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TALON LPE

2024 Annual Groundwater Monitoring Report

C.S. Caylor
Lea County, New Mexico
SRS # 2002-10250
NMOCD REF. # AP-052, nAPP2109527803

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August 5, 2025

2024 ANNUAL GROUNDWATER MONITORING REPORT

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NMOCD – New Mexico Oil Conservation Division

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1. INTRODUCTION AND SITE HISTORY

C.S. Caylor (site) is located approximately seven (7) miles southeast of Lovington in Unit Letter B, Section 6, Township 17 South and Range 37 East in Lea County, New Mexico, on property owned by Robert C. Rice. There are no residences, groundwater supply wells, or surface water bodies within a 1,000-foot radius of the site. The initial release occurred from an EOTT Energy (EOTT) steel pipeline on September 19, 2002. Subsequently, EOTT changed its name to Link Energy in October 2003, and Plains Pipeline, L.P. (Plains) purchased the assets of Link Energy on April 1, 2004. Initial reports estimated the release at 70 barrels (bbls) of crude oil with no recovery during initial response actions. During site reconnaissance, it was observed that the ground surface beyond the current spill area had apparently been impacted by a prior spill or spills; however, the source(s) and date(s) of the spill(s) are unknown.

The site is situated in a physiographic area 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 playas accumulate sheet runoff from watershed areas ranging in size from less than one 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 3,810-feet above mean sea level with a slight slope to the southeast. The regional slope of the land surface in the Southern High Plains is approximately 100 feet per mile in a southeasterly direction.

On February 5, 2007, Talon/LPE was retained by Plains Pipeline, L.P. to assume remediation activities at the site. Remediation activities at the site were previously conducted by Environmental Plus, Inc. (EPI).

1.1 Site Geology

The surface 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 consists of sand, clay, silt, and abundant eroded gravel to cobble size caliche fragments. Below the top soil is predominately unconsolidated sand to weakly cemented sandstone, which has undergone calcification 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, the Ogallala was deposited by fluvial mechanism as paleovalley fill composed of gravelly to sandy braided stream deposits that trended 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 Epoch.

1.2 Previous Environmental Investigations

A total of 39 groundwater monitor wells (21 original monitor wells and 18 replacement wells) have been installed in the vicinity of the release (see Figure 1). With New Mexico Oil Conservation Division (NMOCD) approval and landowner concurrence, groundwater monitor well MW-1 was installed in October 2002 and was subsequently plugged in September 2008 due to the well being dry. Groundwater monitor wells (MW-2 through MW-5) were installed from May to June 2004, and MW-6 through MW-10 were installed in October 2004. Groundwater monitor wells (MW-11 through MW-17) were installed in February 2006, and MW-18 was installed in March 2008. Replacement monitor well MW-1A was installed in September 2008.

During 2011, four (4) replacement monitor wells were drilled at the site (MW-2A, MW-7A, MW-8A, and MW-12A). Groundwater levels at the site have declined an average of 13.5 feet since groundwater measurements were first obtained in 2002. Groundwater had not been detected in monitor well MW-7 since the gauging event on September 21, 2010, or in monitor well MW-8 since the gauging event on June 10, 2009; therefore, monitor wells MW-7 and MW-8 were plugged, and replacement monitor wells MW-7A and MW-8A were installed on April 19 - 20, 2011.

During the gauging event on March 23, 2011, the total depth (TD) of monitor well MW-2 was 88 feet below top of casing (btoc), it contained approximately five (5) feet of phase-separated hydrocarbons (PSH), and groundwater was not detected. The TD of monitor well MW-12 was 90 feet btoc. Gauging indicated approximately five (5) feet of PSH, and groundwater at TD. Since the fluid column of the wells was inadequate to install pumps, replacement monitor wells MW-2A and MW-12A were drilled on April 28, 2011. MW-2 and MW-12 were not plugged.

During 2012, four (4) replacement monitor wells were drilled at the site (MW-9A, MW-10A, MW-13A, and MW-14A) due to declining groundwater levels. The previously existing wells (MW-9, MW-10, MW-13, and MW-14) were plugged.
During 2013, five (5) replacement monitor wells were drilled at the site (MW-3A, MW-4A, MW-6A, MW-11A, and MW-18A) due to declining groundwater levels. The previously existing wells (MW-3, MW-4, MW-6, MW-11, and MW-18) were plugged.

During 2016, four (4) replacement monitor wells (MW-5A, MW-15A, MW-16A, and MW-17A) were drilled. Three (3) additional wells (MW-19, MW-20, and MW-21) were also drilled due to declining groundwater levels, to aid in PSH recovery, and to delineate the dissolved phase plume. The groundwater monitoring wells MW-2, MW-5, MW-12, MW-15, MW-16, and MW-17 were plugged.

PSH recovery operations have been performed at the site since September 2002. A summary of the historical groundwater and PSH gauging is provided in Table 1. Approximately 2,619.81 bbls of crude oil have been recovered from the site as of December 31, 2024.

During 2024, the groundwater recovery system extracted approximately 14.24 bbls of PSH and 5,672 bbls of groundwater. Four (4) MDPE events conducted in January, May, August, and December 2024, recovered 21.79 bbls of PSH which consisted of 6.42 bbls of vapor and 15.37 bbls of liquid PSH. A cumulative total of 36.03 bbls of PSH were recovered in 2024.

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, Table 3, and Table 4 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 plumes in order to verify the effectiveness of the remediation system as to inhibiting plume migration, reducing the volume of PSH impact to the groundwater and determining if modifications to the remediation system would improve performance and efficiency.

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, September, and December.

During the March 2024 groundwater monitoring event, 20 monitor wells were gauged. A total of 11 monitor wells (MW-6A, MW-9A through MW-11A, MW -13A through MW-18A, and MW-21) were purged and sampled. Due to the presence of PSH, two (2) monitor wells (MW-5A and MW-12A) were not sampled. It was noted that six (6) monitor wells (MW-1A, MW-2A, MW-3A, MW-4A, MW-7A, and MW-8A) were dry when gauged and the pump was stuck in monitor well MW-19; therefore, the aforementioned wells were not purged or sampled. Monitor well MW-20 was not scheduled to be sampled. Details of the gauging, purging, and sampling activities are presented in Section 2.2

During the June 2024 groundwater monitoring event, 20 monitor wells were gauged. A total of 11 monitor wells (MW-6A, MW-9A through MW-11A, MW -13A through MW-18A, and MW-21) were purged and sampled. Due to the presence of PSH, two (2) monitor wells (MW-5A and MW-12A) were not sampled. It was noted that six (6) monitor wells (MW-1A, MW-2A, MW-3A, MW-4A, MW-7A, and MW-8A) were dry when gauged, and the pump was stuck in monitor well MW-19; therefore, the aforementioned wells were not purged or sampled. Monitor well MW-20 was not scheduled to be sampled. Details of the gauging, purging, and sampling activities are presented in Section 2.2.

During the September 2024 groundwater monitoring event, 20 monitor wells were gauged. A total of 10 monitor wells (MW-6A, MW-10A, MW-11A, MW-13A through MW-18A, and MW-21) were purged and sampled. Due to the presence of PSH, one (1) monitor well (MW-5A) was not sampled. It was noted that six (6) monitor wells (MW-1A, MW-2A, MW-3A, MW-4A, MW-7A, and MW-8A) were dry when gauged, monitor well MW-9A contained insufficient water, and the pump was stuck in monitor wells

MW-12A and MW-19; therefore, the aforementioned wells were not purged or sampled. Monitor well MW-20 was not scheduled to be sampled. Details of the gauging, purging, and sampling activities are presented in Section 2.2.

During the December 2024 groundwater monitoring event, 20 monitor wells were gauged. A total of 10 monitor wells (MW-6A, MW-10A, MW-11A, MW-13A through MW-18A, and MW-21) were purged and sampled. Due to the presence of PSH, three (3) monitor wells (MW-5A, MW-12A, and MW-19) were not sampled. It was noted that six (6) monitor wells (MW-1A, MW-2A, MW-3A, MW-4A, MW-7A, and MW-8A) were dry when gauged and monitor well MW-9A had insufficient water; therefore, the aforementioned wells were not purged or sampled. Monitor well MW-20 was not scheduled to be 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 accessible monitor wells were measured with an oil/water interface probe to determine static water levels and to determine the thickness of PSH accumulation, if present. The data collected from the measurements was used to construct groundwater gradient maps and PSH thickness maps. The gauging results collected during the four (4) events are incorporated in Table 1 - Groundwater Gauging and NAPL Thickness – Historical in Appendix B.

Subsequent to gauging, all monitor wells with sufficient water volume and that did not indicate the presence of PSH were purged using a 12-volt submersible pump equipped with vinyl tubing. The 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 deposited into the onsite recovery tank. Between January and June 2022, water was transferred to the Rocky/Smith saltwater disposal (SWD) system. Since June 2022, water is transferred offsite by Gandy Marley to an NMOCD approved disposal facility, Gandy Marley, for disposal.

Groundwater samples were collected from all monitor wells that did not indicate the presence of PSH using dedicated disposable polyethylene bailers. The groundwater samples were contained in appropriately preserved, laboratory supplied sample vials. The groundwater samples were maintained on ice, in the custody of Talon/LPE personnel, until they were delivered to Permian Basin Environmental in Midland, Texas for testing. The groundwater samples collected during the four (4) events were quantified for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method SW-846 8021B.

Groundwater samples collected from wells (MW-6A, MW-10A, MW-11A, MW-13A, MW-14A, MW-17A, and MW-21) were also analyzed for polycyclic aromatic hydrocarbons (PAH) by EPA Method 8270 in March 2024.

Groundwater samples collected from wells (MW-6A, MW-10A, MW-11A, and MW-21) were also analyzed for Monitored Natural Attenuation (MNA) parameters. The monitor wells sampled for MNA parameters were purged using low-flow groundwater sampling procedures. Field parameters for dissolved oxygen, oxidation-reduction potential, pH, temperature, and conductivity were collected every three (3) to five (5) minutes during purging activities. When three (3) consecutive, consistent readings were observed, a groundwater sample was taken from the pump's discharge tubing into appropriately preserved, laboratory supplied sample containers. The groundwater samples were maintained on ice in the custody of Talon/LPE until delivery to Permian Basin Environmental in Midland, Texas for analysis of nitrate, sulfate, ferrous iron, manganese, alkalinity, and methane.

Samples dropped off at Permian Basin Environmental for PAH or MNA analysis were transported to ALS Houston in Stafford, TX.

2.3 Phase Separated Hydrocarbon Recovery

PSH recovery methods have been employed at the site since 2002. Recovery was initially conducted by hand bailing, followed in March of 2003 with a portable gasoline powered eductor recovery system.

In November 2007, an automated skimmer recovery system was installed at the site. The skimmer assembly consisted of bladder pumps combined with 24" traveling float specific gravity skimmer attachments. In July of 2009, a pneumatic total fluids pump was added to monitor well MW-1A, and in January of 2010, two (2) pneumatic total fluids pumps were added to monitor wells MW-2 and MW-3.

During 2022, there were two (2) total fluid pumps operating in monitor wells MW-12A and MW-19 for all four (4) quarters. The PSH and recovered groundwater was pumped into a frac tank on site. As the tank level fills a high-level head pressure switch activates a fluid transfer pump. When the pump is engaged the recovered fluids are transferred to a 4-inch HDPE line that is shared with the recovered fluids from Moore to Jal #1 and Moore to Jal #2 groundwater recovery systems. A 5-HP pump transferred the fluids to the Rocky/Smith SWD system for disposal between January and June 2022. Since June 2022, water is transferred offsite by Gandy Marley to the Gandy Marley facility for disposal.

During 2023, there were two (2) total fluid pumps operating in monitor wells MW-12A and MW-19 for all the first, third, and fourth quarters of 2023. During the second quarter, only the total fluid pump in monitor well MW-12A was operating; the total fluid pump in monitor well MW-19 was obstructed and was removed and replaced. The PSH and recovered groundwater was pumped into a frac tank on site. As the tank level fills a high-level head pressure switch activates a fluid transfer pump. When the pump is engaged the recovered fluids are transferred to a 4-inch HDPE line that is shared with the recovered fluids from Moore to Jal #1 and Moore to Jal #2 groundwater recovery systems. Water is transferred offsite by Gandy Marley to the Gandy Marley facility for disposal.

During 2024, there were three (3) total fluid pumps operating in monitor wells MW-5, MW-12A and MW-19 for all the four (4) quarters of 2024. The PSH and recovered groundwater was pumped into a frac tank on site. As the tank level fills a high-level head pressure switch activates a fluid transfer pump. When the pump is engaged the recovered fluids are transferred to a 4-inch HDPE line that is shared with the recovered fluids from Moore to Jal #1 and Moore to Jal #2 groundwater recovery systems. Water is transferred offsite by Gandy Marley to the Gandy Marley facility for disposal.

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

1st Quarter –	3.08	bbls PSH and	2,010	bbls of groundwater
2nd Quarter –	3.92	bbls PSH and	2,172	bbls of groundwater
3rd Quarter –	2.48	bbls PSH and	630	bbls of groundwater
4th Quarter –	4.76	bbls PSH and	860	bbls of groundwater

Four (4) 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 25, 2024 –	2.56	bbls vapor,	1.99	bbls liquid PSH
May 20, 2024 –	1.76	bbls vapor,	5.32	bbls liquid PSH
August 6, 2024 –	0.66	bbls vapor,	1.72	bbls liquid PSH
December 5, 2024 –	1.44	bbls vapor,	6.34	bbls liquid PSH

In 2024, an estimated total of 21.79 bbls of PSH were recovered during the MDPE events.

Approximately 36.03 bbls of crude oil bbls of crude oil was recovered in 2024 and an estimated 2,619.81 bbls of PSH has been recovered at the subject site to date.

3. GROUNDWATER MONITORING RESULTS

The results of the laboratory analyses are summarized in Table 2 – Groundwater Analytical Data – Historical, Table 3 – Groundwater Analytical Data – Historical – PAH Supplement, and Table 4 - Groundwater Analytical Data – Historical – MNA Supplement 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, encompassing 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 average from zero to 1.6 inches per year.

The Ogallala Aquifer is generally unconfined and the potentiometric surface mimics the topography with the regional flow direction from the northwest to the southeast. The mean regional gradient is 15 feet per mile and the typical groundwater velocity averages seven inches per day. The regional hydraulic conductivity averages 17 gallons per day per square-foot with a specific yield averaging 16%. The depth to groundwater at the site has historically ranged from 80 to 97 feet below ground surface, and the groundwater flow direction is to the southeast at an average of five (5) feet per mile. 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 often treatment strategies are 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 (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 and NAPL Thickness – Historical in Appendix B.

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

- March 11, 2024
- June 11, 2024
- September 16, 2024
- December 12, 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 southeast with an average gradient of 0.00116 feet per foot (ft/ft), or approximately 6.12 feet per mile. Groundwater levels at the subject site have exhibited a decrease of an average of 1.11 feet for the year 2024 that appears to be associated with a regional trend of fluctuating groundwater levels for the Ogallala Aquifer.

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 two (2) monitor wells (MW-5A and MW-12A). PSH thickness in these wells ranged from 0.01 feet to 0.07 feet.

During the June 2024 sampling event, PSH was observed in two (2) monitor wells (MW-5A and MW-12A). PSH thickness in these wells ranged from 0.01 feet to 0.92 feet.

During the September 2024 sampling event, PSH was observed in one (1) monitor well (MW-5A). PSH thickness in this well measured at 0.30 feet.

During the December 2024 sampling event, PSH was observed in three (3) monitor wells (MW-5A, MW-12A, and MW-19). PSH thickness ranged from 0.01 feet to 1.58 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, 11 monitor wells (MW-6A, MW-9A through MW-11A, MW -13A through MW-18A, and MW-21) 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 concentrationswere below the applicable laboratory MDLs in all the 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.
- Naphthalene concentrations for all sampled wells were less than the laboratory MDL. Naphthalene concentrations did not exceed the NMWQCC groundwater standard of 0.030 mg/L in the monitor wells sampled during this quarter.
- Benzo(a)pyrene concentrations for all sampled wells were less than the laboratory MDL. Benzo(a)pyrene concentrations did not exceed the NMWQCC groundwater standard of 0.0007 mg/L in any of the monitor wells sampled during the quarter.
- Dibenzofuran concentrations for all sampled wells were less than the laboratory MDLs.
- Methane concentrations ranged from <0.000500 mg/L in MW-11A to 0.000748 mg/L in MW-21.
- Ferrous Iron concentrations ranged from <0.200 mg/L in MW11A and MW-21 to 0.305 mg/L in MW-10A.
- Manganese concentrations ranged from <0.00500 mg/L in MW-11A to 0.307 mg/L in MW-21.
- Total Alkalinity concentrations ranged from 138 mg/L in MW-10 to 345 mg/L in MW-6A and MW-21.

- Sulfate concentrations ranged from ranged from 44.4 mg/L in MW-10A to 114 mg/L in MW-21.
- Nitrate as N concentrations ranged from <0.200 mg/L in MW-6A and MW-11A to 1.54 mg/L in MW-21.

During the June 2024 sampling event, 11 monitor wells (MW-6A, MW-9A through MW-11A, MW -13A through MW-18A, and MW-21) 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.
- Methane concentrations ranged from 0.000541 mg/L in MW-21 to 0.00125 mg/L in MW-11A.
- Ferrous Iron concentrations ranged from <0.200 mg/L in MW-6A and MW-21 to 0.576 mg/L in MW-10A.
- Manganese concentrations ranged from 0.00862 mg/L in MW-6A to 0.342 mg/L in MW-21.
- Total Alkalinity concentrations ranged from 58.0 mg/L in MW-10A to 79.0 mg/L in MW- 6A.
- Sulfate concentrations ranged from 59.1mg/L in MW-6A to 63.7 mg/L in MW-10A.
- Nitrate as N concentrations ranged from 1.37 mg/L in MW-21 to 1.82 mg/L in MW-6A.

During the September 2024 sampling event, 10 monitor wells (MW-6A, MW-10A, MW-11A, MW-13A through MW-18A, and MW-21) 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 except for MW-6A. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in monitor well MW-6A at 0.0538 mg/L.

- 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 except for MW-6A. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.
- Methane concentrations ranged between 0.00106 mg/L in MW-10 to 0.00296 mg/L in MW-6A.
- Ferrous Iron concentrations were <0.200 mg/L in all of the monitor wells analyzed.
- Manganese concentrations ranged from <0.00500 mg/L in MW-11A to 0.267 mg/L in MW-21.
- Total Alkalinity concentrations ranged from 286 mg/L in MW-10A to 370 mg/L in MW-11A.
- Sulfate concentrations ranged from 41.2 mg/L in MW-10A to 51.5 mg/L in MW-6A.
- Nitrate as N concentrations ranged from 1.98 mg/L in MW-21 to 2.46 mg/L in MW-6A.

During the December 2024 sampling event, 10 monitor wells (MW-6A, MW-10A, MW-11A, MW-13A through MW-18A, and MW-21) 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 except for MW-6A. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in monitor well MW-6A at 0.0131 mg/L.
- 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.
- Methane concentrations ranged between 0.000965 mg/L in MW-10A to 0.00147 mg/L in MW-21.

- Ferrous Iron concentrations were <0.200 mg/L in all of the monitor wells analyzed.
- Manganese concentrations ranged from 0.00667 mg/L in MW-11A to 0.261 mg/L in MW-21.
- Total Alkalinity concentrations ranged from 286 mg/L in MW-10A to 344 mg/L in MW-11A.
- Sulfate concentrations ranged from 63.4 mg/L in MW-21 to 80.2 mg/L in MW-11A.
- Nitrate as N concentrations ranged from 1.32 mg/L in MW-21 to 2.10 mg/L in MW-11A.

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.

Historical benzene concentrations in wells MW-6A, MW-8A, MW-9A, MW-12A, and MW-20 were analyzed using the Mann-Kendall statistical methods to quantitatively determine if the concentrations are increasing, decreasing, or stable over time. The Mann-Kendall analysis is a non-parametric statistical procedure that is used for analyzing trends in data over time. The data was analyzed using the GSI Environmental Inc. Mann-Kendall Toolkit software. Based on the analysis, benzene concentrations in wells MW-6A, MW-9A, and MW-20 show a decreasing trend and benzene concentrations in MW-8A and MW-12A show no trend. Results of the Mann-Kendall analysis are included in Appendix D.

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 southeast with an average gradient of 0.00116 feet per foot based on the water level measurement data collected in 2024.
- PSH thicknesses have generally decreased during the year 2024.
- The PSH recovery system and MDPE events removed a cumulative total of 36.03 bbls of crude oil from the site during 2024.
- The benzene concentrations in MW-6A exceeded the NMWQCC groundwater standard of 0.010 mg/L during the September and December sampling events.

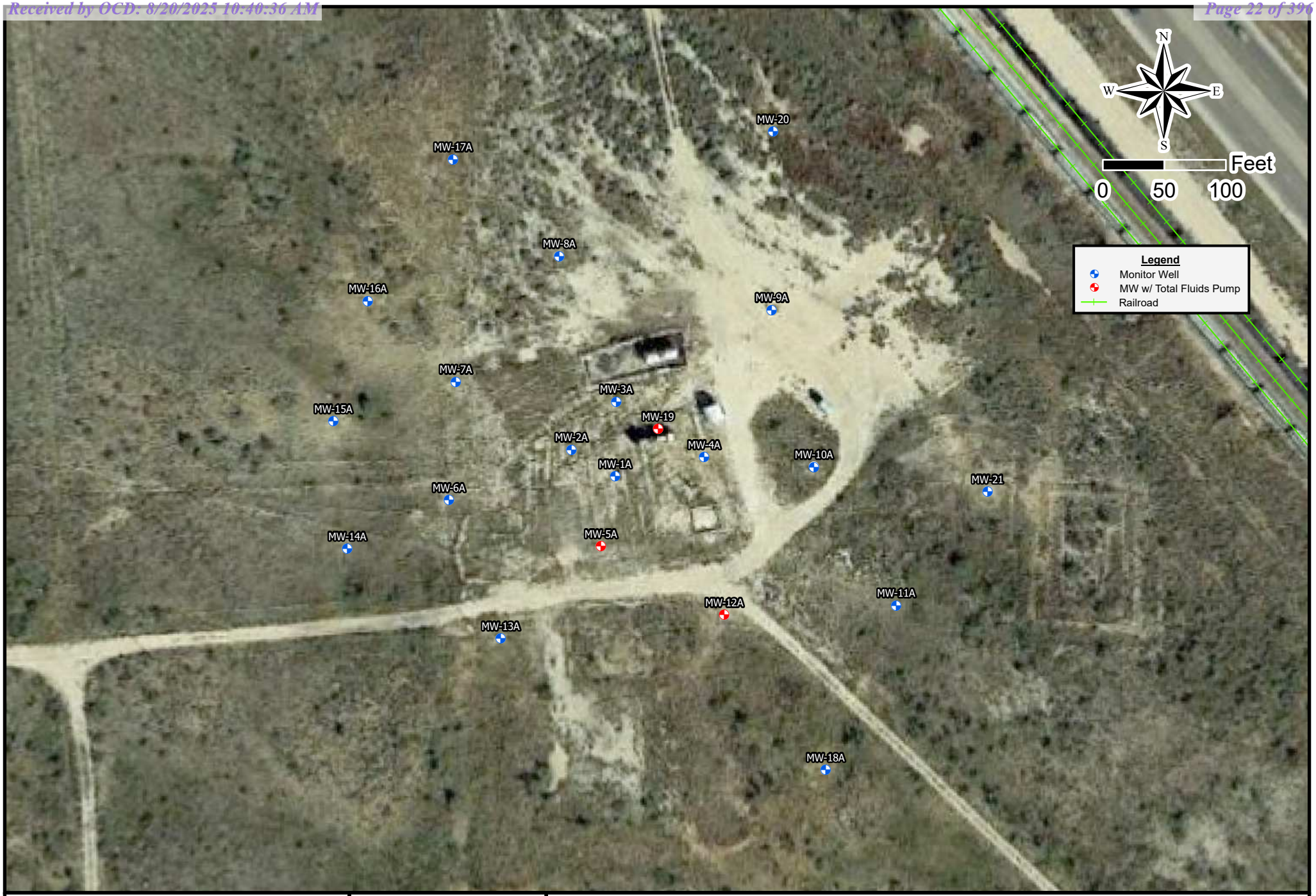
4.2 Recommendations

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

- Perform quarterly groundwater monitoring events in accordance with NMOCD directives.
- Continue operation and maintenance of the groundwater recovery system.
- Install additional monitoring wells to compensate for the declining water levels.
- Plug and abandon monitor well MW-20.

APPENDIX A

Figures



TALON LPE

Date: 5/16/2024
1 in = 100 ft
Drafted By: JAI

C.S. Caylor
SRS # 2002-10250, NMOCD REF. #nAPP2109527803
NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
32.867769, -103.28804
Figure 1 - Site Plan

TALON LPE

Date: 5/16/2024
1 in = 100 ft
Drafted By: JAI

C.S. Caylor
SRS # 2002-10250, NMOCD REF. #nAPP2109527803
NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
32.867769, -103.28804
Figure 2a - Groundwater Gradient Map (03/11/2024)

TALON LPE

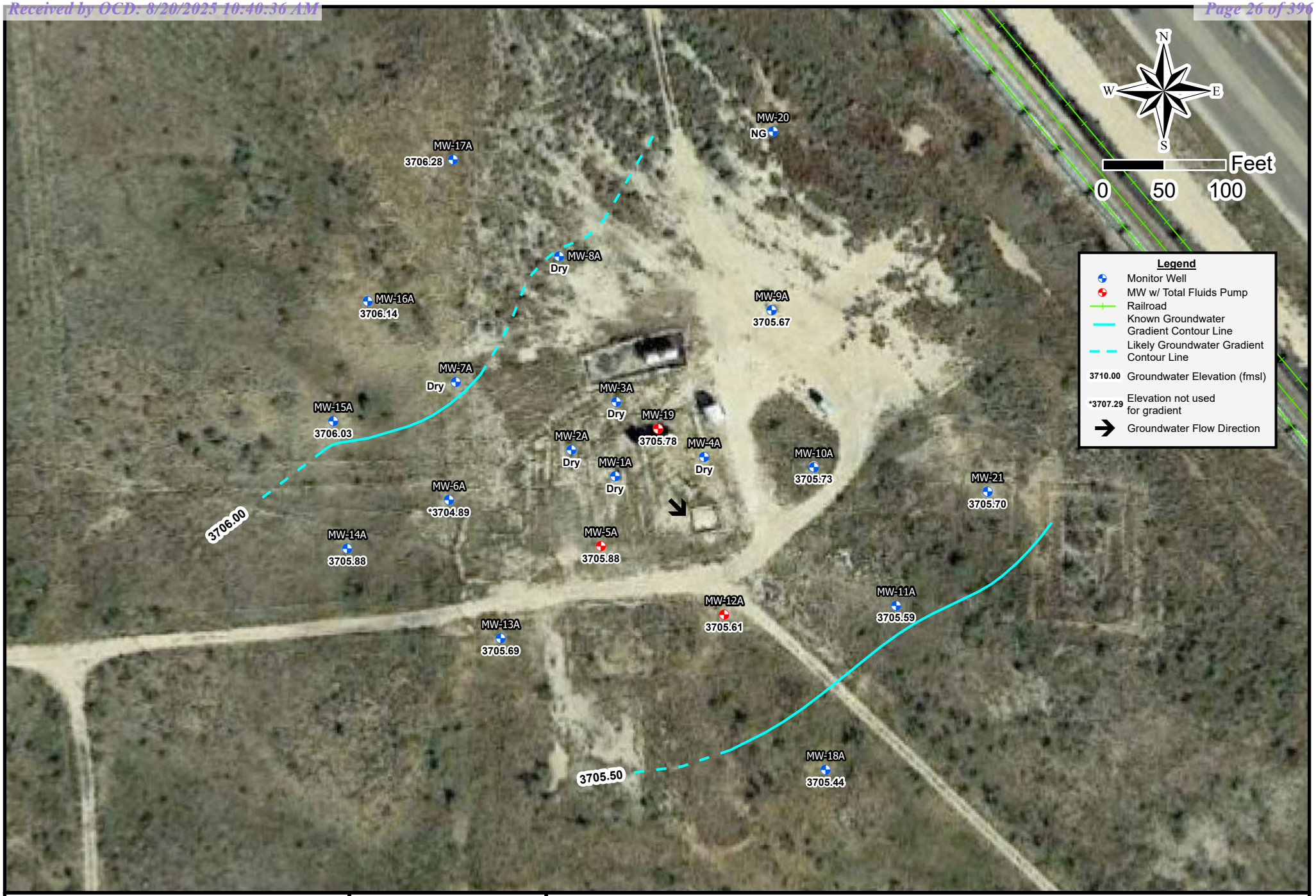
Date: 8/7/2024
1 in = 100 ft
Drafted By: JAI

