54*	*09/09/24 23:37*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*88.3 %*	*80-120*		*P4I0909*	*09/09/24 13:54*	*09/09/24 23:37*	*EPA 8021B*	
Total BTEX	**0.328**	0.00100	mg/L	1	[CALC]	09/09/24 13:54	09/09/24 23:37	EPA 8021B	
Xylenes (total)	**0.168**	0.00100	mg/L	1	[CALC]	09/09/24 13:54	09/09/24 23:37	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-19

4I06004-02 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	**0.00349**	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/09/24 23:58	EPA 8021B	
Toluene	**0.00112**	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/09/24 23:58	EPA 8021B	
Ethylbenzene	**0.0433**	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/09/24 23:58	EPA 8021B	
Xylene (p/m)	**0.0440**	0.00200	mg/L	1	P4I0909	09/09/24 13:54	09/09/24 23:58	EPA 8021B	
Xylene (o)	**0.00200**	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/09/24 23:58	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*124 %*	*80-120*		*P4I0909*	*09/09/24 13:54*	*09/09/24 23:58*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*90.6 %*	*80-120*		*P4I0909*	*09/09/24 13:54*	*09/09/24 23:58*	*EPA 8021B*	
Total BTEX	**0.0939**	0.00100	mg/L	1	[CALC]	09/09/24 13:54	09/09/24 23:58	EPA 8021B	
Xylenes (total)	**0.0460**	0.00100	mg/L	1	[CALC]	09/09/24 13:54	09/09/24 23:58	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-18

4I06004-03 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	**0.00186**	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/10/24 00:19	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/10/24 00:19	EPA 8021B	
Ethylbenzene	**0.0212**	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/10/24 00:19	EPA 8021B	
Xylene (p/m)	**0.0202**	0.00200	mg/L	1	P4I0909	09/09/24 13:54	09/10/24 00:19	EPA 8021B	
Xylene (o)	**0.00119**	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/10/24 00:19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*130 %*	*80-120*		*P4I0909*	*09/09/24 13:54*	*09/10/24 00:19*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*91.3 %*	*80-120*		*P4I0909*	*09/09/24 13:54*	*09/10/24 00:19*	*EPA 8021B*	
Total BTEX	**0.0444**	0.00100	mg/L	1	[CALC]	09/09/24 13:54	09/10/24 00:19	EPA 8021B	
Xylenes (total)	**0.0213**	0.00100	mg/L	1	[CALC]	09/09/24 13:54	09/10/24 00:19	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-4

4I06004-04 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/10/24 00:41	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/10/24 00:41	EPA 8021B	
Ethylbenzene	**0.0103**	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/10/24 00:41	EPA 8021B	
Xylene (p/m)	**0.0101**	0.00200	mg/L	1	P4I0909	09/09/24 13:54	09/10/24 00:41	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/10/24 00:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*125 %*	*80-120*		*P4I0909*	*09/09/24 13:54*	*09/10/24 00:41*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*93.1 %*	*80-120*		*P4I0909*	*09/09/24 13:54*	*09/10/24 00:41*	*EPA 8021B*	
Total BTEX	**0.0204**	0.00100	mg/L	1	[CALC]	09/09/24 13:54	09/10/24 00:41	EPA 8021B	
Xylenes (total)	**0.0101**	0.00100	mg/L	1	[CALC]	09/09/24 13:54	09/10/24 00:41	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-11

4I06004-05 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/10/24 01:02	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/10/24 01:02	EPA 8021B	
Ethylbenzene	**0.00511**	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/10/24 01:02	EPA 8021B	
Xylene (p/m)	**0.00507**	0.00200	mg/L	1	P4I0909	09/09/24 13:54	09/10/24 01:02	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0909	09/09/24 13:54	09/10/24 01:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*126 %*	*80-120*		*P4I0909*	*09/09/24 13:54*	*09/10/24 01:02*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*93.3 %*	*80-120*		*P4I0909*	*09/09/24 13:54*	*09/10/24 01:02*	*EPA 8021B*	
Total BTEX	**0.0102**	0.00100	mg/L	1	[CALC]	09/09/24 13:54	09/10/24 01:02	EPA 8021B	
Xylenes (total)	**0.00507**	0.00100	mg/L	1	[CALC]	09/09/24 13:54	09/10/24 01:02	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-12

4I06004-06 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	**0.00100**	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 03:52	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 03:52	EPA 8021B	
Ethylbenzene	**0.00147**	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 03:52	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 03:52	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 03:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*128 %*	*80-120*		*P4I0910*	*09/09/24 13:57*	*09/10/24 03:52*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*96.7 %*	*80-120*		*P4I0910*	*09/09/24 13:57*	*09/10/24 03:52*	*EPA 8021B*	
Total BTEX	**0.00247**	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 03:52	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 03:52	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-9

4I06004-07 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 04:13	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 04:13	EPA 8021B	
Ethylbenzene	**0.00119**	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 04:13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 04:13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 04:13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*129 %*	*80-120*		*P4I0910*	*09/09/24 13:57*	*09/10/24 04:13*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*97.8 %*	*80-120*		*P4I0910*	*09/09/24 13:57*	*09/10/24 04:13*	*EPA 8021B*	
Total BTEX	**0.00119**	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 04:13	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 04:13	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-5