C.S. Caylor
SRS # 2002-10250, NMOCD REF. #nAPP2109527803
NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
32.867769, -103.28804
Figure 2b - Groundwater Gradient Map (06/11/2024)

TALON LPE

Date: 3/17/2025
1 in = 100 ft
Drafted By: IJR

C.S. Caylor
SRS # 2002-10250, NMOCD REF. #nAPP2109527803
NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
32.867769, -103.28804
Figure 2c - Groundwater Gradient Map (09/16/2024)



TALON LPE

Date: 3/17/2025
1 in = 100 ft
Drafted By: IJR

C.S. Caylor
SRS # 2002-10250, NMOCD REF. #nAPP2109527803
NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
32.867769, -103.28804
Figure 2d- Groundwater Gradient Map (12/12/2024)

TALON LPE

Date: 5/22/2024
1 in = 100 ft
Drafted By: JAI

C.S. Caylor
SRS # 2002-10250, NMOCD REF. #nAPP2109527803
NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
32.867769, -103.28804
Figure 3a - PSH Thickness & Groundwater Concentration Map (03/11-14/2024)

TALON LPE

Date: 8/7/2024
1 in = 100 ft
Drafted By: JAI

C.S. Caylor
SRS # 2002-10250, NMOCD REF. #nAPP2109527803
NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
32.867769, -103.28804
Figure 3b - PSH Thickness & Groundwater Concentration Map (06/11-13/2024)

TALON LPE

Date: 3/17/2025
1 in = 100 ft
Drafted By: IJR

C.S. Caylor
SRS # 2002-10250, NMOCD REF. #nAPP2109527803
NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
32.867769, -103.28804
Figure 3c - PSH Thickness Map (09/16-17/2024)

TALON LPE

Date: 3/17/2025
1 in = 100 ft
Drafted By: IJR

C.S. Caylor
SRS # 2002-10250, NMOCD REF. #nAPP2109527803
NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
32.867769, -103.28804
Figure 3d - PSH Thickness Map (12/12-13/2024)

APPENDIX B

Tables

Table 1 - Groundwater Gauging and NAPL Thickness - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-1A 4"	3810.14	76.2	96.2	03/21/2016	95.96	91.70	4.26	3717.74
				06/16/2016	92.78	92.08	0.70	3717.94
				09/13/2016	95.83	92.98	2.85	3716.69
				11/29/2016	95.88	92.91	2.97	3716.74
				03/13/2017	95.85	92.90	2.95	3716.75
				06/07/2017	96.00	93.18	2.82	3716.49
				09/18/2017	95.61	94.01	1.60	3715.87
				12/13/2017	95.85	93.90	1.95	3715.92
				03/23/2018	95.87	93.91	1.96	3715.91
				06/13/2018	95.90	94.60	1.30	3715.33
				09/25/2018	96.01	95.60	0.41	3714.47
				12/12/2018	95.92	95.45	0.47	3714.61
				03/21/2019	95.91	95.31	0.60	3714.73
				06/13/2019	95.87	95.65	0.22	3714.45
				09/18/2019	DR	-	-	-
				12/08/2019	DR	-	-	-
				03/11/2020	95.92	95.90	0.02	3714.24
				05/01/2020	DR	-	-	-
				06/08/2020	98.36	96.48	1.88	3713.35
				09/23/2020	DR	-	-	-
				12/10/2020	DR	-	-	-
				03/10/2021	DR	-	-	-
				06/11/2021	DR	-	-	-
				09/15/2021	DR	-	-	-
				12/13/2021	DR	-	-	-
				03/18/2022	DR	-	-	-
				06/20/2022	DR	-	-	-
				09/19/2022	DR	-	-	-
				12/19/2022	DR	-	-	-
				03/17/2023	DR	-	-	-
				06/16/2023	DR	-	-	-
				09/18/2023	DR	-	-	-
				12/18/2023	DR	-	-	-
				3/11/2024	DR	-	-	-
				06/11/2024	DR	-	-	-
				09/16/2024	DR	-	-	-
				12/12/2024	DR	-	-	-
MW-2 4"	3807.38	68.1	88.1	06/16/2016	PA	-	-	-
MW-2A 4"	3810.14	79	109	03/21/2016	NL	-	-	-
				06/16/2016	NL	-	-	-
				09/13/2016	NL	-	-	-
				11/29/2016	98.81	92.77	6.04	3716.37
				03/13/2017	98.75	92.77	5.98	3716.38
				06/07/2017	DR	-	-	-
				09/18/2017	99.54	93.83	5.71	3715.37
				12/13/2017	100.05	93.80	6.25	3715.31
				03/23/2018	102.20	93.79	8.41	3714.96
				06/13/2018	102.20	94.48	7.72	3714.39
				09/25/2018	100.80	95.35	5.45	3713.89
				12/12/2018	100.80	95.30	5.50	3713.93
				03/21/2019	103.27	95.15	8.12	3713.65
				06/13/2019	102.35	95.50	6.85	3713.51
				09/18/2019	102.25	96.46	5.79	3712.72
				12/08/2019	102.56	96.10	6.46	3712.97
				03/11/2020	103.95	95.87	8.08	3712.94
				05/01/2020	104.85	96.20	8.65	3712.51
				06/08/2020	DR	-	-	-
				09/23/2020	104.00	97.50	6.50	3711.57
				12/10/2020	102.75	97.74	5.01	3711.57
				03/10/2021	101.91	98.68	3.23	3710.93
				06/11/2021	101.91	98.17	3.74	3711.35
				09/15/2021	102.30	98.90	3.40	3710.68
				12/13/2021	DR	-	-	-
				03/18/2022	DR	-	-	-
				06/20/2022	DR	-	-	-
				09/19/2022	DR	-	-	-
				12/19/2022	DR	-	-	-
				03/17/2023	DR	-	-	-
				06/16/2023	DR	-	-	-
				09/18/2023	DR	-	-	-
				12/18/2023	DR	-	-	-
				03/11/2024	DR	-	-	-
				06/11/2024	DR	-	-	-
				09/16/2024	DR	-	-	-
				12/12/2024	DR	-	-	-

Table 1 - Groundwater Gauging and NAPL Thickness - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-3A 4"	3810.47	83	113	03/21/2016	NL	-	-	-
				06/16/2016	93.85	93.38	0.47	3717.01
				09/13/2016	95.07	94.18	0.89	3716.14
				11/29/2016	94.20	-	-	3716.27
				03/13/2017	94.31	94.25	0.06	3716.21
				06/07/2017	94.90	94.56	0.34	3715.85
				09/18/2017	95.58	95.42	0.16	3715.02
				12/13/2017	95.45	93.80	1.65	3716.40
				03/23/2018	95.68	95.22	0.46	3715.17
				06/13/2018	96.35	96.00	0.35	3714.41
				09/25/2018	97.36	97.02	0.34	3713.39
				12/12/2018	97.30	96.70	0.60	3713.67
				03/21/2019	97.14	96.31	0.83	3714.02
				06/13/2019	97.92	96.91	1.01	3713.39
				09/18/2019	98.57	97.74	0.83	3712.59
				12/08/2019	98.75	97.20	1.55	3713.01
				03/11/2020	97.12	96.83	0.29	3713.59
				05/01/2020	98.80	97.30	1.50	3712.92
				06/08/2020	98.45	97.20	1.25	3713.06
				09/23/2020	99.50	98.05	1.45	3712.18
				12/10/2020	99.49	98.25	1.24	3712.02
				03/10/2021	99.35	98.11	1.24	3712.16
				06/11/2021	99.52	98.62	0.90	3711.70
				09/15/2021	99.52	99.33	0.19	3711.11
				12/13/2021	DR	-	-	-
				03/18/2022	DR	-	-	-
				06/20/2022	DR	-	-	-
				09/19/2022	DR	-	-	-
				12/19/2022	DR	-	-	-
				03/17/2023	DR	-	-	-
				06/16/2023	DR	-	-	-
				09/18/2023	DR	-	-	-
				12/18/2023	DR	-	-	-
				03/11/2024	DR	-	-	-
				06/11/2024	DR	-	-	-
				09/16/2024	DR	-	-	-
				12/12/2024	DR	-	-	-
MW-4A 4"	3810.45	75	105	03/21/2016	97.85	92.30	5.55	3717.23
				06/16/2016	97.55	92.85	4.70	3716.82
				09/13/2016	98.57	93.66	4.91	3715.98
				11/29/2016	98.35	93.45	4.90	3716.19
				03/13/2017	98.60	93.50	5.10	3716.11
				06/07/2017	99.10	93.80	5.30	3715.78
				09/18/2017	100.56	94.55	6.01	3714.91
				12/13/2017	100.01	95.24	4.77	3714.42
				03/23/2018	99.55	94.54	5.01	3715.08
				06/13/2018	98.69	95.68	3.01	3714.27
				09/25/2018	101.11	96.48	4.63	3713.21
				12/12/2018	101.30	96.10	5.20	3713.49
				03/21/2019	99.61	95.98	3.63	3713.87
				06/13/2019	99.72	96.56	3.16	3713.37
				09/18/2019	101.31	97.23	4.08	3712.55
				12/08/2019	101.25	96.75	4.50	3712.96
				03/11/2020	99.65	96.58	3.07	3713.36
				05/01/2020	106.60	96.95	9.65	3711.91
				06/08/2020	99.75	97.15	2.60	3712.87
				09/23/2020	OB	-	-	-
				12/10/2020	OB	-	-	-
				03/10/2021	101.31	97.23	4.08	3712.55
				06/11/2021	OBS	-	-	-
				09/15/2021	OBS	-	-	-
				09/29/2021	101.49	99.70	1.79	3710.45
				12/13/2021	101.50	99.90	1.60	3710.29
				03/18/2022	101.20	99.90	1.30	3710.34
				06/20/2022	101.42	100.46	0.96	3709.83
				09/19/2022	DR	-	-	-
				12/19/2022	DR	-	-	-
				03/17/2023	DR	-	-	-
				06/16/2023	DR	-	-	-
				09/18/2023	DR	-	-	-
				12/18/2023	DR	-	-	-
				03/11/2024	DR	-	-	-
				06/11/2024	DR	-	-	-
				09/16/2024	DR	-	-	-
				12/12/2024	DR	-	-	-

Table 1 - Groundwater Gauging and NAPL Thickness - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-5 4"	3809.29	73.4	93.4	03/21/2016	93.05	90.85	2.20	3718.08
				06/16/2016	PA	-	-	-
MW-5A 4"	3809.30	75	109	06/16/2016	92.58	92.50	0.08	3716.79
				09/13/2016	98.33	92.32	6.01	3715.99
				11/29/2016	96.89	92.36	4.53	3716.19
				03/13/2017	97.96	92.23	5.73	3716.12
				06/07/2017	98.10	92.56	5.54	3715.83
				09/18/2017	99.72	93.33	6.39	3714.92
				12/13/2017	98.80	93.30	5.50	3715.09
				03/23/2018	99.02	93.26	5.76	3715.09
				06/13/2018	100.25	93.95	6.30	3714.31
				09/25/2018	101.70	94.28	7.42	3713.80
				12/12/2018	101.15	94.70	6.45	3713.54
				03/21/2019	99.66	94.51	5.15	3713.94
				06/13/2019	98.95	94.94	4.01	3713.70
				09/18/2019	101.86	96.00	5.86	3712.33
				12/08/2019	100.20	95.67	4.53	3712.88
				03/11/2020	99.35	95.25	4.10	3713.37
				05/01/2020	101.40	95.85	5.55	3712.53
				06/08/2020	101.10	96.15	4.95	3712.33
				09/23/2020	97.00	96.90	0.10	3712.38
				12/10/2020	104.02	97.36	6.66	3710.84
				03/10/2021	102.97	97.32	5.65	3711.05
				06/11/2021	98.46	98.40	0.06	3710.89
				09/29/2021	99.40	99.39	0.01	3709.91
				12/13/2021	103.78	98.72	5.06	3709.75
				03/18/2022	101.60	99.25	2.35	3709.66
				06/20/2022	103.78	99.33	4.45	3709.24
				09/19/2022	102.14	101.12	1.02	3708.01
				12/19/2022	102.96	100.87	2.09	3708.09
				03/17/2023	101.82	101.10	0.72	3708.08
				06/16/2023	101.81	101.80	0.01	3707.50
				09/18/2023	103.04	102.63	0.41	3706.60
				12/18/2023	102.95	102.80	0.15	3706.48
				03/11/2024	102.52	102.45	0.07	3706.84
				06/11/2024	103.74	102.82	0.92	3706.33
				09/16/2024	103.95	103.65	0.30	3705.60
				12/12/2024	103.43	103.42	0.01	3705.88
MW-6A 4"	3809.04	83	114	03/21/2016	92.61	-	-	3716.43
				06/16/2016	93.04	-	-	3716.00
				09/13/2016	93.88	-	-	3715.16
				11/29/2016	93.72	-	-	3715.32
				03/13/2017	93.46	-	-	3715.58
				06/07/2017	94.12	-	-	3714.92
				09/18/2017	94.99	-	-	3714.05
				12/13/2017	94.87	-	-	3714.17
				03/23/2018	94.85	-	-	3714.19
				06/13/2018	95.55	-	-	3713.49
				09/25/2018	96.56	-	-	3712.48
				12/12/2018	96.56	-	-	3712.48
				03/21/2019	96.05	-	-	3712.99
				06/13/2019	96.60	-	-	3712.44
				09/18/2019	97.52	-	-	3711.52
				12/08/2019	97.05	-	-	3711.99
				03/11/2020	96.53	-	-	3712.51
				05/01/2020	97.20	-	-	3711.84
				06/05/2020	97.60	-	-	3711.44
				09/23/2020	98.80	-	-	3710.24
				12/09/2020	98.85	-	-	3710.19
				03/10/2021	98.80	-	-	3710.24
				06/11/2021	99.31	-	-	3709.73
				09/14/2021	99.94	-	-	3709.10
				12/13/2021	100.25	-	-	3708.79
				03/18/2022	100.20	-	-	3708.84
				06/20/2022	100.81	-	-	3708.23
				09/19/2022	101.75	-	-	3707.29
				12/19/2022	101.77	-	-	3707.27
				03/17/2023	101.80	-	-	3707.24
				06/16/2023	102.25	-	-	3706.79
				09/18/2023	103.14	-	-	3705.90
				12/18/2023	103.37	-	-	3705.67
				03/11/2024	103.03	-	-	3706.01
				06/11/2024	103.48	-	-	3705.56
				09/16/2024	104.19	-	-	3704.85
				12/12/2024	104.15	-	-	3704.89

Table 1 - Groundwater Gauging and NAPL Thickness - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-7A 4"	3810.63	71	101	03/21/2016	96.71	92.60	4.11	3717.35
				06/16/2016	97.30	92.74	4.56	3717.14
				09/13/2016	94.95	94.00	0.95	3716.47
				11/29/2016	94.35	94.27	0.08	3716.35
				03/13/2017	96.40	93.90	2.50	3716.32
				06/07/2017	94.69	94.60	0.09	3716.02
				09/18/2017	95.55	95.40	0.15	3715.21
				12/13/2017	95.92	95.20	0.72	3715.31
				03/23/2018	96.94	94.97	1.97	3715.33
				06/13/2018	96.30	96.02	0.28	3714.56
				09/24/2018	97.38	97.01	0.37	3713.56
				12/12/2018	97.10	96.85	0.25	3713.74
				03/21/2019	96.88	96.55	0.33	3714.03
				06/13/2019	96.90	96.89	0.01	3713.74
				09/18/2019	99.70	97.12	2.58	3713.08
				12/08/2019	99.78	96.90	2.88	3713.25
				03/11/2020	98.55	96.78	1.77	3713.56
				05/01/2020	99.75	96.92	2.83	3713.24
				06/05/2020	99.70	97.16	2.54	3713.05
				09/23/2020	99.82	98.25	1.57	3712.12
				12/09/2020	99.76	98.45	1.31	3711.96
				03/10/2021	99.05	98.45	0.60	3712.08
				06/11/2021	99.82	98.97	0.85	3710.81
				09/15/2021	99.86	99.58	0.28	3711.00
				12/13/2021	DR	-	-	-
				03/18/2022	DR	-	-	-
				06/20/2022	DR	-	-	-
				09/19/2022	DR	-	-	-
				12/19/2022	DR	-	-	-
				03/17/2023	DR	-	-	-
				06/16/2023	DR	-	-	-
				09/18/2023	DR	-	-	-
				12/18/2023	DR	-	-	-
				03/11/2024	DR	-	-	-
				06/11/2024	DR	-	-	-
				09/16/2024	DR	-	-	-
				12/12/2024	DR	-	-	-
MW-8A 4"	3810.73	73	103	03/21/2016	93.26	-	-	3717.47
				06/16/2016	93.55	-	-	3717.18
				09/13/2016	94.35	-	-	3716.38
				11/29/2016	94.27	-	-	3716.46
				03/13/2017	94.02	-	-	3716.71
				06/07/2017	94.67	-	-	3716.06
				09/18/2017	95.45	-	-	3715.28
				12/13/2017	95.40	-	-	3715.33
				03/23/2018	95.38	-	-	3715.35
				06/13/2018	96.06	-	-	3714.67
				09/25/2018	97.05	-	-	3713.68
				12/12/2018	96.91	-	-	3713.82
				03/21/2019	96.65	-	-	3714.08
				06/13/2019	97.12	-	-	3713.61
				09/18/2019	97.96	-	-	3712.77
				12/08/2019	97.60	-	-	3713.13
				03/11/2020	97.15	-	-	3713.58
				05/01/2020	97.72	-	-	3713.01
				06/05/2020	98.11	-	-	3712.62
				09/23/2020	99.00	-	-	3711.73
				12/09/2020	99.34	-	-	3711.39
				03/10/2021	99.33	-	-	3711.40
				06/11/2021	99.82	-	-	3710.91
				09/14/2021	100.38	-	-	3710.35
				12/13/2021	100.75	-	-	3709.98
				03/18/2022	100.73	-	-	3710.00
				06/20/2022	101.29	-	-	3709.44
				09/19/2022	DR	-	-	-
				12/19/2022	DR	-	-	-
				03/17/2023	DR	-	-	-
				06/16/2023	DR	-	-	-
				09/18/2023	DR	-	-	-
				12/18/2023	DR	-	-	-
				03/11/2024	DR	-	-	-
				06/11/2024	DR	-	-	-
				09/16/2024	DR	-	-	-
				12/12/2024	DR	-	-	-

Table 1 - Groundwater Gauging and NAPL Thickness - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-9A 2"	3810.73	77	107	03/21/2016	93.63	-	-	3717.10
				06/16/2016	94.00	-	-	3716.73
				09/13/2016	94.81	-	-	3715.92
				11/29/2016	94.68	-	-	3716.05
				03/13/2017	94.40	-	-	3716.33
				06/07/2017	95.08	-	-	3715.65
				09/18/2017	95.91	-	-	3714.82
				12/13/2017	95.77	-	-	3714.96
				03/23/2018	95.77	-	-	3714.96
				06/13/2018	96.48	-	-	3714.25
				09/25/2018	97.54	-	-	3713.19
				12/12/2018	94.86	-	-	3715.87
				03/21/2019	97.01	-	-	3713.72
				06/13/2019	97.55	-	-	3713.18
				09/18/2019	98.48	-	-	3712.25
				12/08/2019	97.95	-	-	3712.78
				03/11/2020	97.45	-	-	3713.28
				05/01/2020	98.15	-	-	3712.58
				06/05/2020	98.53	-	-	3712.20
				09/23/2020	DR	-	-	-
				12/09/2020	99.84	-	-	3710.89
				03/10/2021	99.73	-	-	3711.00
				06/11/2021	100.23	-	-	3710.50
				09/14/2021	100.86	-	-	3709.87
				12/13/2021	101.22	-	-	3709.51
				03/18/2022	101.15	-	-	3709.58
				06/20/2022	101.76	-	-	3708.97
				09/19/2022	102.70	-	-	3708.03
				12/19/2022	102.85	-	-	3707.88
				03/17/2023	102.71	-	-	3708.02
				06/16/2023	103.20	-	-	3707.53
				09/18/2023	104.10	-	-	3706.63
				12/18/2023	104.32	-	-	3706.41
				03/11/2024	103.95	-	-	3706.78
				06/11/2024	104.44	-	-	3706.29
				09/16/2024	105.12	-	-	3705.61
				12/12/2024	105.06	-	-	3705.67
MW-10A 2"	3810.41	84	114	03/21/2016	93.24	-	-	3717.17
				06/16/2016	93.68	-	-	3716.73
				09/13/2016	94.55	-	-	3715.86
				11/29/2016	94.26	-	-	3716.15
				03/13/2017	94.00	-	-	3716.41
				06/07/2017	94.72	-	-	3715.69
				09/18/2017	95.64	-	-	3714.77
				12/13/2017	95.35	-	-	3715.06
				03/23/2018	95.45	-	-	3714.96
				06/13/2018	96.16	-	-	3714.25
				09/25/2018	97.30	-	-	3713.11
				12/12/2018	96.93	-	-	3713.48
				03/21/2019	96.59	-	-	3713.82
				06/13/2019	97.20	-	-	3713.21
				09/18/2019	98.21	-	-	3712.20
				12/08/2019	97.56	-	-	3712.85
				03/11/2020	97.00	-	-	3713.41
				05/01/2020	97.80	-	-	3712.61
				06/05/2020	98.22	-	-	3712.19
				09/23/2020	99.25	-	-	3711.16
				12/09/2020	99.47	-	-	3710.94
				03/10/2021	99.37	-	-	3711.04
				06/11/2021	99.87	-	-	3710.54
				09/14/2021	100.62	-	-	3709.79
				12/13/2021	100.90	-	-	3709.51
				03/18/2022	100.85	-	-	3709.56
				06/20/2022	101.50	-	-	3708.91
				09/19/2022	102.46	-	-	3707.95
				12/19/2022	102.35	-	-	3708.06
				03/17/2023	102.35	-	-	3708.06
				06/16/2023	102.86	-	-	3707.55
				09/18/2023	103.89	-	-	3706.52
				12/18/2023	104.00	-	-	3706.41
				03/11/2024	103.80	-	-	3706.61
				06/11/2024	104.15	-	-	3706.26
				09/16/2024	104.85	-	-	3705.56
				12/12/2024	104.68	-	-	3705.73

Table 1 - Groundwater Gauging and NAPL Thickness - Historical
CS Caylor
Lea County, NM
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Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-11A 2"	3808.99	83	113	03/21/2016	91.93	-	-	3717.06
				06/16/2016	92.45	-	-	3716.54
				09/13/2016	93.35	-	-	3715.64
				11/29/2016	93.03	-	-	3715.96
				03/13/2017	92.71	-	-	3716.28
				06/07/2017	93.49	-	-	3715.50
				09/18/2017	94.49	-	-	3714.50
				12/13/2017	94.12	-	-	3714.87
				03/23/2018	94.21	-	-	3714.78
				06/13/2018	94.96	-	-	3714.03
				09/25/2018	96.91	-	-	3712.08
				12/12/2018	95.03	-	-	3713.96
				03/21/2019	95.27	-	-	3713.72
				06/13/2019	96.00	-	-	3712.99
				09/18/2019	97.05	-	-	3711.94
				12/08/2019	96.27	-	-	3712.72
				03/11/2020	95.68	-	-	3713.31
				05/01/2020	96.55	-	-	3712.44
				06/05/2020	96.97	-	-	3712.02
				09/23/2020	98.15	-	-	3710.84
				12/09/2020	98.27	-	-	3710.72
				03/10/2021	98.13	-	-	3710.86
				06/11/2021	98.62	-	-	3710.37
				09/14/2021	99.46	-	-	3709.53
				12/13/2021	99.72	-	-	3709.27
				03/18/2022	99.60	-	-	3709.39
				06/20/2022	100.33	-	-	3708.66
				09/19/2022	101.36	-	-	3707.63
				12/19/2022	101.13	-	-	3707.86
				03/17/2023	101.18	-	-	3707.81
				06/16/2023	101.64	-	-	3707.35
				09/18/2023	102.78	-	-	3706.21
				12/18/2023	102.81	-	-	3706.18
				03/11/2024	102.35	-	-	3706.64
				06/11/2024	103.00	-	-	3705.99
				09/16/2024	103.78	-	-	3705.21
				12/12/2024	103.40	-	-	3705.59
MW-12 2"	3809.81	70.8	90.8	06/16/2016	PA	-	-	-
MW-12A 4"	3808.98	79	109	03/21/2016	91.90	-	-	3717.08
				06/16/2016	92.02	-	-	3716.96
				09/13/2016	93.25	-	-	3715.73
				11/29/2016	92.98	-	-	3716.00
				03/13/2017	92.70	-	-	3716.28
				06/07/2017	93.40	-	-	3715.58
				09/18/2017	94.38	-	-	3714.60
				12/13/2017	94.09	-	-	3714.89
				03/23/2018	94.50	-	-	3714.48
				06/13/2018	94.85	-	-	3714.13
				09/25/2018	96.09	-	-	3712.89
				12/12/2018	95.61	-	-	3713.37
				03/21/2019	95.25	-	-	3713.73
				06/13/2019	95.94	-	-	3713.04
				09/18/2019	96.99	96.95	0.04	3712.02
				12/08/2019	96.55	96.20	0.35	3712.72
				03/11/2020	96.10	95.80	0.30	3713.13
				05/01/2020	97.22	96.35	0.87	3712.49
				06/05/2020	97.80	96.75	1.05	3712.06
				09/23/2020	99.40	97.80	1.60	3710.92
				12/09/2020	99.90	97.91	1.99	3710.74
				03/10/2021	100.13	97.70	2.43	3710.88
				06/11/2021	98.82	98.54	0.28	3710.39
				09/29/2021	99.40	99.39	0.01	3709.59
				12/13/2021	99.63	99.62	0.01	3709.36
				03/18/2022	99.50	-	-	3709.48
				06/20/2022	100.26	100.25	0.01	3708.73
				09/19/2022	101.21	101.20	0.01	3707.78
				12/19/2022	101.05	101.04	0.01	3707.94
				03/17/2023	101.05	101.04	0.01	3707.94
				06/16/2023	101.56	-	-	3707.42
				09/18/2023	102.63	102.62	0.01	3706.36
				12/18/2023	102.71	102.70	0.01	3706.28
				03/11/2024	102.30	102.29	0.01	3706.69
				06/11/2024	102.88	102.87	0.01	3706.11
				09/16/2024	OB	-	-	-
				12/12/2024	103.38	103.37	0.01	3705.61

Table 1 - Groundwater Gauging and NAPL Thickness - Historical
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Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-13A 4"	3809.49	78	108	03/21/2016	92.28	-	-	3717.21
				06/16/2016	92.72	-	-	3716.77
				09/13/2016	93.60	-	-	3715.89
				11/29/2016	93.37	-	-	3716.12
				03/13/2017	93.07	-	-	3716.42
				06/07/2017	93.76	-	-	3715.73
				09/18/2017	94.68	-	-	3714.81
				12/13/2017	94.48	-	-	3715.01
				03/23/2018	94.50	-	-	3714.99
				06/13/2018	95.20	-	-	3714.29
				09/25/2018	96.38	-	-	3713.11
				12/12/2018	96.00	-	-	3713.49
				03/21/2019	95.62	-	-	3713.87
				06/13/2019	96.27	-	-	3713.22
				09/18/2019	97.26	-	-	3712.23
				12/08/2019	96.68	-	-	3712.81
				03/11/2020	96.13	-	-	3713.36
				05/01/2020	96.87	-	-	3712.62
				06/05/2020	97.27	-	-	3712.22
				09/23/2020	98.35	-	-	3711.14
				12/09/2020	98.56	-	-	3710.93
				03/10/2021	98.46	-	-	3711.03
				06/11/2021	98.95	-	-	3710.54
				09/14/2021	99.66	-	-	3709.83
				12/13/2021	99.95	-	-	3709.54
				03/18/2022	99.87	-	-	3709.62
				06/20/2022	100.53	-	-	3708.96
				09/19/2022	101.54	-	-	3707.95
				12/19/2022	101.40	-	-	3708.09
				03/17/2023	101.43	-	-	3708.06
				06/16/2023	101.93	-	-	3707.56
				09/18/2023	102.92	-	-	3706.57
				12/18/2023	103.09	-	-	3706.40
				03/11/2024	102.68	-	-	3706.81
				06/11/2024	103.20	-	-	3706.29
				09/16/2024	103.92	-	-	3705.57
				12/12/2024	103.80	-	-	3705.69
MW-14A 2"	3809.93	84	114	03/21/2016	92.51	-	-	3717.42
				06/16/2016	92.97	-	-	3716.96
				09/13/2016	93.78	-	-	3716.15
				11/29/2016	93.66	-	-	3716.27
				03/13/2017	93.35	-	-	3716.58
				06/07/2017	94.02	-	-	3715.91
				09/18/2017	94.87	-	-	3715.06
				12/13/2017	94.77	-	-	3715.16
				03/23/2018	94.77	-	-	3715.16
				06/13/2018	95.46	-	-	3714.47
				09/25/2018	96.52	-	-	3713.41
				12/12/2018	97.23	-	-	3712.70
				03/21/2019	95.98	-	-	3713.95
				06/13/2019	96.44	-	-	3713.49
				09/18/2019	97.42	-	-	3712.51
				12/08/2019	96.96	-	-	3712.97
				03/11/2020	96.44	-	-	3713.49
				05/01/2020	97.12	-	-	3712.81
				06/05/2020	97.50	-	-	3712.43
				09/23/2020	98.50	-	-	3711.43
				12/09/2020	99.77	-	-	3710.16
				03/10/2021	98.73	-	-	3711.20
				06/11/2021	98.22	-	-	3711.71
				09/14/2021	99.83	-	-	3710.10
				12/13/2021	100.20	-	-	3709.73
				03/18/2022	100.13	-	-	3709.80
				06/20/2022	100.71	-	-	3709.22
				09/19/2022	101.65	-	-	3708.28
				12/19/2022	101.62	-	-	3708.31
				03/17/2023	101.69	-	-	3708.24
				06/16/2023	102.16	-	-	3707.77
				09/18/2023	103.03	-	-	3706.90
				12/18/2023	103.30	-	-	3706.63
				03/11/2024	102.95	-	-	3706.98
				06/11/2024	103.38	-	-	3706.55
				09/16/2024	104.10	-	-	3705.83
				12/12/2024	104.05	-	-	3705.88

Table 1 - Groundwater Gauging and NAPL Thickness - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-15	3810.93	72.2	92.2	03/21/2016	DR	-	-	-
2"				06/16/2016	PA	-	-	-
MW-15A	3810.76	75	120	07/12/2016	93.79	-	-	3716.97
2"				09/13/2016	94.40	-	-	3716.36
				11/29/2016	94.30	-	-	3716.46
				03/13/2017	94.05	-	-	3716.71
				06/07/2017	94.68	-	-	3716.08
				09/18/2017	95.48	-	-	3715.28
				12/13/2017	95.44	-	-	3715.32
				03/23/2018	95.41	-	-	3715.35
				06/13/2018	96.10	-	-	3714.66
				09/25/2018	97.04	-	-	3713.72
				12/12/2018	97.00	-	-	3713.76
				03/21/2019	96.66	-	-	3714.10
				06/13/2019	97.13	-	-	3713.63
				09/18/2019	98.03	-	-	3712.73
				12/08/2019	97.65	-	-	3713.11
				03/11/2020	97.10	-	-	3713.66
				05/01/2020	97.77	-	-	3712.99
				06/05/2020	98.15	-	-	3712.61
				09/23/2020	99.12	-	-	3711.64
				12/09/2020	99.37	-	-	3711.39
				03/10/2021	99.39	-	-	3711.37
				06/11/2021	99.87	-	-	3710.89
				09/14/2021	100.44	-	-	3710.32
				12/13/2021	100.80	-	-	3709.96
				03/18/2022	100.75	-	-	3710.01
				06/20/2022	101.33	-	-	3709.43
				09/19/2022	102.20	-	-	3708.56
				12/19/2022	102.25	-	-	3708.51
				03/17/2023	102.35	-	-	3708.41
				06/16/2023	102.81	-	-	3707.95
				09/18/2023	103.61	-	-	3707.15
				12/18/2023	103.90	-	-	3706.86
				03/11/2024	103.60	-	-	3707.16
				06/11/2024	104.00	-	-	3706.76
				09/16/2024	104.70	-	-	3706.06
				12/12/2024	104.73	-	-	3706.03
MW-16	3812.23	71.2	91.2	03/21/2016	DR	-	-	-
2"				06/16/2016	PA	-	-	-
MW-16A	3811.72	75	120	07/12/2016	94.61	-	-	3717.11
2"				09/13/2016	95.22	-	-	3716.50
				11/29/2016	95.20	-	-	3716.52
				03/13/2017	94.93	-	-	3716.79
				06/07/2017	95.54	-	-	3716.18
				09/18/2017	96.30	-	-	3715.42
				12/13/2017	96.31	-	-	3715.41
				03/23/2018	96.27	-	-	3715.45
				06/13/2018	96.96	-	-	3714.76
				09/25/2018	97.88	-	-	3713.84
				12/12/2018	97.80	-	-	3713.92
				03/21/2019	97.54	-	-	3714.18
				06/13/2019	97.97	-	-	3713.75
				09/18/2019	98.85	-	-	3712.87
				12/08/2019	98.50	-	-	3713.22
				03/11/2020	98.60	-	-	3713.12
				05/01/2020	98.83	-	-	3712.89
				06/05/2020	98.97	-	-	3712.75
				09/23/2020	99.83	-	-	3711.89
				12/09/2020	100.18	-	-	3711.54
				03/10/2021	100.22	-	-	3711.50
				06/11/2021	100.70	-	-	3711.02
				09/14/2021	101.25	-	-	3710.47
				12/13/2021	101.62	-	-	3710.10
				03/18/2022	101.60	-	-	3710.12
				06/20/2022	102.15	-	-	3709.57
				09/19/2022	103.03	-	-	3708.69
				12/19/2022	103.06	-	-	3708.66
				03/17/2023	103.17	-	-	3708.55
				06/16/2023	103.85	-	-	3707.87
				09/18/2023	104.40	-	-	3707.32
				12/18/2023	104.73	-	-	3706.99
				03/11/2024	104.43	-	-	3707.29
				06/11/2024	104.80	-	-	3706.92
				09/16/2024	105.50	-	-	3706.22
				12/12/2024	105.58	-	-	3706.14

Table 1 - Groundwater Gauging and NAPL Thickness - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-17	3810.57	71	92.7	03/21/2016	DR	-	-	-
2"				06/16/2016	PA	-	-	-
MW-17A	3810.63	75	120	07/12/2016	93.40	-	-	3717.23
2"				09/13/2016	94.00	-	-	3716.63
				11/29/2016	94.32	-	-	3716.31
				03/13/2017	93.76	-	-	3716.87
				06/07/2017	93.33	-	-	3717.30
				09/18/2017	95.08	-	-	3715.55
				12/13/2017	95.01	-	-	3715.62
				03/23/2018	95.04	-	-	3715.59
				06/13/2018	95.71	-	-	3714.92
				09/25/2018	96.68	-	-	3713.95
				12/12/2018	96.66	-	-	3713.97
				03/21/2019	96.39	-	-	3714.24
				06/13/2019	96.77	-	-	3713.86
				09/18/2019	97.62	-	-	3713.01
				12/08/2019	97.31	-	-	3713.32
				03/11/2020	96.85	-	-	3713.78
				05/01/2020	97.41	-	-	3713.22
				06/05/2020	97.75	-	-	3712.88
				09/23/2020	98.60	-	-	3712.03
				12/09/2020	98.96	-	-	3711.67
				03/10/2021	99.01	-	-	3711.62
				06/11/2021	99.48	-	-	3711.15
				09/14/2021	100.02	-	-	3710.61
				12/13/2021	100.41	-	-	3710.22
				03/18/2022	100.40	-	-	3710.23
				06/20/2022	100.94	-	-	3709.69
				09/19/2022	101.78	-	-	3708.85
				12/19/2022	101.85	-	-	3708.78
				03/17/2023	101.99	-	-	3708.64
				06/16/2023	102.44	-	-	3708.19
				09/18/2023	103.15	-	-	3707.48
				12/18/2023	103.50	-	-	3707.13
				03/11/2024	103.21	-	-	3707.42
				06/11/2024	103.56	-	-	3707.07
				09/16/2024	104.25	-	-	3706.38
				12/12/2024	104.35	-	-	3706.28
MW-18A	3809.46	84	114	03/21/2016	92.56	-	-	3716.90
2"				06/16/2016	93.08	-	-	3716.38
				09/13/2016	93.98	-	-	3715.48
				11/29/2016	93.58	-	-	3715.88
				03/13/2017	93.28	-	-	3716.18
				06/07/2017	94.08	-	-	3715.38
				09/18/2017	95.14	-	-	3714.32
				12/13/2017	94.70	-	-	3714.76
				03/23/2018	94.81	-	-	3714.65
				06/13/2018	95.54	-	-	3713.92
				09/25/2018	96.91	-	-	3712.55
				12/12/2018	96.25	-	-	3713.21
				03/21/2019	95.84	-	-	3713.62
				06/13/2019	96.61	-	-	3712.85
				09/18/2019	97.72	-	-	3711.74
				12/08/2019	96.86	-	-	3712.60
				03/11/2020	96.27	-	-	3713.19
				05/01/2020	97.17	-	-	3712.29
				06/05/2020	97.80	-	-	3711.66
				09/23/2020	98.85	-	-	3710.61
				12/09/2020	98.92	-	-	3710.54
				03/10/2021	98.75	-	-	3710.71
				06/11/2021	99.23	-	-	3710.23
				09/14/2021	100.14	-	-	3709.32
				12/13/2021	100.35	-	-	3709.11
				03/18/2022	100.22	-	-	3709.24
				06/20/2022	100.99	-	-	3708.47
				09/19/2022	102.05	-	-	3707.41
				12/19/2022	101.78	-	-	3707.68
				03/17/2023	101.76	-	-	3707.70
				06/16/2023	102.26	-	-	3707.20
				09/18/2023	103.46	-	-	3706.00
				12/18/2023	103.45	-	-	3706.01
				03/11/2024	102.97	-	-	3706.49
				06/11/2024	103.66	-	-	3705.80
				09/16/2024	104.34	-	-	3705.12
				12/12/2024	104.02	-	-	3705.44

Table 1 - Groundwater Gauging and NAPL Thickness - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-19 4"	3811.05	75	120	06/16/2016	94.18	-	-	3716.87
				09/13/2016	99.15	94.23	4.92	3716.01
				11/29/2016	97.58	94.31	3.27	3716.20
				03/13/2017	99.20	94.05	5.15	3716.15
				06/07/2017	97.61	94.76	2.85	3715.82
				09/18/2017	101.00	95.11	5.89	3714.97
				12/13/2017	99.30	95.24	4.06	3715.14
				03/23/2018	98.08	95.49	2.59	3715.13
				06/13/2018	100.97	95.96	5.01	3714.26
				09/25/2018	100.01	97.31	2.70	3713.29
				12/12/2018	98.90	97.30	1.60	3713.49
				03/21/2019	100.81	96.43	4.38	3713.90
				06/13/2019	101.23	96.99	4.24	3713.36
				09/18/2019	102.49	97.92	4.57	3712.38
				12/08/2019	101.33	97.48	3.85	3712.93
				03/11/2020	100.75	97.05	3.70	3713.39
				05/01/2020	102.53	97.45	5.08	3712.76
				06/08/2020	101.70	98.05	3.65	3712.40
				09/23/2020	104.75	98.75	6.00	3711.31
				12/10/2020	103.50	99.32	4.18	3711.04
				03/10/2021	105.58	98.97	6.61	3710.99
				06/11/2021	105.47	99.29	6.18	3710.74
				09/15/2021	111.10	100.08	11.02	3709.15
				12/13/2021	107.02	100.36	6.66	3709.59
				03/18/2022	106.35	100.40	5.95	3709.67
				06/20/2022	107.50	100.90	6.60	3709.06
				09/19/2022	108.05	101.41	6.64	3708.54
				12/19/2022	107.50	101.98	5.52	3708.16
				03/17/2023	107.29	102.00	5.29	3708.18
				06/16/2023	OB	-	-	-
				09/18/2023	109.00	103.42	5.58	3706.71
				12/18/2023	OB	-	-	-
				03/11/2024	OB	-	-	-
				06/11/2024	OB	-	-	-
				09/16/2024	OB	-	-	-
				12/12/2024	106.59	105.01	1.58	3705.78
MW-20 2"	3810.00	75	114	07/12/2016	92.95	-	-	3717.05
				09/13/2016	93.57	-	-	3716.43
				11/29/2016	93.54	-	-	3716.46
				03/13/2017	93.27	-	-	3716.73
				06/07/2017	93.89	-	-	3716.11
				09/18/2017	94.68	-	-	3715.32
				12/13/2017	94.63	-	-	3715.37
				03/23/2018	94.58	-	-	3715.42
				06/13/2018	95.27	-	-	3714.73
				09/25/2018	96.02	-	-	3713.98
				12/12/2018	96.21	-	-	3713.79
				03/21/2019	95.87	-	-	3714.13
				06/13/2019	96.31	-	-	3713.69
				09/18/2019	97.19	-	-	3712.81
				12/08/2019	96.78	-	-	3713.22
				03/11/2020	96.31	-	-	3713.69
				05/01/2020	96.92	-	-	3713.08
				06/05/2020	97.30	-	-	3712.70
				09/23/2020	98.20	-	-	3711.80
				12/09/2020	98.51	-	-	3711.49
				03/10/2021	98.52	-	-	3711.48
				06/11/2021	99.03	-	-	3710.97
				09/14/2021	99.59	-	-	3710.41
				12/13/2021	100.00	-	-	3710.00

Table 1 - Groundwater Gauging and NAPL Thickness - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-21	3809.06	75	109	07/12/2016	92.65	-	-	3716.41
2"				09/13/2016	93.25	-	-	3715.81
				11/29/2016	93.00	-	-	3716.06
				03/13/2017	92.68	-	-	3716.38
				06/07/2017	93.45	-	-	3715.61
				09/18/2017	94.41	-	-	3714.65
				12/13/2017	94.06	-	-	3715.00
				03/23/2018	94.15	-	-	3714.91
				06/13/2018	94.87	-	-	3714.19
				09/25/2018	95.94	-	-	3713.12
				12/12/2018	95.60	-	-	3713.46
				03/21/2019	95.27	-	-	3713.79
				06/13/2019	95.91	-	-	3713.15
				09/18/2019	96.97	-	-	3712.09
				12/08/2019	96.23	-	-	3712.83
				03/11/2020	95.66	-	-	3713.40
				05/01/2020	96.50	-	-	3712.56
				06/05/2020	96.93	-	-	3712.13
				09/23/2020	98.05	-	-	3711.01
				12/09/2020	98.21	-	-	3710.85
				03/10/2021	98.18	-	-	3710.88
				06/11/2021	98.61	-	-	3710.45
				09/14/2021	99.36	-	-	3709.70
				12/13/2021	99.65	-	-	3709.41
				03/18/2022	99.57	-	-	3709.49
				06/20/2022	100.25	-	-	3708.81
				09/19/2022	101.24	-	-	3707.82
				12/19/2022	101.08	-	-	3707.98
				03/17/2023	101.11	-	-	3707.95
				06/16/2023	101.60	-	-	3707.46
				09/18/2023	102.68	-	-	3706.38
				12/18/2023	102.73	-	-	3706.33
				03/11/2024	102.30	-	-	3706.76
				06/11/2024	102.90	-	-	3706.16
				09/16/2024	103.60	-	-	3705.46
				12/12/2024	103.36	-	-	3705.70

Specific Gravity = 0.835

Notes:
DR = Well DR
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
CS Caylor
Lea County, NM
SRS#: 2002-10250

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-6A	03/22/2016	**0.0693**	0.00910	0.000400 J	0.00500	-
	06/16/2016	0.00130	<0.000621	<0.000763	<0.000256	-
	09/13/2016	0.00140	<0.000621	<0.000763	<0.000256	-
	11/29/2016	**0.0148**	<0.00100	<0.000657	<0.000642	-
	03/14/2017	**0.0241**	0.00205	<0.000657	<0.000630	0.0262
	06/07/2017	**0.652**	0.0551	0.0304	0.0354	0.773
	09/19/2017	**0.235 X**	0.0231	0.00911	0.00926	0.276
	12/19/2017	**0.0699**	0.00436	0.00227	0.00517	0.0817
	03/27/2018	<0.000408	0.000750 J	<0.000657	<0.000630	0.000750 J
	06/13/2018	**0.0329**	0.00300	0.00110	0.000800 J	0.0378
	09/28/2018	**0.0522**	0.00423	<0.000657	0.00201	0.0584
	12/12/2018	**0.163**	0.0139	0.0090	0.0147	0.201
	03/22/2019	**0.0748**	0.0113	0.00389	0.00551	0.0955
	06/18/2019	0.00490	<0.000512	<0.000616	<0.00027	0.00490
	09/19/2019	0.00329	<0.002	<0.002	<0.002	0.00329
	12/10/2019	0.000620	<0.000367	<0.000657	<0.000630	0.000620
	03/13/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/09/2020	0.00169 J	<0.000367	<0.000657	<0.000630	0.00169 J
	09/24/2020	0.00367	<0.000367	<0.000657	<0.000630	0.00367
	12/10/2020	0.00364	0.000880 J	<0.002000	0.000940 J	0.005460
	03/12/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/15/2021	**0.08408**	<0.00200	<0.00200	0.000702 J	0.00285 J
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/22/2022	<0.000408	<0.000367	<0.000657	0.000781 J	0.000781 J
	06/21/2022	0.00178 J	0.000492 J	<0.000657	<0.000642	0.00227 J
	09/23/2022	0.00243	<0.000367	<0.000657	<0.000642	0.00243 J
	12/27/2022	0.000741 J	<0.000367	<0.000657	<0.000642	0.000741 J
	03/22/2023	<0.000408	0.000622 J	<0.000657	<0.000642	<0.000657
	06/21/2023	<0.00500	<0.00500	<0.00500	<0.00500	-
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00100	0.000800
	12/20/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/13/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/13/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/17/2024	**0.0538**	<0.00100	<0.00100	0.00131	0.0551
	12/13/2024	**0.0131**	<0.00100	<0.00100	<0.00100	0.0131
MW-8A	03/22/2016	**0.0799**	0.0304	0.00380	0.0138	-
	06/16/2016	0.00950	0.00210	<0.000763	0.00110	-
	09/13/2016	**0.0171**	0.00250	<0.000763	0.00140	-
	11/29/2016	**0.0190**	0.00464	<0.000657	<0.000642	-
	03/14/2017	**0.0220**	0.00785	0.00221	0.00462	0.0367
	06/07/2017	**0.0281**	0.00902	0.00165 J	0.00465	0.0434
	09/19/2017	**0.0398**	0.00721	0.000980 J	0.00324	0.0512
	12/19/2017	**0.0162**	0.00517	0.000690 J	0.00266	0.0247
	03/27/2018	0.00332	0.00187 J	<0.000657	0.000720 J	0.00591
	06/13/2018	0.00300	<0.000512	<0.000616	<0.000270	0.00300
	09/28/2018	**0.0363**	0.00535	<0.000657	0.00296	0.0446
	12/12/2018	**0.0135**	0.003	0.001 J	0.0022	0.0197
	03/23/2019	**0.0303**	0.00174	0.00229	0.00188	0.0362
	06/17/2019	**0.0259**	0.00410	<0.000616	0.00450	0.0345
	09/19/2019	**0.0519**	0.00919	<0.002	0.00491	0.0660
	12/10/2019	0.00226	0.000380	<0.000657	<0.000630	0.00264
	03/12/2020	0.00550	<0.000512	<0.000616	0.000900 J	0.00640
	06/08/2020	**0.0252**	0.00782	<0.000657	0.00550	0.0385
	09/23/2020	**0.0495**	0.0121	<0.000657	0.00754	0.0691
	12/10/2020	**0.0378**	0.00923	0.000890 J	0.00654	0.05446
	03/12/2021	**0.0943**	0.0341	0.00133 J	0.0603	0.190
	06/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/15/2021	**0.488 *1**	0.202	0.00982	0.198	0.975
	03/21/2022	**0.0817**	0.0235	0.00123 J	0.0683	0.175

Table 2 - Groundwater Analytical Data - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

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-9A	03/22/2016	**0.147**	0.000700 J	0.00590	0.00170	-
	06/16/2016	**0.0400**	<0.000621	0.00160	0.000300 J	-
	09/13/2016	**0.0382**	<0.00329	<0.00404	<0.00136	-
	11/29/2016	**0.106**	0.00332	0.00406	0.00244	-
	03/14/2017	**0.381**	<0.000367	0.0186	0.00401	0.404
	06/07/2017	**0.394**	0.00412	0.0123	0.00456	0.415
	09/19/2017	**0.253**	0.00110 J	0.00623	0.00164 J	0.262
	12/19/2017	**0.0404**	<0.000367	0.000800 J	0.00115 J	0.0424
	03/27/2018	**0.0168**	0.00117 J	<0.000657	<0.000630	0.0180
	06/13/2018	0.00710	<0.000512	<0.000616	<0.000270	0.00710
	09/28/2018	**0.0160**	<0.000367	<0.000657	<0.000630	0.0160
	12/12/2018	**0.0607**	<0.000512	0.0018	0.0005 J	0.0630
	03/23/2019	**0.0205**	<0.0005	<0.0005	<0.0005	0.0205
	06/18/2019	**0.0322**	<0.000512	0.00200	<0.00027	0.0342
	09/18/2019	**0.276**	<0.002	0.00849	<0.002	0.284
	12/10/2019	0.00517	0.000540	<0.000657	<0.000630	0.00571
	03/12/2020	0.00180	<0.000512	<0.000616	<0.000270	0.00180
	06/08/2020	0.000890 J	<0.000367	<0.000657	<0.000630	0.000890 J
	12/10/2020	0.00196 J	0.000610 J	<0.002000	<0.002000	0.002570
	03/12/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/15/2021	0.00747	0.00343	<0.00200	0.00430	0.0152
	03/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/20/2022	0.000694 J	0.000461 J	<0.000657	<0.000642	0.00116 J
	09/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/22/2023	<0.000408	0.000769 J	<0.000657	<0.000642	0.000769 J
	08/23/2023	<0.00100	<0.00100	<0.00100	<0.00100	0.000800
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/18/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/11/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/11/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-10A	03/22/2016	**0.0227**	0.00650	<0.000238	0.00540	-
	06/16/2016	0.00160	<0.000621	<0.000763	<0.000256	-
	09/13/2016	0.00200	<0.000621	<0.000763	<0.000256	-
	11/29/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/14/2017	**0.0144**	0.00338	<0.000657	0.00373	0.0215
	06/07/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408
	09/19/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/27/2018	0.000850 J	<0.000367	<0.000657	<0.000630	0.000850 J
	06/13/2018	**0.0129**	<0.000512	<0.000616	<0.000270	0.0129
	09/28/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/12/2018	0.0018	<0.000512	<0.000616	<0.00027	0.0018
	03/22/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	06/17/2019	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	09/18/2019	<0.002	<0.002	<0.002	<0.002	<0.002
	12/11/2019	0.000550	<0.000367	<0.000657	<0.000630	0.000550
	03/13/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/09/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/24/2020	0.00140 J	<0.000367	0.000730 J	0.000970 J	0.00310
	12/10/2020	<0.002000	<0.002000	<0.002000	<0.002000	<0.0020000
	03/12/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	**0.0136**	0.000542 J	<0.00200	<0.00400	0.0141
	09/15/2021	0.00146 J	0.000720 J	<0.00200	0.000819 J	0.00300 J
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/22/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/20/2023	<0.000408	0.000371 J	<0.000657 *1	<0.000642 *1	<0.000657
	06/20/2023	<0.00500	<0.00500	<0.00500	<0.00500	-
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/19/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/12/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/12/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/16/2024	0.00501	<0.00100	<0.00100	<0.00100	0.00501
	12/12/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 2 - Groundwater Analytical Data - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

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-11A	03/22/2016	0.000400 J	0.000500 J	<0.000238	0.000800 J	-
	06/16/2016	0.00200	<0.000621	<0.000763	<0.000256	-
	09/13/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	11/29/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/07/2017	**0.0159**	0.00110 J	<0.000657	<0.000642	0.0170
	09/19/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408
	12/19/2017	0.00432	<0.000367	<0.000657	<0.000630	0.00432
	03/27/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/12/2018	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	03/23/2019	**0.0156**	0.000860	0.00315	0.00101	0.0206
	09/19/2019	<0.002	<0.002	<0.002	<0.002	<0.002
	12/11/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/13/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/09/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/24/2020	0.00400	<0.000367	<0.000657	<0.000630	0.00400
	12/10/2020	0.00154 J	0.00107 J	0.000950 J	0.000880 J	0.004440
	03/12/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/21/2022	0.00134 J	<0.000367	<0.000657	0.000759 J	0.00210 J
	06/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/22/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/22/2023	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/20/2023	<0.00500	<0.00500	<0.00500	<0.00500	-
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/19/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/13/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/13/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/17/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/12/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-12A	03/22/2016	**4.46**	0.0159 J	0.195	0.233	-
	09/13/2016	**5.70**	<0.0329	0.208	0.179	-
	11/29/2016	**12.8**	<0.0500	0.539	0.327	-
	03/14/2017	**11.8**	<0.0367	0.539	<0.0630	12.3
	06/07/2017	**26.4**	<0.100	**0.985**	0.473	27.9
	09/19/2017	**16.2 D**	0.0427	0.597 D	0.253	17.1
	12/19/2017	**5.34 D**	0.0260	0.217	0.123	5.71
	03/27/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2018	**6.35**	<0.0512	0.260	<0.0270	6.61
	09/28/2018	**19.7 D**	0.159	0.65 D	0.289	20.8
	12/12/2018	**12.2**	0.045 J	0.475	0.39	13.1
	03/22/2019	**23.5**	0.106	**1.22**	**1.09**	25.9
	06/17/2019	**19.2**	0.115	**0.815**	**0.715**	20.8
	03/21/2022	**1.67 B**	**5.63 B**	0.0986	0.136	7.53
	08/24/2023	**3.63**	0.00575	0.324	0.531	4.49

Table 2 - Groundwater Analytical Data - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

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-13A	03/22/2016	0.000700 J	<0.000238	<0.000238	<0.000243	-
	06/16/2016	0.00210	<0.000621	<0.000763	<0.000256	-
	09/13/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	11/29/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/07/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408
	09/19/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/27/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/28/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/12/2018	0.0064	0.0006 J	<0.000616	<0.00027	0.007
	03/22/2019	**0.0294**	0.0109	0.00234	0.00791	0.0506
	06/18/2019	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	09/19/2019	<0.002	<0.002	<0.002	<0.002	<0.002
	12/11/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/13/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/09/2020	0.00225	0.00216	<0.000657	<0.000630	0.00441
	09/24/2020	0.00395	<0.000367	<0.000657	<0.000630	0.00395
	12/10/2020	0.00117 J	0.000740 J	0.000830 J	0.00180 J	0.004540
	03/12/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/15/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/22/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/22/2023	<0.000408	0.000951 J	<0.000657	<0.000642	0.000951 J
	08/24/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/20/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/20/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/14/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/11/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/17/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/12/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14A	03/22/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	06/16/2016	0.00370	<0.000621	<0.000763	<0.000256	-
	09/13/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	11/29/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/07/2017	0.000860 J	0.00127 J	<0.000657	0.00197 J	0.00410
	09/19/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/27/2018	0.00166 J	<0.000367	<0.000657	<0.000630	0.00166 J
	06/13/2018	0.00120	<0.000512	<0.000616	<0.000270	0.00120
	09/28/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/12/2018	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	03/23/2019	**0.0169**	0.000560	0.00438	0.00562	0.0275
	06/17/2019	**0.0392**	0.00340	0.00150	<0.00027	0.0441
	09/19/2019	<0.002	<0.002	<0.002	<0.002	<0.002
	12/10/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/13/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/09/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/24/2020	0.00247	<0.000367	<0.000657	<0.000630	0.00247
	12/10/2020	0.00140 J	0.000680 J	<0.002000	0.000720 J	0.002800
	03/12/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/15/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/22/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/22/2023	<0.000408	0.00112 J	<0.000657	<0.000642	0.00112 J
	08/23/2023	<0.00100	<0.00100	<0.00100	<0.00100	0.000790
	09/20/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/18/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/14/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/11/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/17/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/12/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 2 - Groundwater Analytical Data - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

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-15A	07/12/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	09/13/2016	0.00130	<0.000621	<0.000763	<0.000256	-
	11/29/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/07/2017	0.000770 J	<0.00100	<0.000657	<0.000642	0.000770 J
	09/19/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/27/2018	0.00253	0.000770 J	<0.000657	<0.000630	0.00330
	06/13/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/28/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/12/2018	**0.264**	0.0081	0.0177	0.0114	0.301
	03/23/2019	**0.0223**	0.000600	0.00613	0.00246	0.0315
	06/18/2019	0.00450	<0.000512	<0.000616	<0.00027	0.00450
	09/19/2019	<0.002	<0.002	<0.002	<0.002	<0.002
	12/10/2019	0.000930	0.000380	<0.000657	<0.000630	0.00131
	03/13/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/09/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/24/2020	0.00670	<0.000367	<0.000657	<0.000630	0.00670
	12/10/2020	0.00238	0.000550 J	0.00168 J	0.00226	0.006870
	03/12/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/15/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/22/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/22/2023	<0.000408	0.000880 J	<0.000657	<0.000642	0.000880 J
	08/23/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/20/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/20/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/14/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/11/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/17/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/12/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-16A	07/12/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	09/13/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	11/29/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/14/2017	0.00319	<0.000367	<0.000657	<0.000630	0.00319
	06/07/2017	0.000840 J	<0.00100	<0.000657	<0.000642	0.000840 J
	09/19/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/27/2018	0.00182 J	0.000740 J	<0.000657	<0.000630	0.00256
	06/13/2018	0.00100 J	<0.000512	<0.000616	<0.000270	0.00100 J
	09/28/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/12/2018	**0.13**	0.0041	0.0111	0.0068	0.152
	03/23/2019	**0.0261**	0.00236	0.00578	0.00312	0.0374
	06/17/2019	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	09/19/2019	<0.002	<0.002	<0.002	<0.002	<0.002
	12/10/2019	0.00227	<0.000367	<0.000657	<0.000630	0.00227
	03/13/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/08/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/23/2020	0.00817	0.000990 J	<0.000657	<0.000630	0.00916
	12/10/2020	0.000990 J	<0.002000	<0.002000	0.000810 J	0.001800 J
	03/12/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/15/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/22/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/27/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/22/2023	<0.000408	0.000657 J	<0.000657	<0.000642	0.000657 J
	08/23/2023	0.00210	<0.00100	0.0226	0.0208	0.0455
	09/20/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/18/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/14/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/11/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/17/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/12/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 2 - Groundwater Analytical Data - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