4I06004-08 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 04:35	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 04:35	EPA 8021B	
Ethylbenzene	**0.00167**	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 04:35	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 04:35	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 04:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*129 %*	*80-120*		*P4I0910*	*09/09/24 13:57*	*09/10/24 04:35*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*97.4 %*	*80-120*		*P4I0910*	*09/09/24 13:57*	*09/10/24 04:35*	*EPA 8021B*	
Total BTEX	**0.00167**	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 04:35	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 04:35	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-8

4I06004-09 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 04:56	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 04:56	EPA 8021B	
Ethylbenzene	**0.00108**	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 04:56	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 04:56	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 04:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*130 %*	*80-120*		*P4I0910*	*09/09/24 13:57*	*09/10/24 04:56*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*98.3 %*	*80-120*		*P4I0910*	*09/09/24 13:57*	*09/10/24 04:56*	*EPA 8021B*	
Total BTEX	**0.00108**	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 04:56	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 04:56	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-16

4I06004-10 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 05:18	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 05:18	EPA 8021B	
Ethylbenzene	**0.00145**	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 05:18	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 05:18	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 05:18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*127 %*	*80-120*		*P4I0910*	*09/09/24 13:57*	*09/10/24 05:18*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*98.0 %*	*80-120*		*P4I0910*	*09/09/24 13:57*	*09/10/24 05:18*	*EPA 8021B*	
Total BTEX	**0.00145**	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 05:18	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 05:18	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-15

4I06004-11 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 05:39	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 05:39	EPA 8021B	
Ethylbenzene	**0.00203**	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 05:39	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 05:39	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 05:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*126 %*	*80-120*		*P4I0910*	*09/09/24 13:57*	*09/10/24 05:39*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*97.9 %*	*80-120*		*P4I0910*	*09/09/24 13:57*	*09/10/24 05:39*	*EPA 8021B*	
Total BTEX	**0.00203**	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 05:39	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 05:39	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-3

4I06004-12 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 06:00	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 06:00	EPA 8021B	
Ethylbenzene	**0.0150**	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 06:00	EPA 8021B	
Xylene (p/m)	**0.00206**	0.00200	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 06:00	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 06:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*133 %*	*80-120*		*P4I0910*	*09/09/24 13:57*	*09/10/24 06:00*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*99.1 %*	*80-120*		*P4I0910*	*09/09/24 13:57*	*09/10/24 06:00*	*EPA 8021B*	
Total BTEX	**0.0171**	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 06:00	EPA 8021B	
Xylenes (total)	**0.00206**	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 06:00	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-1