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-17A	07/12/2016	0.000800 J	<0.000621	<0.000763	<0.000256	-
	09/13/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	11/29/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/14/2017	0.00224	<0.000367	<0.000657	<0.000630	0.00224
	06/07/2017	0.000440 J	<0.00100	<0.000657	<0.000642	0.000440 J
	09/19/2017	0.00117 J	<0.00100	<0.000657	<0.000630	0.00117 J
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/27/2018	0.00185 JXF	0.000600 J	<0.000657	<0.000630	0.00245
	06/13/2018	0.00180	<0.000512	<0.000616	<0.000270	0.00180
	09/28/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/12/2018	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	03/23/2019	**0.0161**	0.000540	0.00388	0.00157	0.0221
	06/17/2019	<0.00048	0.00170	<0.000616	<0.00027	0.00170
	09/19/2019	<0.002	<0.002	<0.002	<0.002	<0.002
	12/10/2019	0.000680	0.000530	<0.000657	<0.000630	0.00121
	03/12/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/08/2020	0.00751	0.00342	<0.000657	0.00308	0.0140
	09/23/2020	0.00892	0.00149 J	<0.000657	<0.000630	0.0104
	12/11/2020	0.00245	<0.002000	0.00110 J	0.000950 J	0.004500
	03/12/2021	0.00119 J	<0.00200	<0.00200	<0.00400	0.00119 J
	06/14/2021	0.000820 J	<0.00200	<0.00200	<0.00400	0.000820 J
	09/15/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/21/2022	<0.000408	0.000426 J	<0.000657	<0.000642	<0.000657
	06/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/27/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/22/2023	<0.000408	0.00103 J	<0.000657	<0.000642	0.00103 J
	08/23/2023	0.00499	<0.00100	0.0599	0.0534	0.118
	09/20/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/18/2023	<0.00100	<0.00100	<0.00100	<0.00100	0.000730
	03/14/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/11/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/17/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/12/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18A	03/22/2016	0.00150	<0.000238	<0.000238	<0.000243	-
	06/16/2016	0.00190	<0.000621	<0.000763	<0.000256	-
	09/13/2016	0.00120	<0.000621	<0.000763	<0.000256	-
	11/29/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/07/2017	0.00142 J	<0.00100	<0.000657	<0.000642	0.00142 J
	09/19/2017	0.00114 J	<0.00100	<0.000657	<0.000630	0.00114 J
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/27/2018	0.00171 J	<0.000367	<0.000657	<0.000630	0.00171 J
	06/13/2018	**0.0620**	0.00100 J	0.00540	0.00130	0.0697
	09/28/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/12/2018	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	03/23/2019	**0.0467**	0.00206	0.00615	0.00266	0.0576
	06/17/2019	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	09/19/2019	<0.002	<0.002	<0.002	<0.002	<0.002
	12/11/2019	0.00116	0.000370	<0.000657	<0.000630	0.00153
	03/13/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/09/2020	0.000760 J	0.000980 J	<0.000657	0.00118 J	0.00292
	09/24/2020	0.00297	<0.000367	<0.000657	<0.000630	0.00297
	12/10/2020	0.00103 J	0.00134 J	0.000750 J	0.00219	0.005310
	03/12/2021	<0.00200	<0.00200 N1	<0.00200 N1	<0.00400	<0.00200
	06/14/2021	<0.00200	0.000405 J	<0.00200	0.00125 J	0.00166 J
	09/15/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/20/2022	<0.000408	0.000598 J	<0.000657	<0.000642	<0.000657
	09/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/22/2023	<0.000408	0.000761 J	<0.000657	<0.000642	0.000761 J
	08/24/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/20/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/18/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/11/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/11/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/17/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/12/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 2 - Groundwater Analytical Data - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

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	07/12/2016	**0.0364**	0.00851	0.000840 J	0.04491	-
	09/13/2016	**0.382**	0.0478	0.00590	0.00630	-
	11/29/2016	**0.244**	0.0262	0.00378	0.00620	-
	03/14/2017	**0.306**	0.0177	<0.000657	<0.000630	0.324
	06/07/2017	**0.0449**	0.00532	<0.000657	<0.000642	0.0502
	09/19/2017	**1.89 D**	0.221	0.0252	0.0223	2.16
	12/19/2017	**0.275**	0.00877	0.0163	0.00765	0.308
	03/27/2018	**0.0896**	0.00241	0.00594	0.00103 J	0.0990
	06/13/2018	**0.496**	<0.00256	0.00650	<0.00135	0.503
	09/28/2018	**0.0455**	<0.000367	0.00333	0.00277	0.0516
	12/12/2018	**0.155**	0.0032	0.0086	0.002	0.169
	03/23/2019	**0.0614**	<0.0005	0.00444	0.00106	0.0669
	06/18/2019	**0.0968**	0.00160	0.000900	<0.00027	0.0993
	09/19/2019	**0.353**	0.00435	0.0283	<0.002	0.386
	12/10/2019	**0.102**	0.000650	<0.000657	<0.000630	0.103
	03/12/2020	**0.0153**	<0.000512	<0.000616	<0.000270	0.0153
	06/08/2020	**0.0382**	0.00121 J	<0.000657	<0.000630	0.0394
	09/23/2020	**0.0627**	0.00198 J	0.00228	<0.000630	0.0670
	12/10/2020	**0.0556**	0.0139	0.00318	0.00428	0.07696
	03/12/2021	**0.00277**	<0.00200	<0.00200	<0.00400	0.00277
	09/15/2021	**0.0506**	<0.00200	<0.00200	<0.00400	0.0506
	12/14/2021	**0.0991 F1**	0.00104 J	<0.00200	0.000979 J	0.101
MW-21	07/12/2016	<0.340	<0.350	<0.260	<0.480	-
	09/13/2016	**0.136**	0.00890	0.0134	0.0168	-
	11/29/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/07/2017	0.00649	<0.00100	<0.000657	<0.000642	0.00649
	09/19/2017	0.00156 J	<0.00100	<0.000657	<0.000630	0.00156 J
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/27/2018	0.00138 J	<0.000367	<0.000657	<0.000630	0.00138 J
	06/13/2018	**0.0233**	<0.000512	0.00400	0.000800 J	0.0281
	09/28/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/12/2018	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	03/22/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	06/17/2019	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	09/19/2019	<0.002	<0.002	<0.002	<0.002	<0.002
	12/11/2019	0.000890	0.000500	<0.000657	<0.000630	0.00139
	03/13/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/09/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/24/2020	0.00347	<0.000367	<0.000657	<0.000630	0.00347
	12/10/2020	0.00112 J	0.000710 J	<0.002000	<0.00200	0.001830 J
	03/12/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	<0.00200	0.000371 J	0.000906 J	0.00211 J	0.00339 J
	09/15/2021	0.000860 J	<0.00200	<0.00200	<0.00400	0.000860 J
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/21/2022	<0.000408	<0.000367	<0.000657	0.000721 J	0.000721 J
	06/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/21/2023	<0.000408	<0.000367	<0.000657 *1	<0.000642 *1	<0.000657
	06/20/2023	<0.00500	<0.00500	<0.00500	<0.00500	-
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/19/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	03/12/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	06/12/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/16/2024	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/12/2024	<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 Standard

Table 3 - Groundwater Analytical Data - Historical - PAH Supplement
CS Caylor
Lea County, New Mexico
SRS#: 2002-10250

Sample ID	Date Sampled	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno (1,2,3-c,d) pyrene	Naphthalene	Phenanthrene	Pyrene
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)		
NMWQCC - Groundwater		-	-	-	-	0.001	-	0.0007	0.001	-	0.001	-	-	-	0.001	0.001	-	0.030	0.001	0.001
MW-6A	11/29/2016	-	-	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250
	03/22/2022	-	-	<0.000101	<0.0000847	<0.0000905	<0.000135	<0.0000574	<0.0000704	<0.000114	<0.000117	<0.000157	<0.0000764	<0.000101	<0.000158	<0.000102	<0.0000918	<0.0000977	<0.0000855	<0.000131
	03/22/2023	-	-	<0.0000987	<0.0000831	<0.0000889	<0.000132	<0.0000564	<0.0000691	<0.000112	<0.0001150	<0.000154	<0.0000750	<0.0000987	<0.000155	<0.0000997	<0.0000902	<0.0000960	<0.0000839	<0.000128
	03/13/2024	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018
MW-9A	11/29/2016	-	-	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	0.000104	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250
	03/27/2018	-	-	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	0.000475	0.000168 J	<0.000108
	03/23/2019	-	-	<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	<0.0000045	<0.0000055	<0.0000092
	03/12/2020	-	-	<0.000107	<0.0000903	<0.0000929	<0.000144	<0.0000612	<0.0000762	<0.000121	<0.000125	<0.000167	<0.0000815	-	<0.000169	<0.000108	<0.0000979	<0.000104	<0.0000912	<0.000140
MW-10A	03/22/2022	-	-	<0.0000986	<0.0000830	<0.0000887	<0.000132	<0.0000563	<0.0000690	<0.000111	<0.000114	<0.000154	<0.0000749	<0.0000986	<0.000155	<0.0000996	<0.0000900	<0.0000958	<0.0000838	<0.000128
	03/20/2023	-	-	<0.000103	<0.0000867	<0.0000927	<0.000138	<0.0000588	<0.0000721	<0.000116	<0.000119	<0.000161	<0.0000783	<0.000103	<0.000162	<0.000104	<0.0000940	<0.000100	<0.0000875	<0.000134
	03/12/2024	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011
MW-11A	03/22/2023	-	-	<0.0000980	<0.0000825	<0.0000882	<0.000131	<0.0000560	<0.0000686	<0.000111	<0.000114	<0.000153	<0.0000745	<0.0000980	<0.000154	<0.0000990	<0.0000895	<0.0000953	<0.0000833	<0.000127
	03/13/2024	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011
MW-12A	03/22/2016	-	-	<0.0000332	<0.0000581	<0.0000321	<0.0000721	<0.0000418	<0.0000710	<0.0000519	<0.0000561	<0.0000811	<0.0000562	0.000492	<0.0000638	<0.0000788	<0.0000537	0.00165	0.000335	<0.0000415
	11/29/2016	-	-	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	0.00233	<0.0000250	0.000921	<0.0000250	0.021 D	0.00107	<0.0000250
	03/21/2022	-	-	<0.0000989	<0.0000833	<0.0000890	<0.000133	<0.0000565	<0.0000692	<0.000112	<0.000115	<0.000154	<0.0000752	0.000467	<0.000155	<0.0000999	<0.0000903	0.00432	0.000225	<0.000129
MW-13A	03/21/2022	-	-	<0.0000896	<0.0000754	<0.0000806	<0.000120	<0.0000511	<0.0000627	<0.000101	<0.000104	<0.000140	<0.0000681	<0.0000896	<0.000141	<0.0000905	<0.0000818	<0.0000871	<0.0000761	<0.000116
	03/22/2023	-	-	<0.0000975	<0.0000821	<0.0000878	<0.000131	<0.0000557	<0.0000683	<0.000110	<0.000113	<0.000152	<0.0000741	<0.0000975	<0.000153	<0.0000985	<0.0000890	<0.0000948	<0.0000829	<0.000127
	03/14/2024	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097
MW-14A	03/22/2022	-	-	<0.0000989	<0.0000833	<0.0000890	<0.000133	<0.0000565	<0.0000692	<0.000112	<0.000115	<0.000154	<0.0000752	<0.0000989	<0.000155	<0.0000999	<0.0000903	<0.0000962	<0.0000841	<0.000129
	03/22/2023	-	-	<0.0000989	<0.0000833	<0.0000890	<0.000133	<0.0000565	<0.0000692	<0.000112	<0.000115	<0.000154	<0.0000752	<0.0000989	<0.000155	<0.0000999	<0.0000903	<0.0000962	<0.0000841	<0.000129
	03/14/2024	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
MW-15A	07/12/2016	-	-	<0.0000350	<0.0000612	<0.0000338	<0.0000759	<0.0000440	<0.0000748	<0.0000546	<0.0000591	<0.0000854	<0.0000592	<0.0000639	<0.0000672	<0.0000830	<0.0000565	<0.0000691	<0.0000543	<0.0000437
	03/27/2018	-	-	<0.000109	<0.000109	<0.000109	0.000229	0.000175 J	0.000213	0.000195	0.000146 J	0.000214	0.000143 J	<0.000109	0.000191	<0.000109	0.000155 J	<0.000109	<0.000109	0.000202
	03/23/2019	-	-	<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	0.0000873	<0.0000056	<0.0000094
	03/13/2020	-	-	<0.0000996	<0.0000839	<0.0000863	<0.000134	<0.0000569	<0.0000708	<0.000113	<0.000116	<0.000156	<0.0000757	-	<0.000157	<0.000100	<0.000091	<0.0000969	<0.0000848	<0.000130
MW-16A	07/12/2016	-	-	<0.0000332	<0.0000581	<0.0000321	<0.0000721	<0.0000418	<0.0000710	<0.0000519	<0.0000561	<0.0000811	<0.0000562	<0.0000607	<0.0000638	<0.0000788	<0.0000537	<0.0000656	<0.0000516	<0.0000415
	03/27/2018	-	-	<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	<0.000109	<0.000109	<0.000109
	03/23/2019	-	-	<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	0.000276	<0.0000055	<0.0000092
	03/13/2020	-	-	<0.0000986	<0.0000830	<0.0000854	<0.000133	<0.0000563	<0.0000701	<0.000112	<0.000115	<0.000154	<0.0000749	-	<0.000155	<0.0000993	<0.0000900	<0.0000959	<0.0000838	<0.000128
MW-17A	07/12/2016	-	-	<0.0000330	<0.0000578	<0.0000319	<0.0000717	<0.0000416	<0.0000706	<0.0000516	<0.0000558	<0.0000807	<0.0000559	<0.0000604	<0.0000635	<0.0000784	<0.0000534	<0.0000653	<0.0000513	<0.0000413
	03/27/2018	-	-	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107
	03/23/2019	-	-	<0.0000040	<0.0000072	<0.0000075	<0.0000063	<0.0000095	<0.0000090	<0.0000079	<0.0000077	<0.0000087	<0.0000049	<0.0000052	<0.0000089	<0.0000054	<0.0000049	0.0000284	<0.0000055	<0.0000091
	03/21/2022	-	-	<0.0000987	<0.0000831	<0.0000889	0.000206	0.000302	0.000335	0.000629	0.000578	0.000421	<0.0000750	<0.0000987	<0.000155	<0.0000997	<0.0000902	0.000245 J	<0.0000839	<0.000128
	03/22/2023	-	-	<0.000101	<0.0000848	<0.0000907	<0.000135	<0.0000575	<0.0000705	<0.000114	<0.000117	<0.000157	<0.0000766	<0.000101	<0.000158	<0.000102	<0.0000920	<0.0000979	<0.0000856	<0.000131
	03/14/2024	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
MW-18A	03/22/2016	-	-	<0.0000332	<0.0000581	<0.0000321	<0.0000721	<0.0000418	<0.0000710	<0.0000519	<0.0000561	<0.0000811	<0.0000562	0.000200	<0.0000638	<0.0000788	<0.0000537	<0.0000656	<0.0000516	<0.0000415
	03/27/2018	-	-	<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	<0.000109	0.000301	<0.000109
	03/23/2019	-	-	<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	0.000308	0.0000268	<0.0000093
	03/13/2020	-	-	<0.000103	<0.0000869	<0.0000894	<0.000139	<0.0000589	<0.0000734	<0.000117	<0.000120	<0.000161	<0.0000785	-	<0.000162	<0.000104	<0.0000943	<0.0001000	<0.0000878	<0.000135
MW-20	07/12/2016	-	-	<0.000921	<0.000911	<0.000902	<0.000843	<0.00114	<0.00123	<0.00105	<0.000706	<0.000823	<0.00105	<0.000813	<0.000745	<0.000853	<0.00110	<0.000843	<0.000960	<0.000931
	03/27/2018	-	-	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108
	03/23/2019	-	-	<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	<0.0000045	<0.0000055	<0.0000092
MW-21	07/12/2016	-	-	<0.000931	<0.000921	<0.000911	<0.000851	<0.00115	<0.00125	0.00134 J	<0.000713	<0.000832	<0.00106	<0.000822	<0.000752	<0.000861	<0.00111	<0.000851	<0.000970	<0.000940
	03/21/2022	-	-	<0.0000998	<0.0000840	<0.0000898	<0.000134	<0.0000570	<0.0000699	<0.000113	<0.000116	<0.000156	<0.0000759	<0.0000998	<0.000157	<0.000101	<0.0000911	<0.0000970	<0.0000848	<0.000130
	03/21/2023	-	-	<0.000100	<0.0000844	<0.0000902	<0.000134	<0.0000572	<0.0000701	<0.000113	<0.000116	<0.000156	<0.0000761	<0.000100	<0.000157	<0.000101	<0.0000915	<0.0000974	<0.0000852	<0.000130
	03/12/2024	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010

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

Analyte concentration exceeds the standard for:
NMOCD - Groundwater

Table 4 - Groundwater Analytical Data - Historical - MNA Supplement
CS Caylor
Lea County, New Mexico
SRS#: 2002-10250

Sample ID	Date Sampled	Methane (mg/L)*	Ferrous Iron (mg/L)	Manganese (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Phenolphthalein Alkalinity (mg/L)	Bicarbonate Alkalinity (mg/L)	Hydroxide Alkalinity (mg/L)	Carbonate Alkalinity (mg/L)	Alkalinity (mg/L)	Sulfate (mg/L)	Nitrate as N (mg/L)
MW-6A	12/14/2021	<5.00	<0.0500 HF	0.0122	-	-	<4.00	254	<4.00	<4.00	254	52.3	1.93
	03/22/2022	<0.453	<0.0280 HF	0.0174	-	-	<4.00	303	<4.00	<4.00	303	53.5	1.86
	06/21/2022	4.93 J	0.0400 J HF	0.0687 B	-	-	<4.00	337	<4.00	<4.00	337	47.7	1.60
	09/23/2022	0.635 J	0.0300 J HF	0.00654	-	-	<4.00	318	<4.00	<4.00	318	44.6	1.45
	12/27/2022	0.457 J	0.0800	0.0318	-	-	<4.00	354	<4.00	<4.00	354	50.0	1.77
	03/22/2023	<0.453	0.110 HF	0.0154	-	-	<4.00	339	<4.00	<4.00	339	54.7	1.45 H
	06/21/2023	<500	<0.200	0.00650	<1.00	<1.00	-	<10.0	<10.0	<10.0	350	52.1	1.98
	09/19/2023	0.875	3.58	0.0373	<0.00100	<0.00100	-	<10.0	<10.0	<10.0	340	42.2	1.36
	12/20/2023	<5.00	<0.200	<0.00500	<1.00	<1.00	-	<10.0	<10.0	<10.0	150	55.8	1.71
	03/13/2024	0.000634	0.258	0.0116	<0.00100	<0.00100	-	<10.0	<10.0	<10.0	345	48.3	<0.200
	06/13/2024	0.00104	<0.200	0.00862	<0.00100	<0.00100	-	79.0	<10.0	<10.0	79.0	59.1	1.82
	09/17/2024	0.00296	<0.200	0.0152	<0.00100	<0.00100	-	314	<10.0	<10.0	314	51.5	2.46
	12/13/2024	0.00172	<0.200	0.00758	<0.00100	<0.00100	-	290	<10.0	<10.0	290	68.7	1.62
MW-10A	12/14/2021	0.796 J	<0.0500 HF	0.00665	-	-	<4.00	375	<4.00	<4.00	375	52.2	0.979
	03/22/2022	0.627 J	0.0700	0.0186	-	-	<4.00	398	<4.00	<4.00	398	57.9	1.27
	06/20/2022	1.07 J	0.0500	0.0180	-	-	<4.00	352	<4.00	<4.00	352	73.0	1.77
	09/20/2022	<0.453	1.48	0.0294	-	-	<4.00	263	<4.00	<4.00	263	81.9	2.18
	12/20/2022	0.658 J	1.87	0.111	-	-	<4.00	262	<4.00	<4.00	262	81.7	2.16
	03/20/2023	<0.453	0.0700 HF	0.00803	-	-	<4.00	227	<4.00	<4.00	227	84.0	2.53 H
	06/20/2023	0.679	0.369	0.0189	<0.00100	<0.00100	-	-	-	-	219	81.4	2.12
	09/19/2023	0.956	1.15	0.0738	<0.00100	<0.00100	-	<10.0	<10.0	<10.0	130	67.1	1.96
	12/19/2023	<5.00	<0.200	0.0135	<1.00	<1.00	-	<10.0	<10.0	<10.0	1500	105	1.78
	03/12/2024	0.000620	0.305	0.0137	<0.00100	<0.00100	-	<10.0	<10.0	<10.0	138	44.4	1.01
	06/12/2024	0.00107	0.576	0.0291	<0.00100	<0.00100	-	58.0	<10.0	<10.0	58.0	63.7	1.58
	09/16/2024	0.00106	<0.200	0.00534	<0.00100	<0.00100	-	286	<10.0	<10.0	286	41.2	2.23
	12/12/2024	0.000965	<0.200	0.0106	<0.00100	<0.00100	-	-	-	-	286	66.8	1.64
MW-11A	12/14/2021	<5.00	<0.0500 HF	0.0168	-	-	<4.00	243	<4.00	<4.00	243	89.5	1.63
	06/20/2022	1.62 J	0.0400 J HF	0.0235 B	-	-	<4.00	298	<4.00	<4.00	298	83.2	1.33
	09/20/2022	<0.453	0.0600	0.00999	-	-	<4.00	273	<4.00	<4.00	273	85.7	1.17
	12/20/2022	<0.453	0.400	0.0579	-	-	<4.00	289	<4.00	<4.00	289	80.1	1.27 H
	03/22/2023	<0.453	0.750 HF	0.0459	-	-	<4.00	289	<4.00	<4.00	289	80.4	1.19 H
	09/19/2023	0.706	0.270	0.00930	<0.00100	<0.00100	-	<10.0	<10.0	<10.0	230	68.7	1.20
	12/19/2023	<5.00	<0.200	0.0103	<1.00	<1.00	-	<10.0	<10.0	<10.0	160	74.2	1.55
	03/13/2024	<0.000500	<0.200	<0.00500	<0.00100	<0.000100	-	<10.0	<10.0	<10.0	225	53.1	<0.200
	06/13/2024	0.00125	0.488	0.0106	<0.00100	<0.00100	-	70.0	<10.0	<10.0	70.0	63.6	1.38
	09/17/2024	0.00149	<0.200	<0.00500	<0.00100	<0.00100	-	370	<10.0	<10.0	370	45.0	2.24
	12/12/2024	0.00141	<0.200	0.00667	<0.00100	<0.00100	-	-	-	-	344	80.2	2.10
MW-20	07/12/2016	-	-	0.312	-	-	-	159	<20.0	<20.0	159	55.5	1.55
MW-21	07/12/2016	-	-	0.039	-	-	-	206	<20.0	<20.0	206	109	2.39
	03/22/2022	<0.453	0.0500	0.0839	-	-	<4.00	306	<4.00	<4.00	306	69.9	1.58 H
	06/20/2022	1.90 J	0.0300 J HF	0.0892 B	-	-	<4.00	283	<4.00	<4.00	283	71.0	1.27
	09/20/2022	<0.453	0.860	0.103	-	-	<4.00	277	<4.00	<4.00	277	68.7	1.52
	12/20/2022	<0.453	2.87	0.207	-	-	<4.00	298	<4.00	<4.00	298	65.8	1.38 H
	03/21/2023	<0.453	1.64 HF	0.211	-	-	<4.00	258	<4.00	<4.00	258	69.1	1.34
	06/20/2023	0.838	<0.200	0.301	<0.00100	<0.00100	-	-	-	-	295	58.6	0.641
	09/19/2023	0.704	<0.200	0.324	<0.00100	<0.00100	-	<10.0	<10.0	<10.0	260	51.8	0.678
	12/19/2023	<5.00	<0.200	0.519	<1.00	<1.00	-	<10.0	<10.0	<10.0	270	68.0	1.71
	03/12/2024	0.000748	<0.200	0.307	<0.00100	<0.00100	-	<10.0	<10.0	<10.0	345	114	1.54
	06/12/2024	0.000541	<0.200	0.342	<0.00100	<0.00100	-	65.0	<10.0	<10.0	65.0	63.0	1.37
	09/16/2024	0.00134	<0.200	0.267	<0.00100	<0.00100	-	298	<10.0	<10.0	298	42.4	1.98
	12/12/2024	0.00147	<0.200	0.261	<0.00100	<0.00100	-	-	-	-	303	63.4	1.32

Notes:
Lab Flags noted next to values. See lab report for description.
(mg/L)* Data prior to 2024 reported in µg/L

APPENDIX C

Laboratory Analytical Data Reports and Chain of Custody Documentation

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

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: CS CAYLOR

Project Number: SRS#2002-10250

Location: Lovington Hwy, NM

Lab Order Number: 4C13012

Current Certification

Report Date: 04/29/24

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-10A	4C13012-01	Water	03/12/24 10:50	03-13-2024 09:49
MW-21	4C13012-02	Water	03/12/24 12:21	03-13-2024 09:49
MW-9A	4C13012-03	Water	03/11/24 12:03	03-13-2024 09:49
MW-18A	4C13012-04	Water	03/11/24 12:36	03-13-2024 09:49

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-10A

4C13012-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/13/24 10:44	03/13/24 20:24	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/13/24 10:44	03/13/24 20:24	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 20:24	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 20:24	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 20:24	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 20:24	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 20:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.9 %*	*80-120*		*P4C1309*	*03/13/24 10:44*	*03/13/24 20:24*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P4C1309*	*03/13/24 10:44*	*03/13/24 20:24*	*EPA 8021B*	
Ethane	ND	0.00100	mg/L	1	P4D0406	03/18/24 15:21	03/18/24 15:21	8015M	
Ethene	ND	0.00100	mg/L	1	P4D0406	03/18/24 15:21	03/18/24 15:21	8015M	
Methane	**0.000620**	0.000500	mg/L	1	P4D0406	03/18/24 15:21	03/18/24 15:21	8015M	
General Chemistry Parameters by EPA / Standard Methods									
Total Alkalinity	**138**	10.0	mg/L	1	P4C2608	04/15/24 13:44	04/15/24 13:44	EPA 310.1M	
Carbonate Alkalinity	ND	10.0	mg/L	1	P4C2608	04/15/24 13:44	04/15/24 13:44	EPA 310.1M	
Bicarbonate Alkalinity	ND	10.0	mg/L	1	P4C2608	04/15/24 13:44	04/15/24 13:44	EPA 310.1M	
Hydroxide Alkalinity	ND	10.0	mg/L	1	P4C2608	04/15/24 13:44	04/15/24 13:44	EPA 310.1M	
Nitrate as N	**1.01**	0.200	mg/L	1	P4C1911	03/14/24 10:32	03/19/24 21:36	EPA 300.0	
Sulfate	**44.4**	10.0	mg/L	10	P4C2014	03/20/24 15:58	03/22/24 01:38	EPA 300.0	
Dissolved Metals by EPA / Standard Methods									
Iron	**0.305**	0.200	mg/L	1	P4D0406	03/19/24 08:00	03/19/24 11:45	EPA 6020A	
Manganese	**0.0137**	0.00500	mg/L	1	P4D0406	03/19/24 08:00	03/19/24 11:45	EPA 6020A	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-10A

4C13012-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
PAH compounds by Semivolatile GCMS									
1-Methylnaphthalene	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	
2-Methylnaphthalene	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	
Acenaphthene	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	
Acenaphthylene	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	
Anthracene	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	
Benzo (a) anthracene	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	
Benzo (a) pyrene	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	
Benzo (b) fluoranthene	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	
Benzo (g,h,i) perylene	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	
Benzo (k) fluoranthene	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	
Chrysene	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	
Dibenzo (a,h) anthracene	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	
Dibenzofuran	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	
Fluoranthene	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	
Fluorene	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	
Indeno (1,2,3-cd) pyrene	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	
Naphthalene	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	
Phenanthrene	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	
Pyrene	ND	0.00011	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:29	8270C	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

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4C13012-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/13/24 10:44	03/13/24 20:47	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/13/24 10:44	03/13/24 20:47	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 20:47	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 20:47	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 20:47	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 20:47	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 20:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.2 %*	*80-120*		*P4C1309*	*03/13/24 10:44*	*03/13/24 20:47*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*100 %*	*80-120*		*P4C1309*	*03/13/24 10:44*	*03/13/24 20:47*	*EPA 8021B*	
Ethane	ND	0.00100	mg/L	1	P4D0406	03/18/24 15:08	03/18/24 15:08	8015M	
Ethene	ND	0.00100	mg/L	1	P4D0406	03/18/24 15:08	03/18/24 15:08	8015M	
Methane	**0.000748**	0.000500	mg/L	1	P4D0406	03/18/24 15:08	03/18/24 15:08	8015M	
General Chemistry Parameters by EPA / Standard Methods									
Total Alkalinity	**345**	10.0	mg/L	1	P4C2608	04/15/24 13:44	04/15/24 13:44	EPA 310.1M	
Carbonate Alkalinity	ND	10.0	mg/L	1	P4C2608	04/15/24 13:44	04/15/24 13:44	EPA 310.1M	
Bicarbonate Alkalinity	ND	10.0	mg/L	1	P4C2608	04/15/24 13:44	04/15/24 13:44	EPA 310.1M	
Hydroxide Alkalinity	ND	10.0	mg/L	1	P4C2608	04/15/24 13:44	04/15/24 13:44	EPA 310.1M	
Nitrate as N	**1.54**	0.200	mg/L	1	P4C1911	03/14/24 10:32	03/19/24 21:55	EPA 300.0	
Sulfate	**114**	10.0	mg/L	10	P4C2014	03/20/24 15:58	03/22/24 01:58	EPA 300.0	
Dissolved Metals by EPA / Standard Methods									
Iron	ND	0.200	mg/L	1	P4D0406	03/19/24 08:00	03/18/24 15:21	EPA 6020A	
Manganese	**0.307**	0.307	mg/L	1	P4D0406	03/19/24 08:00	03/18/24 15:21	EPA 6020A	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-21

4C13012-02 (Water)

Permian Basin Environmental Lab, L.P.

PAH compounds by Semivolatile GCMS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	
2-Methylnaphthalene	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	
Acenaphthene	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	
Acenaphthylene	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	
Anthracene	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	
Benzo (a) anthracene	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	
Benzo (a) pyrene	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	
Benzo (b) fluoranthene	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	
Benzo (g,h,i) perylene	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	
Benzo (k) fluoranthene	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	
Chrysene	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	
Dibenzo (a,h) anthracene	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	
Dibenzofuran	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	
Fluoranthene	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	
Fluorene	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	
Indeno (1,2,3-cd) pyrene	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	
Naphthalene	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	
Phenanthrene	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	
Pyrene	ND	0.00010	mg/L	1	P4D0406	03/19/24 08:00	03/20/24 19:49	8270C	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

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4C13012-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/13/24 10:44	03/13/24 21:10	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/13/24 10:44	03/13/24 21:10	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 21:10	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 21:10	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 21:10	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 21:10	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 21:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.9 %*	*80-120*		*P4C1309*	*03/13/24 10:44*	*03/13/24 21:10*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P4C1309*	*03/13/24 10:44*	*03/13/24 21:10*	*EPA 8021B*	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-18A

4C13012-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/13/24 10:44	03/13/24 21:33	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/13/24 10:44	03/13/24 21:33	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 21:33	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 21:33	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 21:33	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 21:33	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C1309	03/13/24 10:44	03/13/24 21:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.1 %*	*80-120*		*P4C1309*	*03/13/24 10:44*	*03/13/24 21:33*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*102 %*	*80-120*		*P4C1309*	*03/13/24 10:44*	*03/13/24 21:33*	*EPA 8021B*	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4C1309 - * DEFAULT PREP *****										
Blank (P4C1309-BLK1)				Prepared & Analyzed: 03/13/24						
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	*0.102*		*"*	*0.120*		*85.1*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*99.9*	*80-120*			
LCS (P4C1309-BS1)				Prepared & Analyzed: 03/13/24						
Benzene	0.113	0.00100	mg/L	0.100		113	80-120			
Toluene	0.0957	0.00100	"	0.100		95.7	80-120			
Ethylbenzene	0.0953	0.00100	"	0.100		95.3	80-120			
Xylene (p/m)	0.188	0.00200	"	0.200		93.8	80-120			
Xylene (o)	0.0884	0.00100	"	0.100		88.4	80-120			
Surrogate: 4-Bromofluorobenzene	*0.102*		*"*	*0.120*		*84.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
LCS Dup (P4C1309-BSD1)				Prepared & Analyzed: 03/13/24						
Benzene	0.103	0.00100	mg/L	0.100		103	80-120	8.50	20	
Toluene	0.0879	0.00100	"	0.100		87.9	80-120	8.44	20	
Ethylbenzene	0.0883	0.00100	"	0.100		88.3	80-120	7.68	20	
Xylene (p/m)	0.176	0.00200	"	0.200		88.2	80-120	6.14	20	
Xylene (o)	0.0843	0.00100	"	0.100		84.3	80-120	4.70	20	
Surrogate: 4-Bromofluorobenzene	*0.104*		*"*	*0.120*		*86.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.120*		*101*	*80-120*			
Calibration Blank (P4C1309-CCB1)				Prepared & Analyzed: 03/13/24						
Benzene	0.200		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.230		"							
Xylene (p/m)	0.350		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.104*		*"*	*0.120*		*87.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4C1309 - * DEFAULT PREP *****										
Calibration Blank (P4C1309-CCB2)				Prepared & Analyzed: 03/13/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.190		"							
Xylene (p/m)	0.410		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.107*		*"*	*0.120*		*89.1*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
Calibration Blank (P4C1309-CCB3)				Prepared & Analyzed: 03/13/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.220		"							
Xylene (p/m)	0.350		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.105*		*"*	*0.120*		*87.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.4*	*80-120*			
Calibration Check (P4C1309-CCV1)				Prepared & Analyzed: 03/13/24						
Benzene	0.116	0.00100	mg/L	0.100		116	80-120			
Toluene	0.0988	0.00100	"	0.100		98.8	80-120			
Ethylbenzene	0.0908	0.00100	"	0.100		90.8	80-120			
Xylene (p/m)	0.188	0.00200	"	0.200		94.0	80-120			
Xylene (o)	0.0918	0.00100	"	0.100		91.8	80-120			
Surrogate: 4-Bromofluorobenzene	*0.102*		*"*	*0.120*		*85.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
Calibration Check (P4C1309-CCV2)				Prepared & Analyzed: 03/13/24						
Benzene	0.120	0.00100	mg/L	0.100		120	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.0977	0.00100	"	0.100		97.7	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120			
Xylene (o)	0.0995	0.00100	"	0.100		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0994*		*"*	*0.120*		*82.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.2*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4C1309 - * DEFAULT PREP *****										
Calibration Check (P4C1309-CCV3)				Prepared & Analyzed: 03/13/24						
Benzene	0.117	0.00100	mg/L	0.100		117	80-120			
Toluene	0.0996	0.00100	"	0.100		99.6	80-120			
Ethylbenzene	0.0923	0.00100	"	0.100		92.3	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.6	80-120			
Xylene (o)	0.0951	0.00100	"	0.100		95.1	80-120			
Surrogate: 4-Bromofluorobenzene	*0.102*		*"*	*0.120*		*85.1*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.120*		*101*	*80-120*			
Matrix Spike (P4C1309-MS1)		**Source: 4C08015-01**		Prepared & Analyzed: 03/13/24						
Benzene	0.122	0.00100	mg/L	0.100	ND	122	80-120			QM-05
Toluene	0.104	0.00100	"	0.100	ND	104	80-120			
Ethylbenzene	0.103	0.00100	"	0.100	ND	103	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200	ND	102	80-120			
Xylene (o)	0.0972	0.00100	"	0.100	ND	97.2	80-120			
Surrogate: 4-Bromofluorobenzene	*0.104*		*"*	*0.120*		*86.3*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.121*		*"*	*0.120*		*101*	*80-120*			
Matrix Spike Dup (P4C1309-MSD1)		**Source: 4C08015-01**		Prepared & Analyzed: 03/13/24						
Benzene	0.121	0.00100	mg/L	0.100	ND	121	80-120	0.784	20	QM-05
Toluene	0.102	0.00100	"	0.100	ND	102	80-120	1.54	20	
Ethylbenzene	0.103	0.00100	"	0.100	ND	103	80-120	0.631	20	
Xylene (p/m)	0.203	0.00200	"	0.200	ND	101	80-120	0.762	20	
Xylene (o)	0.0961	0.00100	"	0.100	ND	96.1	80-120	1.14	20	
Surrogate: 4-Bromofluorobenzene	*0.103*		*"*	*0.120*		*85.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.121*		*"*	*0.120*		*101*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

General Chemistry Parameters by EPA / Standard Methods - 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 P4C1911 - * DEFAULT PREP *****										
Blank (P4C1911-BLK1)				Prepared: 03/08/24 Analyzed: 03/19/24						
Nitrate as N	ND	0.200	mg/L							
LCS (P4C1911-BS1)				Prepared: 03/08/24 Analyzed: 03/19/24						
Nitrate as N	21.8		mg/L	20.0		109	90-110			
LCS Dup (P4C1911-BSD1)				Prepared: 03/08/24 Analyzed: 03/19/24						
Nitrate as N	21.8		mg/L	20.0		109	90-110	0.00918	10	
Calibration Check (P4C1911-CCV1)				Prepared: 03/08/24 Analyzed: 03/19/24						
Nitrate as N	21.8		mg/L	20.0		109	90-110			
Calibration Check (P4C1911-CCV2)				Prepared: 03/08/24 Analyzed: 03/19/24						
Nitrate as N	21.2		mg/L	20.0		106	90-110			
Matrix Spike (P4C1911-MS1)		**Source: 4C07008-01**		Prepared: 03/08/24 Analyzed: 03/19/24						
Nitrate as N	32.7		mg/L	20.0	0.890	159	80-120			QM-05
Matrix Spike (P4C1911-MS2)		**Source: 4C13009-05**		Prepared: 03/14/24 Analyzed: 03/19/24						
Nitrate as N	23.6		mg/L	20.0	0.125	118	80-120			
Matrix Spike Dup (P4C1911-MSD1)		**Source: 4C07008-01**		Prepared: 03/08/24 Analyzed: 03/19/24						
Nitrate as N	32.4		mg/L	20.0	0.890	158	80-120	0.833	20	QM-05
Matrix Spike Dup (P4C1911-MSD2)		**Source: 4C13009-05**		Prepared: 03/14/24 Analyzed: 03/19/24						
Nitrate as N	23.7		mg/L	20.0	0.125	118	80-120	0.401	20	
Batch P4C2014 - * DEFAULT PREP *****										
Blank (P4C2014-BLK1)				Prepared: 03/20/24 Analyzed: 03/21/24						
Sulfate	ND	1.00	mg/L							

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

General Chemistry Parameters by EPA / Standard Methods - 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 P4C2014 - * DEFAULT PREP *****										
LCS (P4C2014-BS1)				Prepared: 03/20/24 Analyzed: 03/21/24						
Sulfate	17.9		mg/L	18.0		99.7	90-110			
LCS Dup (P4C2014-BSD1)				Prepared: 03/20/24 Analyzed: 03/21/24						
Sulfate	18.0		mg/L	18.0		100	90-110	0.489	10	
Calibration Check (P4C2014-CCV1)				Prepared: 03/20/24 Analyzed: 03/21/24						
Sulfate	17.6		mg/L	18.0		97.8	90-110			
Calibration Check (P4C2014-CCV2)				Prepared: 03/20/24 Analyzed: 03/21/24						
Sulfate	17.7		mg/L	18.0		98.2	90-110			
Matrix Spike (P4C2014-MS1)		**Source: 4C07008-01**		Prepared: 03/20/24 Analyzed: 03/21/24						
Sulfate	107		mg/L	100	9.66	97.7	80-120			
Matrix Spike (P4C2014-MS2)		**Source: 4C13009-05**		Prepared: 03/20/24 Analyzed: 03/22/24						
Sulfate	107		mg/L	100	7.37	99.8	80-120			
Matrix Spike Dup (P4C2014-MSD1)		**Source: 4C07008-01**		Prepared: 03/20/24 Analyzed: 03/21/24						
Sulfate	108		mg/L	100	9.66	98.7	80-120	0.915	20	
Matrix Spike Dup (P4C2014-MSD2)		**Source: 4C13009-05**		Prepared: 03/20/24 Analyzed: 03/22/24						
Sulfate	107		mg/L	100	7.37	99.9	80-120	0.0270	20	
Batch P4C2608 - * DEFAULT PREP *****										
Blank (P4C2608-BLK1)				Prepared & Analyzed: 04/15/24						
Total Alkalinity	ND	10.0	mg/L							
Carbonate Alkalinity	ND	10.0	"							
Bicarbonate Alkalinity	ND	10.0	"							
Hydroxide Alkalinity	ND	10.0	"							

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

General Chemistry Parameters by EPA / Standard Methods - 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 P4C2608 - * DEFAULT PREP *****										
LCS (P4C2608-BS1)				Prepared & Analyzed: 04/15/24						
Total Alkalinity	217		mg/L	250		86.8	80-120			
Carbonate Alkalinity	ND	10.0	"				80-120			
Bicarbonate Alkalinity	ND	10.0	"				80-120			
Hydroxide Alkalinity	ND	10.0	"				80-120			
Duplicate (P4C2608-DUP1)		**Source: 4C13012-01**		Prepared & Analyzed: 04/15/24						
Total Alkalinity	222	10.0	mg/L		138			46.7	20	
Carbonate Alkalinity	ND	10.0	"		ND				20	
Bicarbonate Alkalinity	ND	10.0	"		ND				20	
Hydroxide Alkalinity	ND	10.0	"		ND				20	

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
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: 4/29/2024

Brent Barron, Laboratory Director/Technical Director

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

Project Name: CS Caylor
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10250
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 4C13012

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 1005	TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	MNA Parameters	PAH	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
							5	5	1	3				1		GW				X	X	X		X
1	MW-10A			3-12-24	10:50		11	11	1	6				4		GW				X	X	X		X
2	MW-21			3-12-24	12:21		11	11	1	6				4		GW				X	X	X		X
3	MW-9A			3-11-24	12:03		3	3		3						GW				X				X
4	MW-18A			3-11-24	12:36		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	3-12-24	12:42	Jose Bueno	03/12/24	12:43
Jose Bueno	3-12-24	16:42			
			Received by PBEL: Mona Bledsoe	3/12/24	16:42

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: 4.8 °C Thermometer: NCF
Adjusted: °C Factor: L3

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

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235

PBELAB_SUB_COC_V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name: PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: X Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

ORDER #:

LAB # (lab use only)		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly 1	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	$Na_2S_2O_3$	NONE 500 POLY	NONE 3 AMBER VOAA VIALS	Matrix (DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other)	Analyze For: Mn DISS ICP-MS 6020A	Fe DISS ICP-MS 6020A	RSKSOP 175 PPM	8270C PAH LL										24 HOUR RUSH	STANDARD
	4C13012-01			3/12/2024	10:50	Y	8	X	X	X					X	W	X	X	X	X											X
	4C13012-02			3/12/2024	12:21	Y	8	X	X	X					X	W	X	X	X	X											X

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron					
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

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: °C		
Adjusted: °C Factor		

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

March 19, 2024

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS24030719**

Laboratory Results for: **4C13021**

Dear Brent Barron,

ALS Environmental received 1 sample(s) on Feb 28, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Anna Kinchen
Project Manager

ALS Houston, US

Date: 19-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13021
Work Order: HS24030719

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24030719-01	4C13021	Soil		28-Feb-2024 13:20	14-Mar-2024 09:30	☐

ALS Houston, US Date: 19-Mar-24

Client: Permian Basin Environmental Lab, LP **CASE NARRATIVE**
Project: 4C13021
Work Order: HS24030719

Metals by Method SW7470A

Batch ID: 209037

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW1311/6020

Batch ID: 208924

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 19-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13021
Sample ID: 4C13021
Collection Date: 28-Feb-2024 13:20

ANALYTICAL REPORT
WorkOrder:HS24030719
Lab ID:HS24030719-01
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP METALS BY SW6020A		**Method:SW1311/6020**	Leache:SW1311 / 15-Mar-2024	Prep:SW3010A / 15-Mar-2024		Analyst: MSC
Antimony	ND		0.0500	mg/L	1	16-Mar-2024 00:43
Arsenic	ND		0.0500	mg/L	1	16-Mar-2024 00:43
Barium	**0.611**		**0.200**	**mg/L**	1	16-Mar-2024 00:43
Beryllium	ND		0.0200	mg/L	1	16-Mar-2024 00:43
Cadmium	ND		0.0500	mg/L	1	16-Mar-2024 00:43
Chromium	ND		0.0500	mg/L	1	16-Mar-2024 00:43
Lead	ND		0.0500	mg/L	1	16-Mar-2024 00:43
Nickel	ND		0.0500	mg/L	1	16-Mar-2024 00:43
Selenium	ND		0.0500	mg/L	1	16-Mar-2024 00:43
Silver	ND		0.0500	mg/L	1	16-Mar-2024 00:43
TCLP MERCURY BY SW7470A		**Method:SW7470A**	Leache:SW1311 / 15-Mar-2024	Prep:SW7470A / 19-Mar-2024		Analyst: JS
Mercury	ND		0.000200	mg/L	1	19-Mar-2024 14:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 19-Mar-24

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP
Project: 4C13021
WorkOrder: HS24030719

Batch ID: 208876 **Start Date:** 14 Mar 2024 15:00 **End Date:** 14 Mar 2024 15:00
Method: TCLP MERCURY EXTRACTION BY SW1311 **Prep Code:** 1311LHG EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24030719-01		100 (grams)	2000 (mL)	20	4-oz glass, Neat

Batch ID: 208878 **Start Date:** 14 Mar 2024 15:00 **End Date:** 14 Mar 2024 15:00
Method: TCLP METALS EXTRACTION BY SW1311 **Prep Code:** 1311LM EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24030719-01		100 (grams)	2000 (mL)	20	4-oz glass, Neat

Batch ID: 208924 **Start Date:** 15 Mar 2024 10:00 **End Date:** 15 Mar 2024 10:00
Method: TCLP LEACHATE DIGESTION BY SW3010A **Prep Code:** 3010A_TCLP

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24030719-01		1 (mL)	10 (mL)	10	4-oz glass, Neat

Batch ID: 209037 **Start Date:** 19 Mar 2024 08:00 **End Date:** 19 Mar 2024 08:00
Method: MERCURY TCLP PREP BY SW7470A **Prep Code:** 1311_HGPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24030719-01		10 (mL)	10 (mL)	1	4-oz glass, Neat

ALS Houston, US Date: 19-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13021
WorkOrder: HS24030719

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 208924 (0)	**Test Name :** TCLP METALS BY SW6020A				**Matrix:** Soil	
HS24030719-01	4C13021	28 Feb 2024 13:20	15 Mar 2024 08:00	15 Mar 2024 10:00	16 Mar 2024 00:43	1
Batch ID: 209037 (0)	**Test Name :** TCLP MERCURY BY SW7470A				**Matrix:** Soil	
HS24030719-01	4C13021	28 Feb 2024 13:20	15 Mar 2024 08:00	19 Mar 2024 08:00	19 Mar 2024 14:22	1

ALS Houston, US Date: 19-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13021
WorkOrder: HS24030719

QC BATCH REPORT

Batch ID: 208924 (0) **Instrument: ICPMS07** **Method: TCLP METALS BY SW6020A**

MBLK Sample ID: **MBLKT2-208877** Units: **mg/L** Analysis Date: **15-Mar-2024 23:44**
Client ID: Run ID: **ICPMS07_461410** SeqNo: **7891796** PrepDate: **15-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	ND	0.0500								
Arsenic	ND	0.0500								
Barium	ND	0.200								
Beryllium	ND	0.0200								
Cadmium	ND	0.0500								
Chromium	ND	0.0500								
Lead	ND	0.0500								
Nickel	ND	0.0500								
Selenium	ND	0.0500								
Silver	ND	0.0500								

MBLK Sample ID: **MBLKT3-208878** Units: **mg/L** Analysis Date: **15-Mar-2024 23:46**
Client ID: Run ID: **ICPMS07_461410** SeqNo: **7891797** PrepDate: **15-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	ND	0.0500								
Arsenic	ND	0.0500								
Barium	ND	0.200								
Beryllium	ND	0.0200								
Cadmium	ND	0.0500								
Chromium	ND	0.0500								
Lead	ND	0.0500								
Nickel	ND	0.0500								
Selenium	ND	0.0500								
Silver	ND	0.0500								

ALS Houston, US Date: 19-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13021
WorkOrder: HS24030719

QC BATCH REPORT

Batch ID: 208924 (0) **Instrument: ICPMS07** **Method: TCLP METALS BY SW6020A**

MBLK Sample ID: **MBLKT1-208891** Units: **mg/L** Analysis Date: **15-Mar-2024 23:42**
Client ID: Run ID: **ICPMS07_461410** SeqNo: **7891795** PrepDate: **15-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	ND	0.0500								
Arsenic	ND	0.0500								
Barium	ND	0.200								
Beryllium	ND	0.0200								
Cadmium	ND	0.0500								
Chromium	ND	0.0500								
Lead	ND	0.0500								
Nickel	ND	0.0500								
Selenium	ND	0.0500								
Silver	ND	0.0500								

MBLK Sample ID: **MBLK-208924** Units: **mg/L** Analysis Date: **15-Mar-2024 23:39**
Client ID: Run ID: **ICPMS07_461410** SeqNo: **7891794** PrepDate: **15-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	ND	0.00500								
Arsenic	ND	0.00500								
Barium	ND	0.0200								
Beryllium	ND	0.00200								
Cadmium	ND	0.00500								
Chromium	ND	0.00500								
Lead	ND	0.00500								
Nickel	ND	0.00500								
Selenium	ND	0.00500								
Silver	ND	0.00500								

LCS Sample ID: **LCS-208924** Units: **mg/L** Analysis Date: **18-Mar-2024 11:52**
Client ID: Run ID: **ICPMS07_461492** SeqNo: **7892264** PrepDate: **15-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04341	0.00500	0.05	0	86.8	80 - 120				
Chromium	0.04573	0.00500	0.05	0	91.5	80 - 120				

ALS Houston, US Date: 19-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13021
WorkOrder: HS24030719

QC BATCH REPORT

Batch ID: 208924 (0) **Instrument: ICPMS07** **Method: TCLP METALS BY SW6020A**

LCS Sample ID: **LCS-208924** Units: **mg/L** Analysis Date: **15-Mar-2024 23:49**
Client ID: Run ID: **ICPMS07_461410** SeqNo: **7891798** PrepDate: **15-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04239	0.00500	0.05	0	84.8	80 - 120				
Barium	0.04398	0.0200	0.05	0	88.0	80 - 120				
Beryllium	0.04408	0.00200	0.05	0	88.2	80 - 120				
Cadmium	0.04384	0.00500	0.05	0	87.7	80 - 120				
Lead	0.0446	0.00500	0.05	0	89.2	80 - 120				
Nickel	0.04362	0.00500	0.05	0	87.2	80 - 120				
Selenium	0.04222	0.00500	0.05	0	84.4	80 - 120				
Silver	0.04772	0.00500	0.05	0	95.4	80 - 120				

MS Sample ID: **HS24030666-01MS** Units: **mg/L** Analysis Date: **16-Mar-2024 00:00**
Client ID: Run ID: **ICPMS07_461410** SeqNo: **7891805** PrepDate: **15-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.4116	0.0500	0.5	0.0004	82.2	80 - 120				
Arsenic	0.4488	0.0500	0.5	0.00416	88.9	80 - 120				
Barium	0.5689	0.200	0.5	0.1341	87.0	80 - 120				
Beryllium	0.4565	0.0200	0.5	0.00012	91.3	80 - 120				
Cadmium	0.4496	0.0500	0.5	0.00003	89.9	80 - 120				
Chromium	0.4058	0.0500	0.5	-0.0001	81.2	80 - 120				
Lead	0.4536	0.0500	0.5	0.00025	90.7	80 - 120				
Nickel	0.4613	0.0500	0.5	0.00815	90.6	80 - 120				
Selenium	0.4438	0.0500	0.5	-0.00077	88.9	80 - 120				
Silver	0.4823	0.0500	0.5	0.00021	96.4	80 - 120				

ALS Houston, US Date: 19-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13021
WorkOrder: HS24030719

QC BATCH REPORT

Batch ID: 208924 (0) **Instrument: ICPMS07** **Method: TCLP METALS BY SW6020A**

MSD Sample ID: **HS24030666-01MSD** Units: **mg/L** Analysis Date: **16-Mar-2024 00:03**
Client ID: Run ID: **ICPMS07_461410** SeqNo: **7891806** PrepDate: **15-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.4394	0.0500	0.5	0.0004	87.8	80 - 120	0.4116	6.55	20	
Arsenic	0.4846	0.0500	0.5	0.00416	96.1	80 - 120	0.4488	7.66	20	
Barium	0.614	0.200	0.5	0.1341	96.0	80 - 120	0.5689	7.62	20	
Beryllium	0.4801	0.0200	0.5	0.00012	96.0	80 - 120	0.4565	5.04	20	
Cadmium	0.4708	0.0500	0.5	0.00003	94.1	80 - 120	0.4496	4.6	20	
Chromium	0.4366	0.0500	0.5	-0.0001	87.3	80 - 120	0.4058	7.31	20	
Lead	0.4842	0.0500	0.5	0.00025	96.8	80 - 120	0.4536	6.53	20	
Nickel	0.4921	0.0500	0.5	0.00815	96.8	80 - 120	0.4613	6.47	20	
Selenium	0.4745	0.0500	0.5	-0.00077	95.1	80 - 120	0.4438	6.69	20	
Silver	0.5005	0.0500	0.5	0.00021	100	80 - 120	0.4823	3.71	20	

PDS Sample ID: **HS24030666-01PDS** Units: **mg/L** Analysis Date: **16-Mar-2024 00:05**
Client ID: Run ID: **ICPMS07_461410** SeqNo: **7891807** PrepDate: **15-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.9645	0.0500	1	0.0004	96.4	75 - 125				
Arsenic	0.948	0.0500	1	0.00416	94.4	75 - 125				
Barium	1.074	0.200	1	0.1341	94.0	75 - 125				
Beryllium	0.9179	0.0200	1	0.00012	91.8	75 - 125				
Cadmium	0.9388	0.0500	1	0.00003	93.9	75 - 125				
Chromium	0.9162	0.0500	1	-0.0001	91.6	75 - 125				
Lead	0.9784	0.0500	1	0.00025	97.8	75 - 125				
Nickel	0.9511	0.0500	1	0.00815	94.3	75 - 125				
Selenium	0.944	0.0500	1	-0.00077	94.5	75 - 125				

ALS Houston, US Date: 19-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13021
WorkOrder: HS24030719

QC BATCH REPORT

Batch ID: 208924 (0) **Instrument: ICPMS07** **Method: TCLP METALS BY SW6020A**

SD Sample ID: **HS24030666-01SD** Units: **mg/L** Analysis Date: **15-Mar-2024 23:58**
Client ID: Run ID: **ICPMS07_461410** SeqNo: **7891802** PrepDate: **15-Mar-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Antimony	ND	0.250					0.0004	0	10	
Arsenic	ND	0.250					0.00416	0	10	
Barium	0.1338	1.00					0.1341	0	10	J
Beryllium	ND	0.100					0.00012	0	10	
Cadmium	ND	0.250					0.00003	0	10	
Chromium	ND	0.250					-0.0001	0	10	
Lead	ND	0.250					0.00025	0	10	
Nickel	ND	0.250					0.00815	0	10	
Selenium	ND	0.250					-0.00077	0	10	
Silver	ND	0.250					0.00021	0	10	

The following samples were analyzed in this batch: HS24030719-01

ALS Houston, US Date: 19-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13021
WorkOrder: HS24030719

QC BATCH REPORT

Batch ID: 209037 (0) **Instrument: HG04** **Method: TCLP MERCURY BY SW7470A**

MBLK Sample ID: **MBLKT2-208875** Units: **mg/L** Analysis Date: **19-Mar-2024 12:29**
Client ID: Run ID: **HG04_461663** SeqNo: **7895404** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								

MBLK Sample ID: **MBLKT4-208890** Units: **mg/L** Analysis Date: **19-Mar-2024 12:33**
Client ID: Run ID: **HG04_461663** SeqNo: **7895406** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								

MBLK Sample ID: **MBLKT6-208828** Units: **mg/L** Analysis Date: **19-Mar-2024 12:36**
Client ID: Run ID: **HG04_461663** SeqNo: **7895408** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								