4I06004-13 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 06:21	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 06:21	EPA 8021B	
Ethylbenzene	**0.00107**	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 06:21	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 06:21	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I0910	09/09/24 13:57	09/10/24 06:21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*126 %*	*80-120*		*P4I0910*	*09/09/24 13:57*	*09/10/24 06:21*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*98.9 %*	*80-120*		*P4I0910*	*09/09/24 13:57*	*09/10/24 06:21*	*EPA 8021B*	
Total BTEX	**0.00107**	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 06:21	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/09/24 13:57	09/10/24 06:21	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4I0909 - * DEFAULT PREP *** **										
Blank (P4I0909-BLK1)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.154*		"	*0.120*		*128*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*100*	*80-120*			
LCS (P4I0909-BS1)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.106	0.00100	mg/L	0.100		106	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.228	0.00200	"	0.200		114	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 4-Bromofluorobenzene	*0.140*		"	*0.120*		*117*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.125*		"	*0.120*		*104*	*80-120*			
LCS Dup (P4I0909-BSD1)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.101	0.00100	mg/L	0.100		101	80-120	4.61	20	
Toluene	0.101	0.00100	"	0.100		101	80-120	4.77	20	
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120	3.67	20	
Xylene (p/m)	0.219	0.00200	"	0.200		110	80-120	3.73	20	
Xylene (o)	0.106	0.00100	"	0.100		106	80-120	5.33	20	
Surrogate: 4-Bromofluorobenzene	*0.142*		"	*0.120*		*118*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.127*		"	*0.120*		*106*	*80-120*			
Calibration Blank (P4I0909-CCB1)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.0700		ug/l							
Toluene	0.310		"							
Ethylbenzene	0.630		"							
Xylene (p/m)	1.28		"							
Xylene (o)	0.760		"							
Surrogate: 4-Bromofluorobenzene	*0.146*		"	*0.120*		*122*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*99.9*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4I0909 - * DEFAULT PREP *** **										
Calibration Blank (P4I0909-CCB2)				Prepared & Analyzed: 09/09/24						
Benzene	0.400		ug/l							
Toluene	0.330		"							
Ethylbenzene	0.590		"							
Xylene (p/m)	1.27		"							
Xylene (o)	0.670		"							
Surrogate: 4-Bromofluorobenzene	*0.160*		*"*	*0.120*		*133*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.108*		*"*	*0.120*		*89.7*	*80-120*			
Calibration Check (P4I0909-CCV1)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.112	0.00100	mg/L	0.100		112	80-120			
Toluene	0.114	0.00100	"	0.100		114	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		118	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 4-Bromofluorobenzene	*0.138*		*"*	*0.120*		*115*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Calibration Check (P4I0909-CCV2)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.107	0.00100	mg/L	0.100		107	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.230	0.00200	"	0.200		115	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 4-Bromofluorobenzene	*0.148*		*"*	*0.120*		*124*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.127*		*"*	*0.120*		*106*	*80-120*			
Calibration Check (P4I0909-CCV3)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.120	0.00100	mg/L	0.100		120	80-120			
Toluene	0.115	0.00100	"	0.100		115	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.229	0.00200	"	0.200		115	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 4-Bromofluorobenzene	*0.146*		*"*	*0.120*		*122*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.125*		*"*	*0.120*		*104*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4I0909 - * DEFAULT PREP *** **										
Matrix Spike (P4I0909-MS1)	**Source: 4I05026-01**			Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.323	0.00100	mg/L	0.100	0.668	NR	80-120			QM-05
Toluene	0.180	0.00100	"	0.100	0.437	NR	80-120			QM-05
Ethylbenzene	0.0784	0.00100	"	0.100	0.0396	38.8	80-120			QM-05
Xylene (p/m)	0.161	0.00200	"	0.200	0.111	25.0	80-120			QM-05
Xylene (o)	0.0783	0.00100	"	0.100	0.0455	32.8	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.100*		*"*	*0.120*		*83.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.144*		*"*	*0.120*		*120*	*80-120*			
Matrix Spike Dup (P4I0909-MSD1)	**Source: 4I05026-01**			Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.345	0.00100	mg/L	0.100	0.668	NR	80-120	NR	20	QM-05
Toluene	0.186	0.00100	"	0.100	0.437	NR	80-120	NR	20	QM-05
Ethylbenzene	0.0650	0.00100	"	0.100	0.0396	25.5	80-120	41.5	20	QM-05
Xylene (p/m)	0.137	0.00200	"	0.200	0.111	13.2	80-120	61.8	20	QM-05
Xylene (o)	0.0665	0.00100	"	0.100	0.0455	21.0	80-120	43.9	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.124*		*"*	*0.120*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.6*	*80-120*			
Batch P4I0910 - * DEFAULT PREP *** **										
Blank (P4I0910-BLK1)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	0.00195	0.00100	"							B-13
Xylene (p/m)	0.00270	0.00200	"							B-13
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.157*		*"*	*0.120*		*131*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.8*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4I0910 - * DEFAULT PREP *** **										
LCS (P4I0910-BS1)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.103	0.00100	mg/L	0.100		103	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.223	0.00200	"	0.200		112	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	*0.145*		"	*0.120*		*120*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.121*		"	*0.120*		*100*	*80-120*			
LCS Dup (P4I0910-BSD1)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.108	0.00100	mg/L	0.100		108	80-120	3.99	20	
Toluene	0.107	0.00100	"	0.100		107	80-120	3.27	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120	3.72	20	
Xylene (p/m)	0.233	0.00200	"	0.200		116	80-120	4.14	20	
Xylene (o)	0.116	0.00100	"	0.100		116	80-120	7.57	20	
Surrogate: 4-Bromofluorobenzene	*0.150*		"	*0.120*		*125*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.122*		"	*0.120*		*102*	*80-120*			
Calibration Blank (P4I0910-CCB1)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.390		ug/l							
Toluene	0.530		"							
Ethylbenzene	2.11		"							B-13
Xylene (p/m)	3.00		"							B-13
Xylene (o)	0.960		"							
Surrogate: 4-Bromofluorobenzene	*0.158*		"	*0.120*		*132*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*95.2*	*80-120*			
Calibration Blank (P4I0910-CCB2)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.150		ug/l							
Toluene	0.280		"							
Ethylbenzene	1.32		"							B-13
Xylene (p/m)	1.76		"							
Xylene (o)	0.640		"							
Surrogate: 4-Bromofluorobenzene	*0.153*		"	*0.120*		*127*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*100*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4I0910 - * DEFAULT PREP *** **										
Calibration Check (P4I0910-CCV1)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.120	0.00100	mg/L	0.100		120	80-120			
Toluene	0.115	0.00100	"	0.100		115	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.229	0.00200	"	0.200		115	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 4-Bromofluorobenzene	*0.146*		*"*	*0.120*		*122*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.125*		*"*	*0.120*		*104*	*80-120*			
Calibration Check (P4I0910-CCV2)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.106	0.00100	mg/L	0.100		106	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.213	0.00200	"	0.200		107	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	*0.136*		*"*	*0.120*		*113*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.124*		*"*	*0.120*		*104*	*80-120*			
Calibration Check (P4I0910-CCV3)				Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.115	0.00100	mg/L	0.100		115	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.220	0.00200	"	0.200		110	80-120			
Xylene (o)	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 4-Bromofluorobenzene	*0.133*		*"*	*0.120*		*111*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.132*		*"*	*0.120*		*110*	*80-120*			
Matrix Spike (P4I0910-MS1)		**Source: 4I06006-01**		Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.0846	0.00100	mg/L	0.100	0.00131	83.3	80-120			
Toluene	0.0848	0.00100	"	0.100	0.000570	84.3	80-120			
Ethylbenzene	0.0881	0.00100	"	0.100	0.00249	85.6	80-120			
Xylene (p/m)	0.173	0.00200	"	0.200	0.00168	85.6	80-120			
Xylene (o)	0.0837	0.00100	"	0.100	ND	83.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.128*		*"*	*0.120*		*107*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.123*		*"*	*0.120*		*102*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4I0910 - * DEFAULT PREP *** **										
Matrix Spike Dup (P4I0910-MSD1)	**Source: 4I06006-01**			Prepared: 09/09/24 Analyzed: 09/10/24						
Benzene	0.125	0.00100	mg/L	0.100	0.00131	123	80-120	38.7	20	R3
Toluene	0.113	0.00100	"	0.100	0.000570	113	80-120	28.8	20	R3
Ethylbenzene	0.117	0.00100	"	0.100	0.00249	115	80-120	29.2	20	R3
Xylene (p/m)	0.239	0.00200	"	0.200	0.00168	119	80-120	32.5	20	R3
Xylene (o)	0.122	0.00100	"	0.100	ND	122	80-120	37.6	20	R3
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.2*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
BULK	Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range
B-13	A common laboratory contaminant was above the RL in the blank
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 9/13/2024