MBLK Sample ID: **MBLKT8-208816** Units: **mg/L** Analysis Date: **19-Mar-2024 12:40**
Client ID: Run ID: **HG04_461663** SeqNo: **7895410** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								

MBLK Sample ID: **MBLKT9-208962** Units: **mg/L** Analysis Date: **19-Mar-2024 12:47**
Client ID: Run ID: **HG04_461663** SeqNo: **7895413** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								

MBLK Sample ID: **MBLKT7-208618** Units: **mg/L** Analysis Date: **19-Mar-2024 12:38**
Client ID: Run ID: **HG04_461663** SeqNo: **7895409** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								

ALS Houston, US Date: 19-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13021
WorkOrder: HS24030719

QC BATCH REPORT

Batch ID: 209037 (0) **Instrument: HG04** **Method: TCLP MERCURY BY SW7470A**

MBLK Sample ID: **MBLKT5-208876** Units: **mg/L** Analysis Date: **19-Mar-2024 12:35**
Client ID: Run ID: **HG04_461663** SeqNo: **7895407** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								

MBLK Sample ID: **MBLKT3-208943** Units: **mg/L** Analysis Date: **19-Mar-2024 12:31**
Client ID: Run ID: **HG04_461663** SeqNo: **7895405** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								

MBLK Sample ID: **MBLKT1-208545** Units: **mg/L** Analysis Date: **19-Mar-2024 12:28**
Client ID: Run ID: **HG04_461663** SeqNo: **7895403** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								

MBLK Sample ID: **MBLK-209037** Units: **mg/L** Analysis Date: **19-Mar-2024 12:24**
Client ID: Run ID: **HG04_461663** SeqNo: **7895401** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								

LCS Sample ID: **LCS-209037** Units: **mg/L** Analysis Date: **19-Mar-2024 12:26**
Client ID: Run ID: **HG04_461663** SeqNo: **7895402** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00489	0.000200	0.005	0	97.8	80 - 120				

MS Sample ID: **HS24030454-01MS** Units: **mg/L** Analysis Date: **19-Mar-2024 14:12**
Client ID: Run ID: **HG04_461663** SeqNo: **7895427** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00459	0.000200	0.005	0.000001	91.8	75 - 125				

ALS Houston, US Date: 19-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13021
WorkOrder: HS24030719

QC BATCH REPORT

Batch ID: 209037 (0) **Instrument: HG04** **Method: TCLP MERCURY BY SW7470A**

MSD Sample ID: **HS24030454-01MSD** Units: **mg/L** Analysis Date: **19-Mar-2024 14:14**
Client ID: Run ID: **HG04_461663** SeqNo: **7895428** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00437	0.000200	0.005	0.000001	87.4	75 - 125	0.00459	4.91	20	

The following samples were analyzed in this batch: HS24030719-01

ALS Houston, US Date: 19-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13021
WorkOrder: **HS24030719**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
Date	
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L22-90-R2	31-Mar-2024
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-32	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 19-Mar-24

Sample Receipt Checklist

Work Order ID: HS24030719 **Date/Time Received:** 28-Feb-2024 13:20

Client Name: Permian Basin Lab **Received by:** Jacob Coronado

Completed By: /S/ Monica Smith (eSignature) 14-Mar-2024 13:09 (Date/Time) **Reviewed by:** /S/ Anna Kinchen (eSignature) 15-Mar-2024 10:39 (Date/Time)

Matrices: **Soil** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:PBEL COC- No ID
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.2 uc/1.1 c	IR31	
Cooler(s)/Kit(s):	Red		
Date/Time sample(s) sent to storage:	03/14/2024 1310		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235

PBELAB_SUB_COC_V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name: PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: X Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

ORDER #:

Lab # (lab use only)		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly 1	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	$Na_2S_2O_3$	NONE 500 POLY	NONE 3 AMBER VOAA VIALS	Matrix: DW-Drinking Water SL-SiLrge GW-Groundwater S-Soil/Solid NP-Non-Potable Specify Other	Analyze For: Hg TCLP CVAA 7470	Sb TCLP ICP MS 6020A	Ni TCLP ICP-MS 6020A	METALS, RCRA 7 TCLP ICP MS	Be TCLP ICP MS 6020A							24 HOUR RUSH	STANDARD
	4C13021-01			2/28/2024	13:20		1	X								S	X	X	X	X	X							X	

HS24030719

Permian Basin Environmental Lab, LP

4C13021

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron	3/13/24	17:00			
Relinquished by:	Date	Time	Received by: JC 3/14/24 Red 1.2	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

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: °C
Adjusted: °C Factor

ORIGIN ID:MAFA (432) 686-7235
ESGIN BARRON
PSE LAB
400 RANKIN HWY
MIDLAND, TX 79701
UNITED STATES US

SHIP DATE: 13MAR24
ACTWGT: 38.30 LB
CAD: 1011604/INET4530
DIMS: 16x11x3 IN

BILL RECIPIENT

TO SAMPLE RECEIVING
ALS-HOUSTON
10450 STANCLIFF RD
HOUSTON TX 77099
(281) 530-5656 REF
INV:
PO: DEPT:

FedEx Express

J3410439930ov

599J29538KAE3

THU - 14 MAR 5:00P
STANDARD OVERNIGHT

TRK# 7755 3169 3769
0201

77099
TX-US IAH

AB SGRA

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

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: CS CAYLOR

Project Number: SRS#2002-10250

Location: Lovington Hwy, NM

Lab Order Number: 4C13025

Current Certification

Report Date: 04/30/24

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-11A	4C13025-01	Water	03/13/24 09:30	03-13-2024 16:41
MW-6A	4C13025-02	Water	03/13/24 12:21	03-13-2024 16:41

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-11A

4C13025-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/14/24 13:58	03/14/24 17:13	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/14/24 13:58	03/14/24 17:13	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C1407	03/14/24 13:58	03/14/24 17:13	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C1407	03/14/24 13:58	03/14/24 17:13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C1407	03/14/24 13:58	03/14/24 17:13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C1407	03/14/24 13:58	03/14/24 17:13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C1407	03/14/24 13:58	03/14/24 17:13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*87.2 %*	*80-120*		*P4C1407*	*03/14/24 13:58*	*03/14/24 17:13*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P4C1407*	*03/14/24 13:58*	*03/14/24 17:13*	*EPA 8021B*	
Ethane	ND	0.00100	mg/L	1	P4C2607	03/19/24 10:46	03/26/24 08:26	8015M	SUB-13
Ethene	ND	0.000100	mg/L	1	P4C2607	03/19/24 10:46	03/26/24 08:26	8015M	SUB-13
Methane	ND	0.000500	mg/L	1	P4C2607	03/19/24 10:46	03/26/24 08:26	8015M	SUB-13
General Chemistry Parameters by EPA / Standard Methods									
Total Alkalinity	**225**	10.0	mg/L	1	P4C2608	04/15/24 13:44	04/15/24 13:44	EPA 310.1M	
Carbonate Alkalinity	ND	10.0	mg/L	1	P4C2608	04/15/24 13:44	04/15/24 13:44	EPA 310.1M	
Bicarbonate Alkalinity	ND	10.0	mg/L	1	P4C2608	04/15/24 13:44	04/15/24 13:44	EPA 310.1M	
Hydroxide Alkalinity	ND	10.0	mg/L	1	P4C2608	04/15/24 13:44	04/15/24 13:44	EPA 310.1M	
Nitrate as N	ND	0.200	mg/L	1	P4C1911	03/14/24 10:32	03/19/24 22:14	EPA 300.0	
Sulfate	**53.1**	10.0	mg/L	10	P4C2014	03/20/24 15:58	03/22/24 02:17	EPA 300.0	
Dissolved Metals by EPA / Standard Methods									
Iron	ND	0.200	mg/L	1	P4C2607	03/20/24 13:30	03/26/24 08:26	EPA 6020A	SUB-13
Manganese	ND	0.00500	mg/L	1	P4C2607	03/20/24 13:30	03/26/24 08:26	EPA 6020A	SUB-13

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-11A

4C13025-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
PAH compounds by Semivolatile GCMS									
1-Methylnaphthalene	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
2-Methylnaphthalene	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Acenaphthene	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Acenaphthylene	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Anthracene	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Benzo (a) anthracene	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Benzo (a) pyrene	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Benzo (b) fluoranthene	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Benzo (g,h,i) perylene	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Benzo (k) fluoranthene	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Chrysene	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Dibenzo (a,h) anthracene	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Dibenzofuran	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Fluoranthene	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Fluorene	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Indeno (1,2,3-cd) pyrene	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Naphthalene	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Phenanthrene	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Pyrene	ND	0.00011	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-6A

4C13025-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/14/24 13:58	03/14/24 17:36	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/14/24 13:58	03/14/24 17:36	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P4C1407	03/14/24 13:58	03/14/24 17:36	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C1407	03/14/24 13:58	03/14/24 17:36	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C1407	03/14/24 13:58	03/14/24 17:36	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C1407	03/14/24 13:58	03/14/24 17:36	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C1407	03/14/24 13:58	03/14/24 17:36	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*88.0 %*	*80-120*		*P4C1407*	*03/14/24 13:58*	*03/14/24 17:36*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.2 %*	*80-120*		*P4C1407*	*03/14/24 13:58*	*03/14/24 17:36*	*EPA 8021B*	
Ethane	ND	0.00100	mg/L	1	P4C2607	03/19/24 10:58	03/26/24 08:26	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P4C2607	03/19/24 10:58	03/26/24 08:26	8015M	SUB-13
Methane	**0.000634**	0.000500	mg/L	1	P4C2607	03/19/24 10:58	03/26/24 08:26	8015M	SUB-13
General Chemistry Parameters by EPA / Standard Methods									
Total Alkalinity	**345**	10.0	mg/L	1	P4C2608	04/15/24 13:44	04/15/24 13:44	EPA 310.1M	
Carbonate Alkalinity	ND	10.0	mg/L	1	P4C2608	04/15/24 13:44	04/15/24 13:44	EPA 310.1M	
Bicarbonate Alkalinity	ND	10.0	mg/L	1	P4C2608	04/15/24 13:44	04/15/24 13:44	EPA 310.1M	
Hydroxide Alkalinity	ND	10.0	mg/L	1	P4C2608	04/15/24 13:44	04/15/24 13:44	EPA 310.1M	
Nitrate as N	ND	0.200	mg/L	1	P4C1911	03/14/24 10:32	03/19/24 22:34	EPA 300.0	
Sulfate	**48.3**	5.00	mg/L	5	P4C2014	03/20/24 15:58	03/22/24 02:37	EPA 300.0	
Dissolved Metals by EPA / Standard Methods									
Iron	**0.258**	0.200	mg/L	1	P4C2607	03/20/24 13:30	03/26/24 08:26	EPA 6020A	SUB-13
Manganese	**0.0116**	0.00500	mg/L	1	P4C2607	03/20/24 13:30	03/26/24 08:26	EPA 6020A	SUB-13

Talon LPE	Project:	CS CAYLOR
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Midland TX, 79706	Project Manager:	David Adkins

MW-6A

4C13025-02 (Water)

Permian Basin Environmental Lab, L.P.

PAH compounds by Semivolatile GCMS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
2-Methylnaphthalene	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Acenaphthene	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Acenaphthylene	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Anthracene	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Benzo (a) anthracene	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Benzo (a) pyrene	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Benzo (b) fluoranthene	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Benzo (g,h,i) perylene	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Benzo (k) fluoranthene	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Chrysene	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Dibenzo (a,h) anthracene	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Dibenzofuran	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Fluoranthene	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Fluorene	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Indeno (1,2,3-cd) pyrene	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Naphthalene	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Phenanthrene	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13
Pyrene	ND	0.00018	mg/L	1	P4C2607	03/19/24 08:00	03/26/24 08:26	8270C	SUB-13

Talon LPE	Project:	CS CAYLOR
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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 P4C1407 - * DEFAULT PREP *****										
Blank (P4C1407-BLK1)				Prepared & Analyzed: 03/14/24						
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	*0.104*		*"*	*0.120*		*86.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.7*	*80-120*			
LCS (P4C1407-BS1)				Prepared & Analyzed: 03/14/24						
Benzene	0.113	0.00100	mg/L	0.100		113	80-120			
Toluene	0.0977	0.00100	"	0.100		97.7	80-120			
Ethylbenzene	0.0994	0.00100	"	0.100		99.4	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.6	80-120			
Xylene (o)	0.0932	0.00100	"	0.100		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	*0.104*		*"*	*0.120*		*86.3*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.5*	*80-120*			
LCS Dup (P4C1407-BSD1)				Prepared & Analyzed: 03/14/24						
Benzene	0.105	0.00100	mg/L	0.100		105	80-120	7.60	20	
Toluene	0.0904	0.00100	"	0.100		90.4	80-120	7.78	20	
Ethylbenzene	0.0910	0.00100	"	0.100		91.0	80-120	8.78	20	
Xylene (p/m)	0.179	0.00200	"	0.200		89.3	80-120	8.83	20	
Xylene (o)	0.0847	0.00100	"	0.100		84.7	80-120	9.66	20	
Surrogate: 4-Bromofluorobenzene	*0.103*		*"*	*0.120*		*85.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
Calibration Blank (P4C1407-CCB1)				Prepared & Analyzed: 03/14/24						
Benzene	0.240		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.240		"							
Xylene (p/m)	0.220		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.103*		*"*	*0.120*		*85.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.3*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4C1407 - * DEFAULT PREP *****										
Calibration Blank (P4C1407-CCB2)				Prepared & Analyzed: 03/14/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.290		"							
Xylene (p/m)	0.250		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.106*		*"*	*0.120*		*87.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*99.6*	*80-120*			
Calibration Check (P4C1407-CCV1)				Prepared & Analyzed: 03/14/24						
Benzene	0.112	0.00100	mg/L	0.100		112	80-120			
Toluene	0.0965	0.00100	"	0.100		96.5	80-120			
Ethylbenzene	0.0907	0.00100	"	0.100		90.7	80-120			
Xylene (p/m)	0.189	0.00200	"	0.200		94.5	80-120			
Xylene (o)	0.0913	0.00100	"	0.100		91.3	80-120			
Surrogate: 4-Bromofluorobenzene	*0.104*		*"*	*0.120*		*86.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*99.9*	*80-120*			
Calibration Check (P4C1407-CCV2)				Prepared & Analyzed: 03/14/24						
Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.0957	0.00100	"	0.100		95.7	80-120			
Xylene (p/m)	0.201	0.00200	"	0.200		100	80-120			
Xylene (o)	0.0981	0.00100	"	0.100		98.1	80-120			
Surrogate: 4-Bromofluorobenzene	*0.103*		*"*	*0.120*		*85.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.3*	*80-120*			
Calibration Check (P4C1407-CCV3)				Prepared: 03/14/24 Analyzed: 03/15/24						
Benzene	0.120	0.00100	mg/L	0.100		120	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.0992	0.00100	"	0.100		99.2	80-120			
Xylene (p/m)	0.210	0.00200	"	0.200		105	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	*0.104*		*"*	*0.120*		*86.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			

Talon LPE	Project:	CS CAYLOR
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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 P4C1407 - * DEFAULT PREP *****										
Matrix Spike (P4C1407-MS1)		**Source: 4C13025-01**		Prepared: 03/14/24 Analyzed: 03/15/24						
Benzene	0.120	0.00100	mg/L	0.100	ND	120	80-120			
Toluene	0.105	0.00100	"	0.100	ND	105	80-120			
Ethylbenzene	0.105	0.00100	"	0.100	ND	105	80-120			
Xylene (p/m)	0.209	0.00200	"	0.200	ND	105	80-120			
Xylene (o)	0.0990	0.00100	"	0.100	ND	99.0	80-120			
Surrogate: 4-Bromofluorobenzene	*0.104*		*"*	*0.120*		*87.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.121*		*"*	*0.120*		*101*	*80-120*			
Matrix Spike Dup (P4C1407-MSD1)		**Source: 4C13025-01**		Prepared: 03/14/24 Analyzed: 03/15/24						
Benzene	0.106	0.00100	mg/L	0.100	ND	106	80-120	12.6	20	
Toluene	0.0930	0.00100	"	0.100	ND	93.0	80-120	12.0	20	
Ethylbenzene	0.0935	0.00100	"	0.100	ND	93.5	80-120	11.4	20	
Xylene (p/m)	0.187	0.00200	"	0.200	ND	93.5	80-120	11.3	20	
Xylene (o)	0.0870	0.00100	"	0.100	ND	87.0	80-120	12.9	20	
Surrogate: 4-Bromofluorobenzene	*0.105*		*"*	*0.120*		*87.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			

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General Chemistry Parameters by EPA / Standard Methods - 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 P4C1911 - * DEFAULT PREP *****										
Blank (P4C1911-BLK1)				Prepared: 03/08/24 Analyzed: 03/19/24						
Nitrate as N	ND	0.200	mg/L							
LCS (P4C1911-BS1)				Prepared: 03/08/24 Analyzed: 03/19/24						
Nitrate as N	21.8		mg/L	20.0		109	90-110			
LCS Dup (P4C1911-BSD1)				Prepared: 03/08/24 Analyzed: 03/19/24						
Nitrate as N	21.8		mg/L	20.0		109	90-110	0.00918	10	
Calibration Check (P4C1911-CCV1)				Prepared: 03/08/24 Analyzed: 03/19/24						
Nitrate as N	21.8		mg/L	20.0		109	90-110			
Calibration Check (P4C1911-CCV2)				Prepared: 03/08/24 Analyzed: 03/19/24						
Nitrate as N	21.2		mg/L	20.0		106	90-110			
Matrix Spike (P4C1911-MS1)		**Source: 4C07008-01**		Prepared: 03/08/24 Analyzed: 03/19/24						
Nitrate as N	32.7		mg/L	20.0	0.890	159	80-120			QM-05
Matrix Spike (P4C1911-MS2)		**Source: 4C13009-05**		Prepared: 03/14/24 Analyzed: 03/19/24						
Nitrate as N	23.6		mg/L	20.0	0.125	118	80-120			
Matrix Spike Dup (P4C1911-MSD1)		**Source: 4C07008-01**		Prepared: 03/08/24 Analyzed: 03/19/24						
Nitrate as N	32.4		mg/L	20.0	0.890	158	80-120	0.833	20	QM-05
Matrix Spike Dup (P4C1911-MSD2)		**Source: 4C13009-05**		Prepared: 03/14/24 Analyzed: 03/19/24						
Nitrate as N	23.7		mg/L	20.0	0.125	118	80-120	0.401	20	
Batch P4C2014 - * DEFAULT PREP *****										
Blank (P4C2014-BLK1)				Prepared: 03/20/24 Analyzed: 03/21/24						
Sulfate	ND	1.00	mg/L							

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General Chemistry Parameters by EPA / Standard Methods - 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 P4C2014 - * DEFAULT PREP *****										
LCS (P4C2014-BS1)				Prepared: 03/20/24 Analyzed: 03/21/24						
Sulfate	17.9		mg/L	18.0		99.7	90-110			
LCS Dup (P4C2014-BSD1)				Prepared: 03/20/24 Analyzed: 03/21/24						
Sulfate	18.0		mg/L	18.0		100	90-110	0.489	10	
Calibration Check (P4C2014-CCV1)				Prepared: 03/20/24 Analyzed: 03/21/24						
Sulfate	17.6		mg/L	18.0		97.8	90-110			
Calibration Check (P4C2014-CCV2)				Prepared: 03/20/24 Analyzed: 03/21/24						
Sulfate	17.7		mg/L	18.0		98.2	90-110			
Matrix Spike (P4C2014-MS1)		**Source: 4C07008-01**		Prepared: 03/20/24 Analyzed: 03/21/24						
Sulfate	107		mg/L	100	9.66	97.7	80-120			
Matrix Spike (P4C2014-MS2)		**Source: 4C13009-05**		Prepared: 03/20/24 Analyzed: 03/22/24						
Sulfate	107		mg/L	100	7.37	99.8	80-120			
Matrix Spike Dup (P4C2014-MSD1)		**Source: 4C07008-01**		Prepared: 03/20/24 Analyzed: 03/21/24						
Sulfate	108		mg/L	100	9.66	98.7	80-120	0.915	20	
Matrix Spike Dup (P4C2014-MSD2)		**Source: 4C13009-05**		Prepared: 03/20/24 Analyzed: 03/22/24						
Sulfate	107		mg/L	100	7.37	99.9	80-120	0.0270	20	
Batch P4C2608 - * DEFAULT PREP *****										
Blank (P4C2608-BLK1)				Prepared & Analyzed: 04/15/24						
Total Alkalinity	ND	10.0	mg/L							
Carbonate Alkalinity	ND	10.0	"							
Bicarbonate Alkalinity	ND	10.0	"							
Hydroxide Alkalinity	ND	10.0	"							

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General Chemistry Parameters by EPA / Standard Methods - 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 P4C2608 - * DEFAULT PREP *****										
LCS (P4C2608-BS1)				Prepared & Analyzed: 04/15/24						
Total Alkalinity	217		mg/L	250		86.8	80-120			
Carbonate Alkalinity	ND	10.0	"				80-120			
Bicarbonate Alkalinity	ND	10.0	"				80-120			
Hydroxide Alkalinity	ND	10.0	"				80-120			
Duplicate (P4C2608-DUP1)		**Source: 4C13012-01**		Prepared & Analyzed: 04/15/24						
Total Alkalinity	222	10.0	mg/L		138			46.7	20	
Carbonate Alkalinity	ND	10.0	"		ND				20	
Bicarbonate Alkalinity	ND	10.0	"		ND				20	
Hydroxide Alkalinity	ND	10.0	"		ND				20	

Talon LPE		Project:	CS CAYLOR
2901 S. State Hwy 349		Project Number:	SRS#2002-10250
Midland TX, 79706		Project Manager:	David Adkins

Notes and Definitions

SUB-13	Subcontract of analyte/analysis to ALS Houston.
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: 4/30/2024

Brent Barron, Laboratory Director/Technical Director

Talon LPE	Project:	CS CAYLOR
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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: CS Caylor
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10250
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only)
ORDER #: 4C13025

Preservation & # of Containers; Matrix (DW=Drinking Water SL=Sludge; GW = Groundwater S=Soil/Solid; NP=Non-Potable Specify Othe); Analyze For: TCLP: / TOTAL:

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	TPH: TX 1005 TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	MNA Parameters	PAH	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
							5	5	1	3				1		GW				X			X
1	MW-11A			3-13-24	9:30		11	11	1	6				4		GW			X	X	X		X
2	MW-6A			3-13-24	12:21		11	11	1	6				4		GW			X	X	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	3-13-24	12:40	Jose Bueno	3-13-24	12:40
Jose Bueno	3-13-24	4:41			
			Received by PBEL: Teresa Blanco	3/13/24	16:41

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: 4.2 °C Thermometer: NLF 13
Adjusted: °C Factor:

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235

PBELAB_SUB_COC_V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name: PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: X Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

ORDER #:

LAB # (lab use only)		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly 1	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	$Na_2S_2O_3$	NONE 500 POLY	NONE 3 AMBER VOAA VIALS	Matrix (DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other)	Analyze For: 8270C PAH LL	RSK SOP-175	Mn DISS ICP M5 6020A	Fe DISS ICP MS 6020A										24 HOUR RUSH	STANDARD
	4C13025-01			3/13/2024	9:30	Y	7	X	X	X					X	W	X	X	X	X											X
	4C13025-02			3/13/2024	12:21	Y	7	X	X	X					X	W	X	X	X	X											X

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron					
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

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: °C		
Adjusted: °C Factor		

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

March 25, 2024

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS24030894**

Laboratory Results for: **4C13025**

Dear Brent Barron,

ALS Environmental received 2 sample(s) on Mar 14, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DAYNA.FISHER
Anna Kinchen
Project Manager

ALS Houston, US Date: 25-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13025
Work Order: HS24030894

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24030894-01	4C13025-01	Water		13-Mar-2024 09:30	14-Mar-2024 09:15	☐
HS24030894-02	4C13025-02	Water		13-Mar-2024 12:21	14-Mar-2024 09:15	☐

ALS Houston, US Date: 25-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13025
Work Order: HS24030894

CASE NARRATIVE

GC Semivolatiles by Method RSK-175

Batch ID: R461671

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Semivolatiles by Method SW8270

Batch ID: 209017

Sample ID: HS24030802-02MSD

- MSD is for an unrelated sample (Chrysene)

Metals by Method SW6020A

Batch ID: 209137

Sample ID: HS24030979-02MS

- MS/MSD and DUPs are for an unrelated sample

ALS Houston, US Date: 25-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13025
Sample ID: 4C13025-01
Collection Date: 13-Mar-2024 09:30

ANALYTICAL REPORT
WorkOrder:HS24030894
Lab ID:HS24030894-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL PAHS - 8270D		**Method:SW8270**		Prep:SW3511 / 19-Mar-2024		Analyst: MBG
1-Methylnaphthalene	ND	n	0.106	ug/L	1	22-Mar-2024 16:59
2-Methylnaphthalene	ND		0.106	ug/L	1	22-Mar-2024 16:59
Acenaphthene	ND		0.106	ug/L	1	22-Mar-2024 16:59
Acenaphthylene	ND		0.106	ug/L	1	22-Mar-2024 16:59
Anthracene	ND		0.106	ug/L	1	22-Mar-2024 16:59
Benz(a)anthracene	ND		0.106	ug/L	1	22-Mar-2024 16:59
Benzo(a)pyrene	ND		0.106	ug/L	1	22-Mar-2024 16:59
Benzo(b)fluoranthene	ND		0.106	ug/L	1	22-Mar-2024 16:59
Benzo(g,h,i)perylene	ND		0.106	ug/L	1	22-Mar-2024 16:59
Benzo(k)fluoranthene	ND		0.106	ug/L	1	22-Mar-2024 16:59
Chrysene	ND		0.106	ug/L	1	22-Mar-2024 16:59
Dibenz(a,h)anthracene	ND		0.106	ug/L	1	22-Mar-2024 16:59
Fluoranthene	ND		0.106	ug/L	1	22-Mar-2024 16:59
Fluorene	ND		0.106	ug/L	1	22-Mar-2024 16:59
Indeno(1,2,3-cd)pyrene	ND		0.106	ug/L	1	22-Mar-2024 16:59
Naphthalene	ND		0.106	ug/L	1	22-Mar-2024 16:59
Phenanthrene	ND		0.106	ug/L	1	22-Mar-2024 16:59
Pyrene	ND		0.106	ug/L	1	22-Mar-2024 16:59
Surr: 2-Fluorobiphenyl	*46.7*		*32-130*	*%REC*	*1*	*22-Mar-2024 16:59*
Surr: 4-Terphenyl-d14	*47.8*		*40-135*	*%REC*	*1*	*22-Mar-2024 16:59*
Surr: Nitrobenzene-d5	*49.7*		*45-142*	*%REC*	*1*	*22-Mar-2024 16:59*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**				Analyst: E.H.
Ethane	ND		1.00	ug/L	1	19-Mar-2024 10:46
Ethene	ND		1.00	ug/L	1	19-Mar-2024 10:46
Methane	**0.540**		**0.500**	**ug/L**	1	19-Mar-2024 10:46
DISSOLVED METALS BY SW6020A		**Method:SW6020A (dissolved)**		Prep:SW3010A / 20-Mar-2024		Analyst: JC
Iron	ND		0.200	mg/L	1	20-Mar-2024 22:38
Manganese	ND		0.00500	mg/L	1	20-Mar-2024 22:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 25-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13025
Sample ID: 4C13025-02
Collection Date: 13-Mar-2024 12:21

ANALYTICAL REPORT
WorkOrder:HS24030894
Lab ID:HS24030894-02
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL PAHS - 8270D		**Method:SW8270**		Prep:SW3511 / 19-Mar-2024		Analyst: MBG
1-Methylnaphthalene	ND	n	0.176	ug/L	1	22-Mar-2024 17:20
2-Methylnaphthalene	ND		0.176	ug/L	1	22-Mar-2024 17:20
Acenaphthene	ND		0.176	ug/L	1	22-Mar-2024 17:20
Acenaphthylene	ND		0.176	ug/L	1	22-Mar-2024 17:20
Anthracene	ND		0.176	ug/L	1	22-Mar-2024 17:20
Benz(a)anthracene	ND		0.176	ug/L	1	22-Mar-2024 17:20
Benzo(a)pyrene	ND		0.176	ug/L	1	22-Mar-2024 17:20
Benzo(b)fluoranthene	ND		0.176	ug/L	1	22-Mar-2024 17:20
Benzo(g,h,i)perylene	ND		0.176	ug/L	1	22-Mar-2024 17:20
Benzo(k)fluoranthene	ND		0.176	ug/L	1	22-Mar-2024 17:20
Chrysene	ND		0.176	ug/L	1	22-Mar-2024 17:20
Dibenz(a,h)anthracene	ND		0.176	ug/L	1	22-Mar-2024 17:20
Fluoranthene	ND		0.176	ug/L	1	22-Mar-2024 17:20
Fluorene	ND		0.176	ug/L	1	22-Mar-2024 17:20
Indeno(1,2,3-cd)pyrene	ND		0.176	ug/L	1	22-Mar-2024 17:20
Naphthalene	ND		0.176	ug/L	1	22-Mar-2024 17:20
Phenanthrene	ND		0.176	ug/L	1	22-Mar-2024 17:20
Pyrene	ND		0.176	ug/L	1	22-Mar-2024 17:20
Surr: 2-Fluorobiphenyl	*60.4*		*32-130*	*%REC*	*1*	*22-Mar-2024 17:20*
Surr: 4-Terphenyl-d14	*48.8*		*40-135*	*%REC*	*1*	*22-Mar-2024 17:20*
Surr: Nitrobenzene-d5	*75.0*		*45-142*	*%REC*	*1*	*22-Mar-2024 17:20*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**				Analyst: E.H.
Ethane	ND		1.00	ug/L	1	19-Mar-2024 10:58
Ethene	ND		1.00	ug/L	1	19-Mar-2024 10:58
Methane	**0.634**		**0.500**	**ug/L**	1	19-Mar-2024 10:58
DISSOLVED METALS BY SW6020A		**Method:SW6020A (dissolved)**		Prep:SW3010A / 20-Mar-2024		Analyst: JC
Iron	**0.258**		**0.200**	**mg/L**	1	20-Mar-2024 22:40
Manganese	**0.0116**		**0.00500**	**mg/L**	1	20-Mar-2024 22:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 25-Mar-24

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP
Project: 4C13025
WorkOrder: HS24030894

Batch ID: 209017 **Start Date:** 19 Mar 2024 08:00 **End Date:** 19 Mar 2024 08:00
Method: SW3511 **Prep Code:** 3511_PAH

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24030894-01		31.25 (mL)	2 (mL)	0.064	40 mL Amber, HCL
HS24030894-02		18.8 (mL)	2 (mL)	0.1064	40 mL Amber, HCL

Batch ID: 209137 **Start Date:** 20 Mar 2024 13:30 **End Date:** 20 Mar 2024 13:30
Method: DISS METALS PREP - WATER - SW3010A **Prep Code:** 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24030894-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS24030894-02		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

ALS Houston, US Date: 25-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13025
WorkOrder: HS24030894

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 209017 (0)	**Test Name :** LOW-LEVEL PAHS - 8270D				**Matrix:** Water	
HS24030894-01	4C13025-01	13 Mar 2024 09:30		19 Mar 2024 08:00	22 Mar 2024 16:59	1
HS24030894-02	4C13025-02	13 Mar 2024 12:21		19 Mar 2024 08:00	22 Mar 2024 17:20	1
Batch ID: 209137 (0)	**Test Name :** DISSOLVED METALS BY SW6020A				**Matrix:** Water	
HS24030894-01	4C13025-01	13 Mar 2024 09:30		20 Mar 2024 13:30	20 Mar 2024 22:38	1
HS24030894-02	4C13025-02	13 Mar 2024 12:21		20 Mar 2024 13:30	20 Mar 2024 22:40	1
Batch ID: R461671 (0)	**Test Name :** DISSOLVED GASES BY RSK-175				**Matrix:** Water	
HS24030894-01	4C13025-01	13 Mar 2024 09:30			19 Mar 2024 10:46	1
HS24030894-02	4C13025-02	13 Mar 2024 12:21			19 Mar 2024 10:58	1

ALS Houston, US Date: 25-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13025
WorkOrder: HS24030894

QC BATCH REPORT

Batch ID: R461671 (0) **Instrument:** FID-4 **Method:** DISSOLVED GASES BY RSK-175

MBLK Sample ID: **MBLK-240319** Units: **ug/L** Analysis Date: **19-Mar-2024 08:03**
Client ID: Run ID: **FID-4_461671** SeqNo: **7895885** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	ND	1.00								
Ethene	ND	1.00								
Methane	ND	0.500								

LCS Sample ID: **LCS-240319** Units: **ug/L** Analysis Date: **19-Mar-2024 08:14**
Client ID: Run ID: **FID-4_461671** SeqNo: **7895886** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	17.06	1.00	18.04	0	94.5	75 - 125				
Ethene	15.89	1.00	16.8	0	94.6	75 - 125				
Methane	9.692	0.500	9.647	0	100	75 - 125				

LCSD Sample ID: **LCSD-240319** Units: **ug/L** Analysis Date: **19-Mar-2024 08:25**
Client ID: Run ID: **FID-4_461671** SeqNo: **7895887** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	17.32	1.00	18.04	0	96.0	75 - 125	17.06	1.52	30	
Ethene	15.52	1.00	16.8	0	92.4	75 - 125	15.89	2.36	30	
Methane	9.755	0.500	9.647	0	101	75 - 125	9.692	0.649	30	

The following samples were analyzed in this batch: HS24030894-01 HS24030894-02

ALS Houston, US Date: 25-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13025
WorkOrder: HS24030894

QC BATCH REPORT

Batch ID: 209137 (0) **Instrument:** ICPMS06 **Method:** DISSOLVED METALS BY SW6020A (DISSOLVED)

MBLK Sample ID: **MBLK-209137** Units: **mg/L** Analysis Date: **20-Mar-2024 21:50**
Client ID: Run ID: **ICPMS06_461723** SeqNo: **7898451** PrepDate: **20-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	ND	0.200								
Manganese	ND	0.00500								

LCS Sample ID: **LCS-209137** Units: **mg/L** Analysis Date: **20-Mar-2024 21:52**
Client ID: Run ID: **ICPMS06_461723** SeqNo: **7898452** PrepDate: **20-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.893	0.200	5	0	97.9	80 - 120				
Manganese	0.04698	0.00500	0.05	0	94.0	80 - 120				

MS Sample ID: **HS24030979-02MS** Units: **mg/L** Analysis Date: **20-Mar-2024 22:27**
Client ID: Run ID: **ICPMS06_461723** SeqNo: **7898440** PrepDate: **20-Mar-2024** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	22.11	2.00	5	12.97	183	75 - 125				S
Manganese	9.408	0.0500	0.05	7.459	3900	75 - 125				SO

MSD Sample ID: **HS24030979-02MSD** Units: **mg/L** Analysis Date: **20-Mar-2024 22:28**
Client ID: Run ID: **ICPMS06_461723** SeqNo: **7898441** PrepDate: **20-Mar-2024** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	22.08	2.00	5	12.97	182	75 - 125	22.11	0.102	20	S
Manganese	9.182	0.0500	0.05	7.459	3450	75 - 125	9.408	2.43	20	SO

PDS Sample ID: **HS24030979-02PDS** Units: **mg/L** Analysis Date: **20-Mar-2024 22:30**
Client ID: Run ID: **ICPMS06_461723** SeqNo: **7898442** PrepDate: **20-Mar-2024** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	113.4	2.00	100	12.97	100	75 - 125				
Manganese	9.603	0.0500	1	7.459	214	75 - 125				SO

ALS Houston, US Date: 25-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13025
WorkOrder: HS24030894

QC BATCH REPORT

Batch ID: 209137 (0) **Instrument:** ICPMS06 **Method:** DISSOLVED METALS BY SW6020A (DISSOLVED)

SD Sample ID: **HS24030979-02SD** Units: **mg/L** Analysis Date: **20-Mar-2024 22:25**
Client ID: Run ID: **ICPMS06_461723** SeqNo: **7898439** PrepDate: **20-Mar-2024** DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Iron	13.16	10.0					12.97	1.44	10	
Manganese	7.508	0.250					7.459	0.651	10	

The following samples were analyzed in this batch: HS24030894-01 HS24030894-02

ALS Houston, US Date: 25-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13025
WorkOrder: HS24030894

QC BATCH REPORT

Batch ID: 209017 (0) **Instrument: SV-6** **Method: LOW-LEVEL PAHS - 8270D**

MBLK Sample ID: **MBLK-209017** Units: **ug/L** Analysis Date: **19-Mar-2024 17:43**
Client ID: Run ID: **SV-6_461944** SeqNo: **7901935** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	0.100								
2-Methylnaphthalene	ND	0.100								
Acenaphthene	ND	0.100								
Acenaphthylene	ND	0.100								
Anthracene	ND	0.100								
Benz(a)anthracene	ND	0.100								
Benzo(a)pyrene	ND	0.100								
Benzo(b)fluoranthene	ND	0.100								
Benzo(g,h,i)perylene	ND	0.100								
Benzo(k)fluoranthene	ND	0.100								
Chrysene	ND	0.100								
Dibenz(a,h)anthracene	ND	0.100								
Fluoranthene	ND	0.100								
Fluorene	ND	0.100								
Indeno(1,2,3-cd)pyrene	ND	0.100								
Naphthalene	ND	0.100								
Phenanthrene	ND	0.100								
Pyrene	ND	0.100								
Surr: 2-Fluorobiphenyl	*1.431*	*0.100*	*3.03*	*0*	*47.2*	*32 - 130*				
Surr: 4-Terphenyl-d14	*1.231*	*0.100*	*3.03*	*0*	*40.6*	*40 - 135*				
Surr: Nitrobenzene-d5	*1.607*	*0.100*	*3.03*	*0*	*53.0*	*45 - 142*				

ALS Houston, US Date: 25-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13025
WorkOrder: HS24030894

QC BATCH REPORT

Batch ID: 209017 (0) **Instrument: SV-6** **Method: LOW-LEVEL PAHS - 8270D**

LCS Sample ID: **LCS-209017** Units: **ug/L** Analysis Date: **19-Mar-2024 18:03**
Client ID: Run ID: **SV-6_461944** SeqNo: **7901936** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	1.934	0.100	3.03	0	63.8	40 - 140				
2-Methylnaphthalene	1.916	0.100	3.03	0	63.2	40 - 140				
Acenaphthene	2.006	0.100	3.03	0	66.2	40 - 140				
Acenaphthylene	1.964	0.100	3.03	0	64.8	40 - 140				
Anthracene	1.837	0.100	3.03	0	60.6	40 - 140				
Benz(a)anthracene	1.556	0.100	3.03	0	51.4	40 - 140				
Benzo(a)pyrene	1.722	0.100	3.03	0	56.8	40 - 140				
Benzo(b)fluoranthene	1.236	0.100	3.03	0	40.8	40 - 140				
Benzo(g,h,i)perylene	1.521	0.100	3.03	0	50.2	40 - 140				
Benzo(k)fluoranthene	1.883	0.100	3.03	0	62.2	40 - 140				
Chrysene	1.996	0.100	3.03	0	65.9	40 - 140				
Dibenz(a,h)anthracene	2.056	0.100	3.03	0	67.9	40 - 140				
Fluoranthene	1.993	0.100	3.03	0	65.8	40 - 140				
Fluorene	1.877	0.100	3.03	0	62.0	40 - 140				
Indeno(1,2,3-cd)pyrene	1.801	0.100	3.03	0	59.4	40 - 140				
Naphthalene	2.023	0.100	3.03	0	66.8	40 - 140				
Phenanthrene	1.291	0.100	3.03	0	42.6	40 - 140				
Pyrene	1.559	0.100	3.03	0	51.5	40 - 140				
Surr: 2-Fluorobiphenyl	*1.648*	*0.100*	*3.03*	*0*	*54.4*	*32 - 130*				
Surr: 4-Terphenyl-d14	*1.515*	*0.100*	*3.03*	*0*	*50.0*	*40 - 135*				
Surr: Nitrobenzene-d5	*1.713*	*0.100*	*3.03*	*0*	*56.5*	*45 - 142*				

ALS Houston, US Date: 25-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13025
WorkOrder: HS24030894

QC BATCH REPORT

Batch ID: 209017 (0) **Instrument: SV-6** **Method: LOW-LEVEL PAHS - 8270D**

MS Sample ID: **HS24030802-02MS** Units: **ug/L** Analysis Date: **19-Mar-2024 18:44**
Client ID: Run ID: **SV-6_461944** SeqNo: **7901938** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	4.261	0.104	3.141	0.9861	104	40 - 140				
2-Methylnaphthalene	2.896	0.104	3.141	0.6834	70.4	40 - 140				
Acenaphthene	2.047	0.104	3.141	0.5094	48.9	40 - 140				
Acenaphthylene	1.553	0.104	3.141	0	49.4	40 - 140				
Anthracene	2.553	0.104	3.141	0.331	70.7	40 - 140				
Benz(a)anthracene	1.563	0.104	3.141	0	49.8	40 - 140				
Benzo(a)pyrene	1.763	0.104	3.141	0	56.1	40 - 140				
Benzo(b)fluoranthene	1.276	0.104	3.141	0	40.6	40 - 140				
Benzo(g,h,i)perylene	1.71	0.104	3.141	0	54.4	40 - 140				
Benzo(k)fluoranthene	1.896	0.104	3.141	0	60.4	40 - 140				
Chrysene	2.265	0.104	3.141	0	72.1	40 - 140				
Dibenz(a,h)anthracene	2.006	0.104	3.141	0	63.9	40 - 140				
Fluoranthene	2.68	0.104	3.141	0	85.3	40 - 140				
Fluorene	1.921	0.104	3.141	0.2393	53.5	40 - 140				
Indeno(1,2,3-cd)pyrene	1.819	0.104	3.141	0	57.9	40 - 140				
Naphthalene	7.219	0.104	3.141	4.949	72.3	40 - 140				
Phenanthrene	1.781	0.104	3.141	0.5131	40.4	40 - 140				
Pyrene	2.099	0.104	3.141	0	66.8	40 - 140				
Surr: 2-Fluorobiphenyl	*1.435*	*0.104*	*3.141*	*0*	*45.7*	*32 - 130*				
Surr: 4-Terphenyl-d14	*1.565*	*0.104*	*3.141*	*0*	*49.8*	*40 - 135*				
Surr: Nitrobenzene-d5	*1.994*	*0.104*	*3.141*	*0*	*63.5*	*45 - 142*				

ALS Houston, US Date: 25-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13025
WorkOrder: HS24030894

QC BATCH REPORT

Batch ID: 209017 (0) **Instrument: SV-6** **Method: LOW-LEVEL PAHS - 8270D**

MSD Sample ID: **HS24030802-02MSD** Units: **ug/L** Analysis Date: **19-Mar-2024 19:04**
Client ID: Run ID: **SV-6_461944** SeqNo: **7901939** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	4.419	0.101	3.072	0.9861	112	40 - 140	4.261	3.65	25	
2-Methylnaphthalene	3.001	0.101	3.072	0.6834	75.4	40 - 140	2.896	3.56	25	
Acenaphthene	2.142	0.101	3.072	0.5094	53.1	40 - 140	2.047	4.54	25	
Acenaphthylene	1.894	0.101	3.072	0	61.6	40 - 140	1.553	19.8	25	
Anthracene	3.005	0.101	3.072	0.331	87.1	40 - 140	2.553	16.3	25	
Benz(a)anthracene	1.693	0.101	3.072	0	55.1	40 - 140	1.563	7.99	25	
Benzo(a)pyrene	1.644	0.101	3.072	0	53.5	40 - 140	1.763	7.01	25	
Benzo(b)fluoranthene	1.401	0.101	3.072	0	45.6	40 - 140	1.276	9.37	25	
Benzo(g,h,i)perylene	1.42	0.101	3.072	0	46.2	40 - 140	1.71	18.5	25	
Benzo(k)fluoranthene	2.301	0.101	3.072	0	74.9	40 - 140	1.896	19.3	25	
Chrysene	3.182	0.101	3.072	0	104	40 - 140	2.265	33.7	25	R
Dibenz(a,h)anthracene	1.76	0.101	3.072	0	57.3	40 - 140	2.006	13.1	25	
Fluoranthene	2.859	0.101	3.072	0	93.1	40 - 140	2.68	6.48	25	
Fluorene	2.149	0.101	3.072	0.2393	62.2	40 - 140	1.921	11.2	25	
Indeno(1,2,3-cd)pyrene	1.647	0.101	3.072	0	53.6	40 - 140	1.819	9.96	25	
Naphthalene	7.44	0.101	3.072	4.949	81.1	40 - 140	7.219	3	25	
Phenanthrene	1.89	0.101	3.072	0.5131	44.8	40 - 140	1.781	5.96	25	
Pyrene	2.371	0.101	3.072	0	77.2	40 - 140	2.099	12.1	25	
Surr: 2-Fluorobiphenyl	*1.53*	*0.101*	*3.072*	*0*	*49.8*	*32 - 130*	*1.435*	*6.39*	*25*	
Surr: 4-Terphenyl-d14	*1.393*	*0.101*	*3.072*	*0*	*45.3*	*40 - 135*	*1.565*	*11.6*	*25*	
Surr: Nitrobenzene-d5	*1.916*	*0.101*	*3.072*	*0*	*62.4*	*45 - 142*	*1.994*	*4*	*25*	

The following samples were analyzed in this batch: HS24030894-01 HS24030894-02

ALS Houston, US Date: 25-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C13025
WorkOrder: **HS24030894**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L22-90-R2	31-Mar-2024
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-32	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 25-Mar-24

Sample Receipt Checklist

Work Order ID: HS24030894 **Date/Time Received:** 14-Mar-2024 12:00
Client Name: Permian Basin Lab **Received by:** Jacob Coronado

Completed By: /S/ Kaycee Rogers (eSignature) 18-Mar-2024 11:37 (Date/Time) **Reviewed by:** /S/ Anna Kinchen (eSignature) 19-Mar-2024 08:19 (Date/Time)

Matrices: w Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	1.7uc/1.6c	ir 31
Cooler(s)/Kit(s):	red	
Date/Time sample(s) sent to storage:	03/18/2024 11:38	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name: PBEL

HS24030894

Company Address: 1400 Rankin HWY

Permian Basin Environmental Lab, LP
SUBCONTRACT

City/State/Zip: Midland Texas 79701

Telephone No: 432-661-4184 Fax No:

Sampler Signature: N/A e-mail: brentbarron@pbelab.com

ORDER #:

LAB # (lab use only)		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly 1	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	$Na_2S_2O_3$	NONE 500 POLY	NONE 3 AMBER VOAA VIALS	Matrix: DW- Drinking Water SL-Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: 8270C PAH LL	RSK SOP-175	Mn DISS ICP MS 6020A	Fe DISS ICP MS 6020A									24-HOUR RUSH	STANDARD
	4C13025-01			3/13/2024	9:30	Y	7	X	X	X					X	W	X	X	X	X										X
	4C13025-02			3/13/2024	12:21	Y	7	X	X	X					X	W	X	X	X	X										X

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron	3/14/24	12:00			
Relinquished by:	Date	Time	Received by: JC	Date 3/18/24	Time 9:15
Relinquished by:	Date	Time	Received by: Rod	Date	Time

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: °C
Adjusted: °C Factor

12 21

ORIGIN ID:MAFA (432) 689-7234
BRENT BARRON
P2E LAB
1400 FRANKLIN HWY
MIDLAND, TX 79701
UNITED STATES US

SHIP DATE: 14MAR22
ACTWGT: 8.00 LB
CAD: 107136946/INET4535
DIMS: 13x9x9 IN

BILL RECIPIENT

TO SAMPLE RECEIVING
ALS-HOUSTON
10450 STANCLIFF RD
HOUSTON TX 77099
(281) 530-5656
REF:
PO:
DEPT:

565J2/B538/AE1

FedEx Express

FRI - 15 MAR 5:00P
STANDARD OVERNIGHT

TRK# 7755 4958 1742
0201

77099
TX-US IAH

AB SGRA

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

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: CS CAYLOR

Project Number: SRS#2002-10250

Location: Lovington Hwy, NM

Lab Order Number: 4C14018

Current Certification

Report Date: 04/29/24

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-16A	4C14018-01	Water	03/14/24 11:15	03-14-2024 16:03
MW-15A	4C14018-02	Water	03/14/24 10:44	03-14-2024 16:03
MW-17A	4C14018-03	Water	03/14/24 11:52	03-14-2024 16:03
MW-14A	4C14018-04	Water	03/14/24 10:16	03-14-2024 16:03
MW-13A	4C14018-05	Water	03/14/24 09:40	03-14-2024 16:03

Low level PAH analysis were subcontracted to ALS Houston. Their report is attached after the Chain of Custody. Their TCEQ TNI certification number can be found here:
https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-16A

4C14018-01 (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	P4C2009	03/20/24 09:11	03/20/24 14:02	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 14:02	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 14:02	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 14:02	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 14:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.7 %*	*80-120*		*P4C2009*	*03/20/24 09:11*	*03/20/24 14:02*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P4C2009*	*03/20/24 09:11*	*03/20/24 14:02*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/20/24 09:11	03/20/24 14:02	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/20/24 09:11	03/20/24 14:02	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-15A

4C14018-02 (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	P4C2009	03/20/24 09:11	03/20/24 14:24	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 14:24	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 14:24	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 14:24	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 14:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.2 %*	*80-120*		*P4C2009*	*03/20/24 09:11*	*03/20/24 14:24*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P4C2009*	*03/20/24 09:11*	*03/20/24 14:24*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/20/24 09:11	03/20/24 14:24	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/20/24 09:11	03/20/24 14:24	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-17A

4C14018-03 (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	P4C2009	03/20/24 09:11	03/20/24 14:46	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 14:46	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 14:46	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 14:46	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 14:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*91.1 %*	*80-120*		*P4C2009*	*03/20/24 09:11*	*03/20/24 14:46*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P4C2009*	*03/20/24 09:11*	*03/20/24 14:46*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/20/24 09:11	03/20/24 14:46	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/20/24 09:11	03/20/24 14:46	EPA 8021B	
PAH compounds by Semivolatile GCMS									
1-Methylnaphthalene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13
2-Methylnaphthalene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13
Acenaphthene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13
Acenaphthylene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13
Anthracene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13
Benzo (a) anthracene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13
Benzo (a) pyrene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13
Benzo (b) fluoranthene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13
Benzo (g,h,i) perylene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13
Benzo (k) fluoranthene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13
Chrysene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13
Dibenzo (a,h) anthracene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13
Dibenzofuran	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13
Fluoranthene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13
Fluorene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13
Indeno (1,2,3-cd) pyrene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13
Naphthalene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13
Phenanthrene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13
Pyrene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:34	8270C	SUB-13

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-14A

4C14018-04 (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	P4C2009	03/20/24 09:11	03/20/24 15:09	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 15:09	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 15:09	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 15:09	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 15:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.1 %*	*80-120*		*P4C2009*	*03/20/24 09:11*	*03/20/24 15:09*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P4C2009*	*03/20/24 09:11*	*03/20/24 15:09*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/20/24 09:11	03/20/24 15:09	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/20/24 09:11	03/20/24 15:09	EPA 8021B	
PAH compounds by Semivolatile GCMS									
1-Methylnaphthalene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13
2-Methylnaphthalene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13
Acenaphthene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13
Acenaphthylene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13
Anthracene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13
Benzo (a) anthracene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13
Benzo (a) pyrene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13
Benzo (b) fluoranthene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13
Benzo (g,h,i) perylene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13
Benzo (k) fluoranthene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13
Chrysene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13
Dibenzo (a,h) anthracene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13
Dibenzofuran	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13
Fluoranthene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13
Fluorene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13
Indeno (1,2,3-cd) pyrene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13
Naphthalene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13
Phenanthrene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13
Pyrene	ND	0.00010	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 13:55	8270C	SUB-13

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-13A

4C14018-05 (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	P4C2009	03/20/24 09:11	03/20/24 15:31	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 15:31	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 15:31	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 15:31	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4C2009	03/20/24 09:11	03/20/24 15:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.9 %*	*80-120*		*P4C2009*	*03/20/24 09:11*	*03/20/24 15:31*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P4C2009*	*03/20/24 09:11*	*03/20/24 15:31*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	03/20/24 09:11	03/20/24 15:31	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	03/20/24 09:11	03/20/24 15:31	EPA 8021B	
PAH compounds by Semivolatile GCMS									
1-Methylnaphthalene	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13
2-Methylnaphthalene	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13
Acenaphthene	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13
Acenaphthylene	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13
Anthracene	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13
Benzo (a) anthracene	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13
Benzo (a) pyrene	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13
Benzo (b) fluoranthene	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13
Benzo (g,h,i) perylene	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13
Benzo (k) fluoranthene	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13
Chrysene	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13
Dibenzo (a,h) anthracene	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13
Dibenzofuran	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13
Fluoranthene	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13
Fluorene	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13
Indeno (1,2,3-cd) pyrene	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13
Naphthalene	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13
Phenanthrene	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13
Pyrene	ND	0.000097	mg/L	1	P4C2707	03/19/24 16:30	03/26/24 14:15	8270C	SUB-13

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4C2009 - * DEFAULT PREP *****										
Blank (P4C2009-BLK1)				Prepared & Analyzed: 03/20/24						
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	*0.108*		*"*	*0.120*		*89.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.6*	*80-120*			
LCS (P4C2009-BS1)				Prepared & Analyzed: 03/20/24						
Benzene	0.108	0.00100	mg/L	0.100		108	80-120			
Toluene	0.0998	0.00100	"	0.100		99.8	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		103	80-120			
Xylene (o)	0.0955	0.00100	"	0.100		95.5	80-120			
Surrogate: 4-Bromofluorobenzene	*0.106*		*"*	*0.120*		*88.3*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.4*	*80-120*			
LCS Dup (P4C2009-BSD1)				Prepared & Analyzed: 03/20/24						
Benzene	0.112	0.00100	mg/L	0.100		112	80-120	3.40	20	
Toluene	0.103	0.00100	"	0.100		103	80-120	2.83	20	
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120	2.96	20	
Xylene (p/m)	0.211	0.00200	"	0.200		105	80-120	2.68	20	
Xylene (o)	0.0984	0.00100	"	0.100		98.4	80-120	3.03	20	
Surrogate: 4-Bromofluorobenzene	*0.105*		*"*	*0.120*		*87.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.5*	*80-120*			
Calibration Blank (P4C2009-CCB1)				Prepared & Analyzed: 03/20/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.106*		*"*	*0.120*		*88.1*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.2*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4C2009 - * DEFAULT PREP *****										
Calibration Blank (P4C2009-CCB2)				Prepared & Analyzed: 03/20/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.106*		*"*	*0.120*		*88.3*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.2*	*80-120*			
Calibration Check (P4C2009-CCV1)				Prepared & Analyzed: 03/20/24						
Benzene	0.115	0.00100	mg/L	0.100		115	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.0981	0.00100	"	0.100		98.1	80-120			
Xylene (p/m)	0.209	0.00200	"	0.200		105	80-120			
Xylene (o)	0.0996	0.00100	"	0.100		99.6	80-120			
Surrogate: 4-Bromofluorobenzene	*0.104*		*"*	*0.120*		*86.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.7*	*80-120*			
Calibration Check (P4C2009-CCV2)				Prepared & Analyzed: 03/20/24						
Benzene	0.112	0.00100	mg/L	0.100		112	80-120			
Toluene	0.0977	0.00100	"	0.100		97.7	80-120			
Ethylbenzene	0.0923	0.00100	"	0.100		92.3	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		97.1	80-120			
Xylene (o)	0.0942	0.00100	"	0.100		94.2	80-120			
Surrogate: 4-Bromofluorobenzene	*0.103*		*"*	*0.120*		*85.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.5*	*80-120*			
Calibration Check (P4C2009-CCV3)				Prepared & Analyzed: 03/20/24						
Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.219	0.00200	"	0.200		109	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	*0.102*		*"*	*0.120*		*85.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.1*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4C2009 - * DEFAULT PREP *****										
Matrix Spike (P4C2009-MS1)		**Source: 4C14016-11**		Prepared & Analyzed: 03/20/24						
Benzene	0.108	0.00100	mg/L	0.100	ND	108	80-120			
Toluene	0.0974	0.00100	"	0.100	ND	97.4	80-120			
Ethylbenzene	0.0996	0.00100	"	0.100	ND	99.6	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200	ND	99.4	80-120			
Xylene (o)	0.0923	0.00100	"	0.100	ND	92.3	80-120			
Surrogate: 4-Bromofluorobenzene	*0.103*		*"*	*0.120*		*86.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.9*	*80-120*			
Matrix Spike Dup (P4C2009-MSD1)		**Source: 4C14016-11**		Prepared & Analyzed: 03/20/24						
Benzene	0.102	0.00100	mg/L	0.100	ND	102	80-120	5.98	20	
Toluene	0.0909	0.00100	"	0.100	ND	90.9	80-120	6.95	20	
Ethylbenzene	0.0935	0.00100	"	0.100	ND	93.5	80-120	6.38	20	
Xylene (p/m)	0.188	0.00200	"	0.200	ND	94.2	80-120	5.46	20	
Xylene (o)	0.0862	0.00100	"	0.100	ND	86.2	80-120	6.89	20	
Surrogate: 4-Bromofluorobenzene	*0.102*		*"*	*0.120*		*84.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.4*	*80-120*			

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Notes and Definitions

SUB-13	Subcontract of analyte/analysis to ALS Houston.
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: 4/29/2024

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
Project Name: CS Caylor
Company Name: Talon LPE
Project #: Plains All American Pipeline
Company Address: 408 Texas St.
Project Loc: Lea County, NM
City/State/Zip: Artesia, NM 88210
PO #: SRS# 2002-10250
Telephone No: 575-441-4835
Fax No:
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
Sampler Signature: Bartlett Medley
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only)
ORDER #: 4C14018

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: TOTAL: TPH: TX 1005, TX 1006; Anions (Cl, SO4, Alkalinity); BTEX 8021B/5030 or BTEX 8260; PAH

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	TPH: TX 1005	TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	PAH	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
1	MW-16A			3-14-24	11:15		3	3		3						GW				X			X
2	MW-15A			3-14-24	10:44		3	3		3						GW				X			X
3	MW-17A			3-14-24	11:52		6	6		6				3		GW				X	X		X
4	MW-14A			3-14-24	10:16		6	6		6				3		GW				X	X		X
5	MW-13A			3-14-24	9:40		6	6		6				3		GW				X	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	3-14-24	12:10	Jose Bueno	03/14/24	12:10
Jose Bueno	3-14-24	16:43			
			Received by PBEL: Trina Bledsoe	3/14/24	16:43

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: 4.3 °C Thermometer: NCS
Adjusted: °C Factor: 1.3

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

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235

PBELAB_SUB_COC_V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name: PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: X Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

ORDER #:

LAB # (lab use only)		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly 1	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML Po	$Na_2S_2O_3$	NONE 500 POLY	NONE 3 AMBER VOAA VIALS	Matrix (DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other)	Analyze For: 8270C PAH LL												24 HOUR RUSH	STANDARD
	4C14018-03			3/14/2024	11:52		3	X							X	W	X														X
	4C14018-04			3/14/2024	10:16		3	X							X	W	X														X
	4C14018-05			3/14/2024	9:40		3	X							X	W	X														X

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron					
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

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: °C		
Adjusted: °C Factor		

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
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March 26, 2024

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS24030967**

Laboratory Results for: **4C14018**

Dear Brent Barron,

ALS Environmental received 3 sample(s) on Mar 19, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Anna Kinchen
Project Manager

ALS Houston, US Date: 26-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C14018
Work Order: HS24030967

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24030967-01	4C14018-03	Water		14-Mar-2024 11:52	19-Mar-2024 09:25	☐
HS24030967-02	4C14018-04	Water		14-Mar-2024 10:16	19-Mar-2024 09:25	☐
HS24030967-03	4C14018-05	Water		14-Mar-2024 09:40	19-Mar-2024 09:25	☐

ALS Houston, US Date: 26-Mar-24

Client: Permian Basin Environmental Lab, LP **CASE NARRATIVE**
Project: 4C14018
Work Order: HS24030967

GCMS Semivolatiles by Method SW8270

Batch ID: 209081

Sample ID: LCSD-209081

- LCSD RPD was above the upper control limit. The individual recoveries were in control.