Brent Barron, Laboratory Director/Technical Director

Talon LPE	Project:	Lovington Deep
2901 S. State Hwy 349	Project Number:	Plains All American Pipeline
Midland TX, 79706	Project Manager:	David Adkins

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

L: _____ CH: _____ W: _____

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701
Phone: 432-686-7235

Project Manager: David Adkins
Company Name: Talon LPE
Company Address: 408 Texas St.
City/State/Zip: Artesia, NM 88210
Telephone No: 575-441-4835 **Fax No:**
Sampler Signature: Bartlett Madley

Project Name: Lovington Deep (Lov Deep)
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10312
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only)
ORDER #: 4I060054

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge / GW = Groundwater S=Soil/Solid / NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: TX 1005 TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
01	MW-20			9-5-24	7:39		3	3		3						GW			X		X
02	MW-19			9-5-24	8:10		3	3		3						GW			X		X
03	MW-18			9-5-24	9:02		3	3		3						GW			X		X
04	MW-4			9-5-24	9:54		3	3		3						GW			X		X
05	MW-11			8-30-24	10:00		3	3		3						GW			X		X
06	MW-12			9-5-24	1:11		3	3		3						GW			X		X
07	MW-9			8-30-24	10:49		3	3		3						GW			X		X
08	MW-5			9-5-24	12:22		3	3		3						GW			X		X
09	MW-8			8-30-24	11:08		3	3		3						GW			X		X
10	MW-16			9-5-24	11:22		3	3		3						GW			X		X

Special Instructions: Email Analyticals to: CJBryant@paalp.com, Maochoa@paalp.com, and KHudgens@paalp.com

Relinquished by:	Date	Time	Received by:	Date	Time
Bartlett Madley	9-5-24	1:33		9-5-24	1:33
	9-6-24	8:41			
			Received by PBEL:	9/6/24	0841

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: L3
Received: 5.8 °C Thermometer: NCF
Adjusted: 5.8 °C Factor:

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

L: ______ CH: ______ W: ______

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701
Phone: 432-686-7235

Project Manager: David Adkins
Company Name: Talon LPE
Company Address: 408 Texas St.
City/State/Zip: Artesia, NM 88210
Telephone No: 575-441-4835
Fax No:
Sampler Signature: Bartlett Medley
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

Project Name: Lovington Deep (Lov Deep)
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10312
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 4I10004

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix (DW=Drinking Water SL=Sludge; GW = Groundwater S=Soil/Solid; NP=Non-Potable Specify Other)	TPH: TX 1005 TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
11	MW-15			9-5-24	10:41		3	3		3						GW			X		X
12	MW-3			9-5-24	12:50		3	3		3						GW			X		X
13	MW-1			9-5-24	11:52		3	3		3						GW			X		X

Preservation & # of Containers: Ice, HNO_3, HCl, H_2SO_4, NaOH, $Na_2S_2O_3$, None, Other (Specify)

Analyze For: TCLP: / TOTAL:

Special Instructions:
Email Analyticals to: CJBryant@paalp.com, Maochoa@paalp.com, and KHudgens@paalp.com

Relinquished by:	Date	Time	Received by:	Date	Time
Bartlett Medley	9-5-24	1:33	[signature]	9-5-24	1:33
[signature]	9-6-24	8:41			
			Received by PBEL: Brent Barron		

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt:
Received: 5.8 °C Thermometer: L3
Adjusted: NCF °C Factor: NCF

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: Lovington Deep

Project Number: SRS #2002-10312

Location: Lea County, NM

Lab Order Number: 4L05016

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 12/06/24

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-20	4L05016-01	Water	12/02/24 13:35	12-05-2024 12:12
MW-19	4L05016-02	Water	12/02/24 14:00	12-05-2024 12:12
MW-18	4L05016-03	Water	12/02/24 14:38	12-05-2024 12:12
MW-4	4L05016-04	Water	12/02/24 16:28	12-05-2024 12:12
MW-11	4L05016-05	Water	12/03/24 07:29	12-05-2024 12:12
MW-12	4L05016-06	Water	12/03/24 07:49	12-05-2024 12:12
MW-9	4L05016-07	Water	12/03/24 08:25	12-05-2024 12:12
MW-5	4L05016-08	Water	12/03/24 09:23	12-05-2024 12:12
MW-8	4L05016-09	Water	12/03/24 09:54	12-05-2024 12:12
MW-16	4L05016-10	Water	12/02/24 15:11	12-05-2024 12:12
MW-15	4L05016-11	Water	12/02/24 15:40	12-05-2024 12:12
MW-1	4L05016-13	Water	12/03/24 10:25	12-05-2024 12:12

Client was notified on 12/5/24 that sample MW-3 4L05016-12 was received frozen and broken. The sample was removed for analysis. All corresponding documentation is attached below.

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

MW-20

4L05016-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 18:24	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 18:24	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 18:24	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 18:24	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 18:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*80.3 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 18:24*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 18:24*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 18:24	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 18:24	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

MW-19

4L05016-02 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 18:46	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 18:46	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 18:46	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 18:46	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 18:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*84.8 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 18:46*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*100 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 18:46*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 18:46	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 18:46	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

MW-18

4L05016-03 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 19:08	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 19:08	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 19:08	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 19:08	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 19:08	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*82.6 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 19:08*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.4 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 19:08*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 19:08	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 19:08	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

MW-4

4L05016-04 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 16:30	12/05/24 19:30	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L0514	12/05/24 16:30	12/05/24 19:30	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 16:30	12/05/24 19:30	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L0514	12/05/24 16:30	12/05/24 19:30	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L0514	12/05/24 16:30	12/05/24 19:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*81.6 %*	*80-120*		*P4L0514*	*12/05/24 16:30*	*12/05/24 19:30*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*102 %*	*80-120*		*P4L0514*	*12/05/24 16:30*	*12/05/24 19:30*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/05/24 16:30	12/05/24 19:30	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/05/24 16:30	12/05/24 19:30	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

MW-11

4L05016-05 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 19:52	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 19:52	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 19:52	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 19:52	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 19:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*80.3 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 19:52*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*100 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 19:52*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 19:52	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 19:52	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

MW-12

4L05016-06 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 20:14	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 20:14	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 20:14	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 20:14	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 20:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*81.0 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 20:14*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.9 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 20:14*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 20:14	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 20:14	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

MW-9

4L05016-07 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 20:36	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 20:36	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 20:36	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 20:36	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 20:36	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*81.1 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 20:36*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*102 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 20:36*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 20:36	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 20:36	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

MW-5

4L05016-08 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 20:59	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 20:59	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 20:59	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 20:59	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 20:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*81.7 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 20:59*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 20:59*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 20:59	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 20:59	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

MW-8

4L05016-09 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 21:21	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 21:21	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 21:21	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 21:21	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 21:21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*81.3 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 21:21*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 21:21*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 21:21	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 21:21	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

MW-16

4L05016-10 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 21:43	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 21:43	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 21:43	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 21:43	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 21:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*81.0 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 21:43*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*103 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 21:43*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 21:43	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 21:43	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

MW-15

4L05016-11 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:59	12/05/24 22:49	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:59	12/05/24 22:49	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:59	12/05/24 22:49	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L0514	12/05/24 15:59	12/05/24 22:49	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:59	12/05/24 22:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*80.9 %*	*80-120*		*P4L0514*	*12/05/24 15:59*	*12/05/24 22:49*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*100 %*	*80-120*		*P4L0514*	*12/05/24 15:59*	*12/05/24 22:49*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:59	12/05/24 22:49	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:59	12/05/24 22:49	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

MW-1

4L05016-13 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 23:12	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 23:12	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 23:12	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 23:12	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L0514	12/05/24 15:21	12/05/24 23:12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*81.2 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 23:12*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*102 %*	*80-120*		*P4L0514*	*12/05/24 15:21*	*12/05/24 23:12*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 23:12	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/05/24 15:21	12/05/24 23:12	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4L0514 - * DEFAULT PREP *** **										
Blank (P4L0514-BLK1)				Prepared & Analyzed: 12/05/24						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.0982*		*"*	*0.120*		*81.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
LCS (P4L0514-BS1)				Prepared & Analyzed: 12/05/24						
Benzene	0.111	0.00100	mg/L	0.100		111	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			
Xylene (p/m)	0.240	0.00200	"	0.200		120	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	*0.102*		*"*	*0.120*		*84.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.130*		*"*	*0.120*		*108*	*80-120*			
LCS Dup (P4L0514-BSD1)				Prepared & Analyzed: 12/05/24						
Benzene	0.104	0.00100	mg/L	0.100		104	80-120	6.26	20	
Toluene	0.0994	0.00100	"	0.100		99.4	80-120	8.90	20	
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120	9.16	20	
Xylene (p/m)	0.220	0.00200	"	0.200		110	80-120	8.42	20	
Xylene (o)	0.0990	0.00100	"	0.100		99.0	80-120	8.38	20	
Surrogate: 4-Bromofluorobenzene	*0.101*		*"*	*0.120*		*83.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.129*		*"*	*0.120*		*108*	*80-120*			
Calibration Blank (P4L0514-CCB1)				Prepared & Analyzed: 12/05/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.190		"							
Xylene (p/m)	0.350		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.0982*		*"*	*0.120*		*81.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4L0514 - * DEFAULT PREP *** **										
Calibration Blank (P4L0514-CCB2)				Prepared & Analyzed: 12/05/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.200		"							
Xylene (p/m)	0.230		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.0970*		*"*	*0.120*		*80.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
Calibration Check (P4L0514-CCV1)				Prepared & Analyzed: 12/05/24						
Benzene	0.110	0.00100	mg/L	0.100		110	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.225	0.00200	"	0.200		112	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0994*		*"*	*0.120*		*82.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.128*		*"*	*0.120*		*107*	*80-120*			
Calibration Check (P4L0514-CCV2)				Prepared & Analyzed: 12/05/24						
Benzene	0.109	0.00100	mg/L	0.100		109	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.100	0.00100	"	0.100		100	80-120			
Xylene (p/m)	0.222	0.00200	"	0.200		111	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0995*		*"*	*0.120*		*82.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.129*		*"*	*0.120*		*108*	*80-120*			
Calibration Check (P4L0514-CCV3)				Prepared: 12/05/24 Analyzed: 12/06/24						
Benzene	0.108	0.00100	mg/L	0.100		108	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.228	0.00200	"	0.200		114	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0991*		*"*	*0.120*		*82.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.130*		*"*	*0.120*		*108*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4L0514 - * DEFAULT PREP *** **										
Matrix Spike (P4L0514-MS1)		**Source: 4L05016-01**		Prepared & Analyzed: 12/05/24						
Benzene	0.104	0.00100	mg/L	0.100	ND	104	80-120			
Toluene	0.0965	0.00100	"	0.100	ND	96.5	80-120			
Ethylbenzene	0.106	0.00100	"	0.100	ND	106	80-120			
Xylene (p/m)	0.214	0.00200	"	0.200	ND	107	80-120			
Xylene (o)	0.0948	0.00100	"	0.100	ND	94.8	80-120			
Surrogate: 4-Bromofluorobenzene	*0.101*		"	*0.120*		*83.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.131*		"	*0.120*		*109*	*80-120*			
Matrix Spike Dup (P4L0514-MSD1)		**Source: 4L05016-01**		Prepared & Analyzed: 12/05/24						
Benzene	0.112	0.00100	mg/L	0.100	ND	112	80-120	7.78	20	
Toluene	0.106	0.00100	"	0.100	ND	106	80-120	9.13	20	
Ethylbenzene	0.116	0.00100	"	0.100	ND	116	80-120	9.32	20	
Xylene (p/m)	0.234	0.00200	"	0.200	ND	117	80-120	8.76	20	
Xylene (o)	0.103	0.00100	"	0.100	ND	103	80-120	8.76	20	
Surrogate: 4-Bromofluorobenzene	*0.0985*		"	*0.120*		*82.1*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.131*		"	*0.120*		*109*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

Notes and Definitions

ROI	Received on Ice
pH1	The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 12/6/2024

Brent Barron, Laboratory Director/Technical Director

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST L: _____ CH: _____ W: _____

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701
Phone: 432-686-7235

Project Manager: David Adkins
Company Name: Talon LPE
Company Address: 408 Texas St.
City/State/Zip: Artesia, NM 88210
Telephone No: 575-441-4835 **Fax No:**
Sampler Signature: Bartlett Madley

Project Name: Lovington Deep (Lov Deep)
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10312
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only) ORDER #: 4L05016

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: TX 1006	TX 1006 Anions (Cl, SO4, Alkalinity)	TOTAL: BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
1	MW-20			12-2-24	1:35		3	3		3						GW			X		X
2	MW-19			12-2-24	2:00		3	3		3						GW			X		X
3	MW-18			12-2-24	2:38		3	3		3						GW			X		X
4	MW-4			12-2-24	4:28		3	3		3						GW			X		X
5	MW-11			12-3-24	7:29		3	3		3						GW			X		X
6	MW-12			12-3-24	7:49		3	3		3						GW			X		X
7	MW-9			12-3-24	8:25		3	3		3						GW			X		X
8	MW-5			12-3-24	9:23		3	3		3						GW			X		X
9	MW-8			12-3-24	9:54		3	3		3						GW			X		X
10	MW-16			12-2-24	3:11		3	3		3						GW			X		X

Special Instructions:
Email Analyticals to: CJBryant@paalp.com, Maochoa@paalp.com, and KHudgens@paalp.com

Relinquished by:	Date	Time	Received by:	Date	Time
Bartlett Madley	12/5/24	12:12			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL: Teresa Bledsoe	Date 12/5/24	Time 12:12

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered Y N
by Sampler/Client Rep. ?
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt:
Received: 4.9 °C Thermometer: NCG 13
Adjusted: °C Factor:

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

L: _____ CH: _____ W: _____

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701
Phone: 432-686-7235

Project Manager: David Adkins
Company Name: Talon LPE
Company Address: 408 Texas St.
City/State/Zip: Artesia, NM 88210
Telephone No: 575-441-4835 **Fax No:**
Sampler Signature: Bartlett Medley

Project Name: Lovington Deep (Lov Deep)
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10312
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only)
ORDER #: 4L050160

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge / GW=Groundwater S=Soil/Solid / NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: TX 1005 TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
11	MW-15			12-2-24	3:40		3	3		3						GW			X		X
12	MW-3			12-2-24	4:02		3	3		3						GW			X		X
13	MW-1			12-3-24	10:25		3	3		3						GW			X		X

Special Instructions:
Email Analyticals to: CJBryant@paalp.com, Maochoa@paalp.com, and KHudgens@paalp.com

Relinquished by:	Date	Time	Received by:	Date	Time
Bartlett Medley	12/5/24	12:12			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
			Marsa Bledsoe	12/5/24	12:12

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered Y N
by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt:
Received: 4.9 °C Thermometer: NCF 23
Adjusted: °C Factor:

Gmail

Sara Gotcher <sara@pbelab.com>

LOVINGTON DEEP

3 messages

Tressa bledsoe <tressa@pbelab.com> Thu, Dec 5, 2024 at 2:09 PM
To: "David J. Adkins" <dadkins@talonlpe.com>
Cc: Sara Gotcher <sara@pbelab.com>, Brent Barron <BrentBarron@pbelab.com>

Good Afternoon David,

Mr. Bartlett brought in these samples today. MW-3 the containers were frozen solid and the glass was broken on the voa's. I will need you to resample this one sample please.

Have a blessed day.

Thank You for your Business,

Tressa Bledsoe
432-686-7235

Tressa bledsoe <tressa@pbelab.com> Thu, Dec 5, 2024 at 2:42 PM
To: "David J. Adkins" <dadkins@talonlpe.com>
Cc: Sara Gotcher <sara@pbelab.com>, Brent Barron <BrentBarron@pbelab.com>

David we are needing only Monitor Well #3 resampled the rest of the voa's were fine.

Have a blessed day.

Thank You for your Business,

Tressa Bledsoe
432-686-7235

[Quoted text hidden]

David J. Adkins <dadkins@talonlpe.com> Thu, Dec 5, 2024 at 3:44 PM
To: Tressa bledsoe <tressa@pbelab.com>
Cc: Sara Gotcher <sara@pbelab.com>, Brent Barron <BrentBarron@pbelab.com>

Thank you Tressa. Sorry about that. Will do.

Sent from my iPhone

> On Dec 5, 2024, at 1:42 PM, Tressa bledsoe <tressa@pbelab.com> wrote:
>
> This message originated from an **External Source**. Please use proper judgment and caution when opening attachments, clicking links, or responding to this email.
>
> [Quoted text hidden]

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: Lovington Deep

Project Number: SRS #2002-10312

Location: Lea County, NM

Lab Order Number: 4L10013

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 12/13/24

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-3	4L10013-01	Water	12/06/24 07:34	12-10-2024 15:17

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

MW-3

4L10013-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4L1108	12/11/24 15:07	12/11/24 18:20	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1108	12/11/24 15:07	12/11/24 18:20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1108	12/11/24 15:07	12/11/24 18:20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1108	12/11/24 15:07	12/11/24 18:20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1108	12/11/24 15:07	12/11/24 18:20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*81.1 %*		*80-120*	*P4L1108*	*12/11/24 15:07*	*12/11/24 18:20*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*		*80-120*	*P4L1108*	*12/11/24 15:07*	*12/11/24 18:20*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/11/24 15:07	12/11/24 18:20	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/11/24 15:07	12/11/24 18:20	EPA 8021B	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4L1108 - * DEFAULT PREP *** **										
Blank (P4L1108-BLK1)				Prepared & Analyzed: 12/11/24						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.0970*		"	*0.120*		*80.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.123*		"	*0.120*		*102*	*80-120*			
LCS (P4L1108-BS1)				Prepared & Analyzed: 12/11/24						
Benzene	0.104	0.00100	mg/L	0.100		104	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.224	0.00200	"	0.200		112	80-120			
Xylene (o)	0.0998	0.00100	"	0.100		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	*0.101*		"	*0.120*		*84.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.133*		"	*0.120*		*111*	*80-120*			
LCS Dup (P4L1108-BSD1)				Prepared & Analyzed: 12/11/24						
Benzene	0.0955	0.00100	mg/L	0.100		95.5	80-120	8.82	20	
Toluene	0.0912	0.00100	"	0.100		91.2	80-120	9.27	20	
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120	9.55	20	
Xylene (p/m)	0.205	0.00200	"	0.200		103	80-120	8.69	20	
Xylene (o)	0.0912	0.00100	"	0.100		91.2	80-120	9.04	20	
Surrogate: 4-Bromofluorobenzene	*0.101*		"	*0.120*		*84.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.133*		"	*0.120*		*110*	*80-120*			
Calibration Blank (P4L1108-CCB1)				Prepared & Analyzed: 12/11/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.200		"							
Xylene (p/m)	0.230		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.0962*		"	*0.120*		*80.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.121*		"	*0.120*		*101*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4L1108 - * DEFAULT PREP *** **										
Calibration Blank (P4L1108-CCB2)				Prepared & Analyzed: 12/11/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.180		"							
Xylene (p/m)	0.290		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.0964*		*"*	*0.120*		*80.3*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.4*	*80-120*			
Calibration Check (P4L1108-CCV1)				Prepared & Analyzed: 12/11/24						
Benzene	0.100	0.00100	mg/L	0.100		100	80-120			
Toluene	0.0972	0.00100	"	0.100		97.2	80-120			
Ethylbenzene	0.0975	0.00100	"	0.100		97.5	80-120			
Xylene (p/m)	0.210	0.00200	"	0.200		105	80-120			
Xylene (o)	0.0963	0.00100	"	0.100		96.3	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0984*		*"*	*0.120*		*82.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.129*		*"*	*0.120*		*108*	*80-120*			
Calibration Check (P4L1108-CCV2)				Prepared & Analyzed: 12/11/24						
Benzene	0.102	0.00100	mg/L	0.100		102	80-120			
Toluene	0.0978	0.00100	"	0.100		97.8	80-120			
Ethylbenzene	0.0972	0.00100	"	0.100		97.2	80-120			
Xylene (p/m)	0.215	0.00200	"	0.200		108	80-120			
Xylene (o)	0.0978	0.00100	"	0.100		97.8	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0976*		*"*	*0.120*		*81.3*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.131*		*"*	*0.120*		*109*	*80-120*			
Calibration Check (P4L1108-CCV3)				Prepared: 12/11/24 Analyzed: 12/12/24						
Benzene	0.105	0.00100	mg/L	0.100		105	80-120			
Toluene	0.0998	0.00100	"	0.100		99.8	80-120			
Ethylbenzene	0.0992	0.00100	"	0.100		99.2	80-120			
Xylene (p/m)	0.220	0.00200	"	0.200		110	80-120			
Xylene (o)	0.0989	0.00100	"	0.100		98.9	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0948*		*"*	*0.120*		*79.0*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.132*		*"*	*0.120*		*110*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4L1108 - * DEFAULT PREP *** **										
Matrix Spike (P4L1108-MS1)	**Source: 4L10013-01**			Prepared: 12/11/24 Analyzed: 12/12/24						
Benzene	0.105	0.00100	mg/L	0.100	ND	105	80-120			
Toluene	0.0996	0.00100	"	0.100	ND	99.6	80-120			
Ethylbenzene	0.111	0.00100	"	0.100	0.000880	110	80-120			
Xylene (p/m)	0.220	0.00200	"	0.200	ND	110	80-120			
Xylene (o)	0.0977	0.00100	"	0.100	ND	97.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0975*		*"*	*0.120*		*81.3*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.131*		*"*	*0.120*		*110*	*80-120*			
Matrix Spike Dup (P4L1108-MSD1)	**Source: 4L10013-01**			Prepared: 12/11/24 Analyzed: 12/12/24						
Benzene	0.104	0.00100	mg/L	0.100	ND	104	80-120	0.985	20	
Toluene	0.0993	0.00100	"	0.100	ND	99.3	80-120	0.292	20	
Ethylbenzene	0.111	0.00100	"	0.100	0.000880	111	80-120	0.118	20	
Xylene (p/m)	0.220	0.00200	"	0.200	ND	110	80-120	0.123	20	
Xylene (o)	0.0971	0.00100	"	0.100	ND	97.1	80-120	0.575	20	
Surrogate: 4-Bromofluorobenzene	*0.0958*		*"*	*0.120*		*79.8*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.130*		*"*	*0.120*		*109*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: SRS #2002-10312
Midland TX, 79706	Project Manager: David Adkins

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
pH1	The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.
NPBEL C(	Chain of Custody was not generated at PBELAB
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 12/13/2024

Brent Barron, Laboratory Director/Technical Director

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

L: _____ CH: _____ W: _____

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701
Phone: 432-686-7235

Project Manager: David Adkins
Company Name: Talon LPE
Company Address: 408 Texas St.
City/State/Zip: Artesia, NM 88210
Telephone No: 575-441-4835 **Fax No:**
Sampler Signature: Bartlett Madley

Project Name: Lovington Deep (Lov Deep)
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10312
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only)
ORDER #: 4L10013

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Othe	Analyze For: TCLP: TPH: TX 1005	TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
1	MW-3			12-6-24	7:34		3	3		3						GW			X			X

Special Instructions:
Email Analyticals to: CJBryant@paalp.com, Maochoa@paalp.com, and KHudgens@paalp.com

Relinquished by:	Date	Time	Received by:	Date	Time
Bartlett Madley	12-9-24	2:48	Matthew Brasley	12/9/24	248
Matthew Brasley				12/10/24	2:30
			Received by PBEL:	12/10/24	15:17

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered Y N
by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt:
Received: 4.5 °C Thermometer: NCF 3
Adjusted: °C Factor:

PBEL_COC_2021_1 Revision #: 2021_1 Effective Date: 9-21-21

Page __ of __

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

Operator:	OGRID:
PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	34053
	Action Number: 497606
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
shanna.smith	Pursuant to 19.15.30 NMAC, An updated Stage 2 Abatement Plan and activities will be conducted and submitted as a report by December 16, 2025.	9/16/2025
shanna.smith	Continue to remove PSH by MDPE events as scheduled for the site.	9/16/2025
shanna.smith	Continue Quarterly Groundwater monitoring and sampling events and submit as scheduled.	9/16/2025