ALS Houston, US Date: 26-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C14018
Sample ID: 4C14018-03
Collection Date: 14-Mar-2024 11:52

ANALYTICAL REPORT
WorkOrder:HS24030967
Lab ID:HS24030967-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL PAHS - 8270D		**Method:SW8270**		Prep:SW3511 / 19-Mar-2024		Analyst: MBG
1-Methylnaphthalene	ND	n	0.103	ug/L	1	26-Mar-2024 13:34
2-Methylnaphthalene	ND		0.103	ug/L	1	26-Mar-2024 13:34
Acenaphthene	ND		0.103	ug/L	1	26-Mar-2024 13:34
Acenaphthylene	ND		0.103	ug/L	1	26-Mar-2024 13:34
Anthracene	ND		0.103	ug/L	1	26-Mar-2024 13:34
Benz(a)anthracene	ND		0.103	ug/L	1	26-Mar-2024 13:34
Benzo(a)pyrene	ND		0.103	ug/L	1	26-Mar-2024 13:34
Benzo(b)fluoranthene	ND		0.103	ug/L	1	26-Mar-2024 13:34
Benzo(g,h,i)perylene	ND		0.103	ug/L	1	26-Mar-2024 13:34
Benzo(k)fluoranthene	ND		0.103	ug/L	1	26-Mar-2024 13:34
Chrysene	ND		0.103	ug/L	1	26-Mar-2024 13:34
Dibenz(a,h)anthracene	ND		0.103	ug/L	1	26-Mar-2024 13:34
Fluoranthene	ND		0.103	ug/L	1	26-Mar-2024 13:34
Fluorene	ND		0.103	ug/L	1	26-Mar-2024 13:34
Indeno(1,2,3-cd)pyrene	ND		0.103	ug/L	1	26-Mar-2024 13:34
Naphthalene	ND		0.103	ug/L	1	26-Mar-2024 13:34
Phenanthrene	ND		0.103	ug/L	1	26-Mar-2024 13:34
Pyrene	ND		0.103	ug/L	1	26-Mar-2024 13:34
Surr: 2-Fluorobiphenyl	*64.0*		*32-130*	*%REC*	*1*	*26-Mar-2024 13:34*
Surr: 4-Terphenyl-d14	*52.6*		*40-135*	*%REC*	*1*	*26-Mar-2024 13:34*
Surr: Nitrobenzene-d5	*67.0*		*45-142*	*%REC*	*1*	*26-Mar-2024 13:34*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 26-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C14018
Sample ID: 4C14018-04
Collection Date: 14-Mar-2024 10:16

ANALYTICAL REPORT
WorkOrder:HS24030967
Lab ID:HS24030967-02
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL PAHS - 8270D		**Method:SW8270**		Prep:SW3511 / 19-Mar-2024		Analyst: MBG
1-Methylnaphthalene	ND	n	0.100	ug/L	1	26-Mar-2024 13:55
2-Methylnaphthalene	ND		0.100	ug/L	1	26-Mar-2024 13:55
Acenaphthene	ND		0.100	ug/L	1	26-Mar-2024 13:55
Acenaphthylene	ND		0.100	ug/L	1	26-Mar-2024 13:55
Anthracene	ND		0.100	ug/L	1	26-Mar-2024 13:55
Benz(a)anthracene	ND		0.100	ug/L	1	26-Mar-2024 13:55
Benzo(a)pyrene	ND		0.100	ug/L	1	26-Mar-2024 13:55
Benzo(b)fluoranthene	ND		0.100	ug/L	1	26-Mar-2024 13:55
Benzo(g,h,i)perylene	ND		0.100	ug/L	1	26-Mar-2024 13:55
Benzo(k)fluoranthene	ND		0.100	ug/L	1	26-Mar-2024 13:55
Chrysene	ND		0.100	ug/L	1	26-Mar-2024 13:55
Dibenz(a,h)anthracene	ND		0.100	ug/L	1	26-Mar-2024 13:55
Fluoranthene	ND		0.100	ug/L	1	26-Mar-2024 13:55
Fluorene	ND		0.100	ug/L	1	26-Mar-2024 13:55
Indeno(1,2,3-cd)pyrene	ND		0.100	ug/L	1	26-Mar-2024 13:55
Naphthalene	ND		0.100	ug/L	1	26-Mar-2024 13:55
Phenanthrene	ND		0.100	ug/L	1	26-Mar-2024 13:55
Pyrene	ND		0.100	ug/L	1	26-Mar-2024 13:55
Surr: 2-Fluorobiphenyl	*54.0*		*32-130*	*%REC*	*1*	*26-Mar-2024 13:55*
Surr: 4-Terphenyl-d14	*57.4*		*40-135*	*%REC*	*1*	*26-Mar-2024 13:55*
Surr: Nitrobenzene-d5	*54.7*		*45-142*	*%REC*	*1*	*26-Mar-2024 13:55*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 26-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C14018
Sample ID: 4C14018-05
Collection Date: 14-Mar-2024 09:40

ANALYTICAL REPORT
WorkOrder:HS24030967
Lab ID:HS24030967-03
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL PAHS - 8270D		**Method:SW8270**		Prep:SW3511 / 19-Mar-2024		Analyst: MBG
1-Methylnaphthalene	ND	n	0.0972	ug/L	1	26-Mar-2024 14:15
2-Methylnaphthalene	ND		0.0972	ug/L	1	26-Mar-2024 14:15
Acenaphthene	ND		0.0972	ug/L	1	26-Mar-2024 14:15
Acenaphthylene	ND		0.0972	ug/L	1	26-Mar-2024 14:15
Anthracene	ND		0.0972	ug/L	1	26-Mar-2024 14:15
Benz(a)anthracene	ND		0.0972	ug/L	1	26-Mar-2024 14:15
Benzo(a)pyrene	ND		0.0972	ug/L	1	26-Mar-2024 14:15
Benzo(b)fluoranthene	ND		0.0972	ug/L	1	26-Mar-2024 14:15
Benzo(g,h,i)perylene	ND		0.0972	ug/L	1	26-Mar-2024 14:15
Benzo(k)fluoranthene	ND		0.0972	ug/L	1	26-Mar-2024 14:15
Chrysene	ND		0.0972	ug/L	1	26-Mar-2024 14:15
Dibenz(a,h)anthracene	ND		0.0972	ug/L	1	26-Mar-2024 14:15
Fluoranthene	ND		0.0972	ug/L	1	26-Mar-2024 14:15
Fluorene	ND		0.0972	ug/L	1	26-Mar-2024 14:15
Indeno(1,2,3-cd)pyrene	ND		0.0972	ug/L	1	26-Mar-2024 14:15
Naphthalene	ND		0.0972	ug/L	1	26-Mar-2024 14:15
Phenanthrene	ND		0.0972	ug/L	1	26-Mar-2024 14:15
Pyrene	ND		0.0972	ug/L	1	26-Mar-2024 14:15
Surr: 2-Fluorobiphenyl	*54.8*		*32-130*	*%REC*	*1*	*26-Mar-2024 14:15*
Surr: 4-Terphenyl-d14	*59.6*		*40-135*	*%REC*	*1*	*26-Mar-2024 14:15*
Surr: Nitrobenzene-d5	*64.0*		*45-142*	*%REC*	*1*	*26-Mar-2024 14:15*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 26-Mar-24

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP
Project: 4C14018
WorkOrder: HS24030967

Batch ID: 209081 **Start Date:** 19 Mar 2024 16:30 **End Date:** 19 Mar 2024 16:30
Method: SW3511 **Prep Code:** 3511_PAH

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24030967-01		32.1 (mL)	2 (mL)	0.06231	40 mL Amber
HS24030967-02		32.9 (mL)	2 (mL)	0.06079	40 mL Amber
HS24030967-03		33.96 (mL)	2 (mL)	0.05889	40 mL Amber

ALS Houston, US Date: 26-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C14018
WorkOrder: HS24030967

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 209081 (0)	**Test Name :** LOW-LEVEL PAHS - 8270D				**Matrix:** Water	
HS24030967-01	4C14018-03	14 Mar 2024 11:52		19 Mar 2024 16:30	26 Mar 2024 13:34	1
HS24030967-02	4C14018-04	14 Mar 2024 10:16		19 Mar 2024 16:30	26 Mar 2024 13:55	1
HS24030967-03	4C14018-05	14 Mar 2024 09:40		19 Mar 2024 16:30	26 Mar 2024 14:15	1

ALS Houston, US Date: 26-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C14018
WorkOrder: HS24030967

QC BATCH REPORT

Batch ID: 209081 (0) **Instrument: SV-6** **Method: LOW-LEVEL PAHS - 8270D**

MBLK Sample ID: **MBLK-209081** Units: **ug/L** Analysis Date: **20-Mar-2024 21:31**
Client ID: Run ID: **SV-6_461980** SeqNo: **7902655** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	0.100								
2-Methylnaphthalene	ND	0.100								
Acenaphthene	ND	0.100								
Acenaphthylene	ND	0.100								
Anthracene	ND	0.100								
Benz(a)anthracene	ND	0.100								
Benzo(a)pyrene	ND	0.100								
Benzo(b)fluoranthene	ND	0.100								
Benzo(g,h,i)perylene	ND	0.100								
Benzo(k)fluoranthene	ND	0.100								
Chrysene	ND	0.100								
Dibenz(a,h)anthracene	ND	0.100								
Fluoranthene	ND	0.100								
Fluorene	ND	0.100								
Indeno(1,2,3-cd)pyrene	ND	0.100								
Naphthalene	ND	0.100								
Phenanthrene	ND	0.100								
Pyrene	ND	0.100								
Surr: 2-Fluorobiphenyl	*2.334*	*0.100*	*3.03*	*0*	*77.0*	*32 - 130*				
Surr: 4-Terphenyl-d14	*1.502*	*0.100*	*3.03*	*0*	*49.6*	*40 - 135*				
Surr: Nitrobenzene-d5	*2.041*	*0.100*	*3.03*	*0*	*67.4*	*45 - 142*				

ALS Houston, US Date: 26-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C14018
WorkOrder: HS24030967

QC BATCH REPORT

Batch ID: 209081 (0) **Instrument: SV-6** **Method: LOW-LEVEL PAHS - 8270D**

LCS Sample ID: **LCS-209081** Units: **ug/L** Analysis Date: **20-Mar-2024 21:51**
Client ID: Run ID: **SV-6_461980** SeqNo: **7902656** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	3.118	0.100	3.03	0	103	40 - 140				
2-Methylnaphthalene	2.266	0.100	3.03	0	74.8	40 - 140				
Acenaphthene	2.219	0.100	3.03	0	73.2	40 - 140				
Acenaphthylene	2.496	0.100	3.03	0	82.4	40 - 140				
Anthracene	2.694	0.100	3.03	0	88.9	40 - 140				
Benz(a)anthracene	2.263	0.100	3.03	0	74.7	40 - 140				
Benzo(a)pyrene	2.164	0.100	3.03	0	71.4	40 - 140				
Benzo(b)fluoranthene	2.319	0.100	3.03	0	76.5	40 - 140				
Benzo(g,h,i)perylene	2.639	0.100	3.03	0	87.1	40 - 140				
Benzo(k)fluoranthene	2.472	0.100	3.03	0	81.6	40 - 140				
Chrysene	1.966	0.100	3.03	0	64.9	40 - 140				
Dibenz(a,h)anthracene	3.117	0.100	3.03	0	103	40 - 140				
Fluoranthene	2.506	0.100	3.03	0	82.7	40 - 140				
Fluorene	2.475	0.100	3.03	0	81.7	40 - 140				
Indeno(1,2,3-cd)pyrene	2.752	0.100	3.03	0	90.8	40 - 140				
Naphthalene	3.058	0.100	3.03	0	101	40 - 140				
Phenanthrene	2.064	0.100	3.03	0	68.1	40 - 140				
Pyrene	1.673	0.100	3.03	0	55.2	40 - 140				
Surr: 2-Fluorobiphenyl	*2.167*	*0.100*	*3.03*	*0*	*71.5*	*32 - 130*				
Surr: 4-Terphenyl-d14	*1.748*	*0.100*	*3.03*	*0*	*57.7*	*40 - 135*				
Surr: Nitrobenzene-d5	*2.045*	*0.100*	*3.03*	*0*	*67.5*	*45 - 142*				

ALS Houston, US Date: 26-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C14018
WorkOrder: HS24030967

QC BATCH REPORT

Batch ID: 209081 (0) **Instrument: SV-6** **Method: LOW-LEVEL PAHS - 8270D**

LCSD Sample ID: **LCSD-209081** Units: **ug/L** Analysis Date: **20-Mar-2024 22:12**
Client ID: Run ID: **SV-6_461980** SeqNo: **7908504** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	2.958	0.100	3.03	0	97.6	40 - 140	3.118	5.26	25	
2-Methylnaphthalene	1.897	0.100	3.03	0	62.6	40 - 140	2.266	17.7	25	
Acenaphthene	1.778	0.100	3.03	0	58.7	40 - 140	2.219	22.1	25	
Acenaphthylene	2.017	0.100	3.03	0	66.6	40 - 140	2.496	21.3	25	
Anthracene	2.457	0.100	3.03	0	81.1	40 - 140	2.694	9.22	25	
Benz(a)anthracene	1.891	0.100	3.03	0	62.4	40 - 140	2.263	17.9	25	
Benzo(a)pyrene	1.9	0.100	3.03	0	62.7	40 - 140	2.164	13	25	
Benzo(b)fluoranthene	1.788	0.100	3.03	0	59.0	40 - 140	2.319	25.8	25	R
Benzo(g,h,i)perylene	1.762	0.100	3.03	0	58.2	40 - 140	2.639	39.8	25	R
Benzo(k)fluoranthene	1.887	0.100	3.03	0	62.3	40 - 140	2.472	26.8	25	R
Chrysene	1.745	0.100	3.03	0	57.6	40 - 140	1.966	11.9	25	
Dibenz(a,h)anthracene	2.446	0.100	3.03	0	80.7	40 - 140	3.117	24.1	25	
Fluoranthene	2.126	0.100	3.03	0	70.2	40 - 140	2.506	16.4	25	
Fluorene	1.989	0.100	3.03	0	65.6	40 - 140	2.475	21.8	25	
Indeno(1,2,3-cd)pyrene	1.968	0.100	3.03	0	65.0	40 - 140	2.752	33.2	25	R
Naphthalene	2.101	0.100	3.03	0	69.3	40 - 140	3.058	37.1	25	R
Phenanthrene	1.692	0.100	3.03	0	55.8	40 - 140	2.064	19.8	25	
Pyrene	1.522	0.100	3.03	0	50.2	40 - 140	1.673	9.43	25	
Surr: 2-Fluorobiphenyl	*1.696*	*0.100*	*3.03*	*0*	*56.0*	*32 - 130*	*2.167*	*24.4*	*25*	
Surr: 4-Terphenyl-d14	*1.434*	*0.100*	*3.03*	*0*	*47.3*	*40 - 135*	*1.748*	*19.7*	*25*	
Surr: Nitrobenzene-d5	*1.734*	*0.100*	*3.03*	*0*	*57.2*	*45 - 142*	*2.045*	*16.5*	*25*	

The following samples were analyzed in this batch: HS24030967-01 HS24030967-02 HS24030967-03

ALS Houston, US Date: 26-Mar-24

Client: Permian Basin Environmental Lab, LP
Project: 4C14018
WorkOrder: **HS24030967**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L22-90-R2	31-Mar-2024
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-32	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 26-Mar-24

Sample Receipt Checklist

Work Order ID: HS24030967 **Date/Time Received:** 19-Mar-2024 09:25

Client Name: Permian Basin Lab **Received by:** Jacob Coronado

Completed By: /S/ Belinda Gomez (eSignature) 19-Mar-2024 12:38 (Date/Time) **Reviewed by:** /S/ Anna Kinchen (eSignature) 20-Mar-2024 14:29 (Date/Time)

Matrices: w Carrier name: FedEx

	Yes	No	
Shipping container/cooler in good condition?	☑	☐	Not Present ☐
Custody seals intact on shipping container/cooler?	☐	☐	Not Present ☑
Custody seals intact on sample bottles?	☐	☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐	☐	Not Present ☑
Chain of custody present?	☑	☐	1 Page(s)
Chain of custody signed when relinquished and received?	☑	☐	
Samplers name present on COC?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	

Temperature(s)/Thermometer(s): 1.7uc/1.6c ir31

Cooler(s)/Kit(s): red

Date/Time sample(s) sent to storage: 3/19/24 1239

	Yes	No	
Water - VOA vials have zero headspace?	☑	☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	☐	☐	N/A ☑
pH adjusted?	☐	☐	N/A ☑

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent Barron

Company Name: PBEL

Company Address: 1400 Rankin HWY

City/State/Zip: Midland Texas 79701

Telephone No: 432-661-4184

Sampler Signature: N/A

HS24030967

Permian Basin Environmental Lab, LP
4C14018

e-mail: brentbarron@pbelab.com

Project Name: SUBCONTRACT

Project #:

Project Loc:

PO #:

Report Format: X Standard ☐ TRRP ☐ NPDES

ORDER #:

LAB # (lab use only)		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly t	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	$Na_2S_2O_3$	NONE 500 POLY	NONE 3 AMBER VOAA VIALS	Matrix: DW=Drinking Water SL-Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: 8270C PAH LL												24 HOUR RUSH	STANDARD
	4C14018-03			3/14/2024	11:52		3	X							X	W	X														X
	4C14018-04			3/14/2024	10:16		3	X							X	W	X														X
	4C14018-05			3/14/2024	9:40		3	X							X	W	X														X

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron	3/18/24	17:00			
Relinquished by:	3/19/24	9:25	Received by:		
Relinquished by:			Received by:		

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: °C
Adjusted: °C Factor

Rcd 1.7 1R91

ORIGIN ID:MAFC (432) 686-7235
SHEET BARROW
PSC LAB
1400 RANKIN HWY

MIDLAND, TX 79701
UNITED STATES US

SHIP DATE: 18MAR24
ACTWGT: 8.00 LB
CAD: 107136946/INET4535
DIMS: 13x9x9 IN

BILL RECIPIENT

TO SAMPLE RECEIVING
ALS-HOUSTON
10450 STANCLIFF RD

HOUSTON TX 77099
(281) 589-5815
REF:
INV:
PO:
DEPT:

583J208531919AE3

FedEx Express

TUE - 19 MAR 5:00P
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PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: CS CAYLOR

Project Number: SRS#2002-10250

Location: Lea County, NM

Lab Order Number: 4F12008

Current Certification

Report Date: 06/19/24

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-17A	4F12008-01	Water	06/11/24 10:35	06-12-2024 15:53
MW-16A	4F12008-02	Water	06/11/24 11:12	06-12-2024 15:53
MW-15A	4F12008-03	Water	06/11/24 11:57	06-12-2024 15:53
MW-14A	4F12008-04	Water	06/11/24 12:36	06-12-2024 15:53
MW-13A	4F12008-05	Water	06/11/24 13:41	06-12-2024 15:53
MW-18A	4F12008-06	Water	06/11/24 14:41	06-12-2024 15:53
MW-21	4F12008-07	Water	06/12/24 12:03	06-12-2024 15:53
MW-10A	4F12008-08	Water	06/12/24 10:45	06-12-2024 15:53
MW-9A	4F12008-09	Water	06/11/24 09:57	06-12-2024 15:53

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-17A

4F12008-01 (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	P4F1306	06/13/24 09:03	06/13/24 18:34	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 18:34	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 18:34	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 18:34	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 18:34	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P4F1306*	*06/13/24 09:03*	*06/13/24 18:34*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.1 %*	*80-120*		*P4F1306*	*06/13/24 09:03*	*06/13/24 18:34*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/13/24 09:03	06/13/24 18:34	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/13/24 09:03	06/13/24 18:34	EPA 8021B	

Talon LPE		Project:	CS CAYLOR
2901 S. State Hwy 349		Project Number:	SRS#2002-10250
Midland TX, 79706		Project Manager:	David Adkins

MW-16A

4F12008-02 (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	P4F1306	06/13/24 09:03	06/13/24 18:57	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 18:57	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 18:57	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 18:57	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 18:57	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P4F1306*	*06/13/24 09:03*	*06/13/24 18:57*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.9 %*	*80-120*		*P4F1306*	*06/13/24 09:03*	*06/13/24 18:57*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/13/24 09:03	06/13/24 18:57	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/13/24 09:03	06/13/24 18:57	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-15A

4F12008-03 (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	P4F1306	06/13/24 09:03	06/13/24 19:19	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 19:19	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 19:19	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 19:19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 19:19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P4F1306*	*06/13/24 09:03*	*06/13/24 19:19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.3 %*	*80-120*		*P4F1306*	*06/13/24 09:03*	*06/13/24 19:19*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/13/24 09:03	06/13/24 19:19	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/13/24 09:03	06/13/24 19:19	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-14A

4F12008-04 (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	P4F1306	06/13/24 09:03	06/13/24 19:41	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 19:41	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 19:41	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 19:41	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 19:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P4F1306*	*06/13/24 09:03*	*06/13/24 19:41*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.2 %*	*80-120*		*P4F1306*	*06/13/24 09:03*	*06/13/24 19:41*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/13/24 09:03	06/13/24 19:41	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/13/24 09:03	06/13/24 19:41	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-13A

4F12008-05 (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	P4F1306	06/13/24 09:03	06/13/24 20:03	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 20:03	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 20:03	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 20:03	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1306	06/13/24 09:03	06/13/24 20:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P4F1306*	*06/13/24 09:03*	*06/13/24 20:03*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.8 %*	*80-120*		*P4F1306*	*06/13/24 09:03*	*06/13/24 20:03*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/13/24 09:03	06/13/24 20:03	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/13/24 09:03	06/13/24 20:03	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-18A

4F12008-06 (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	P4F1404	06/14/24 15:16	06/14/24 19:22	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 19:22	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 19:22	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 19:22	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 19:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P4F1404*	*06/14/24 15:16*	*06/14/24 19:22*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.9 %*	*80-120*		*P4F1404*	*06/14/24 15:16*	*06/14/24 19:22*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 19:22	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 19:22	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-21

4F12008-07 (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	P4F1404	06/14/24 15:16	06/14/24 19:44	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 19:44	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 19:44	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 19:44	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 19:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P4F1404*	*06/14/24 15:16*	*06/14/24 19:44*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.0 %*	*80-120*		*P4F1404*	*06/14/24 15:16*	*06/14/24 19:44*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 19:44	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 19:44	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-10A

4F12008-08 (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	P4F1404	06/14/24 15:16	06/14/24 20:07	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 20:07	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 20:07	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 20:07	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 20:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P4F1404*	*06/14/24 15:16*	*06/14/24 20:07*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.1 %*	*80-120*		*P4F1404*	*06/14/24 15:16*	*06/14/24 20:07*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 20:07	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 20:07	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-9A

4F12008-09 (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	P4F1404	06/14/24 15:16	06/14/24 20:29	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 20:29	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 20:29	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 20:29	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/14/24 20:29	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P4F1404*	*06/14/24 15:16*	*06/14/24 20:29*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.3 %*	*80-120*		*P4F1404*	*06/14/24 15:16*	*06/14/24 20:29*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 20:29	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/14/24 20:29	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4F1306 - * DEFAULT PREP *****										
Blank (P4F1306-BLK1)				Prepared & Analyzed: 06/13/24						
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	*0.122*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.2*	*80-120*			
LCS (P4F1306-BS1)				Prepared & Analyzed: 06/13/24						
Benzene	0.115	0.00100	mg/L	0.100		115	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.231	0.00200	"	0.200		115	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.127*		*"*	*0.120*		*106*	*80-120*			
LCS Dup (P4F1306-BSD1)				Prepared & Analyzed: 06/13/24						
Benzene	0.113	0.00100	mg/L	0.100		113	80-120	1.68	20	
Toluene	0.105	0.00100	"	0.100		105	80-120	1.74	20	
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120	1.67	20	
Xylene (p/m)	0.227	0.00200	"	0.200		114	80-120	1.58	20	
Xylene (o)	0.100	0.00100	"	0.100		100	80-120	2.11	20	
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*104*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Calibration Blank (P4F1306-CCB1)				Prepared & Analyzed: 06/13/24						
Benzene	0.100		ug/l							
Toluene	0.100		"							
Ethylbenzene	0.0800		"							
Xylene (p/m)	0.200		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.1*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4F1306 - * DEFAULT PREP *****										
Calibration Blank (P4F1306-CCB2)				Prepared & Analyzed: 06/13/24						
Benzene	0.100		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.120		"							
Xylene (p/m)	0.230		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.0*	*80-120*			
Calibration Check (P4F1306-CCV1)				Prepared & Analyzed: 06/13/24						
Benzene	0.120	0.00100	mg/L	0.100		120	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.234	0.00200	"	0.200		117	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	*0.121*		*"*	*0.120*		*101*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.125*		*"*	*0.120*		*104*	*80-120*			
Calibration Check (P4F1306-CCV2)				Prepared & Analyzed: 06/13/24						
Benzene	0.112	0.00100	mg/L	0.100		112	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.0999	0.00100	"	0.100		99.9	80-120			
Xylene (p/m)	0.222	0.00200	"	0.200		111	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.120*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Calibration Check (P4F1306-CCV3)				Prepared & Analyzed: 06/13/24						
Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.125*		*"*	*0.120*		*104*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4F1306 - * DEFAULT PREP *****										
Matrix Spike (P4F1306-MS1)		**Source: 4F12006-09**		Prepared & Analyzed: 06/13/24						
Benzene	0.186	0.00100	mg/L	0.100	0.0924	93.9	80-120			
Toluene	0.128	0.00100	"	0.100	0.0137	115	80-120			
Ethylbenzene	0.122	0.00100	"	0.100	0.000780	121	80-120			QM-05
Xylene (p/m)	0.242	0.00200	"	0.200	0.00244	120	80-120			
Xylene (o)	0.107	0.00100	"	0.100	0.000920	106	80-120			
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Matrix Spike Dup (P4F1306-MSD1)		**Source: 4F12006-09**		Prepared & Analyzed: 06/13/24						
Benzene	0.214	0.00100	mg/L	0.100	0.0924	121	80-120	25.7	20	QM-05
Toluene	0.141	0.00100	"	0.100	0.0137	128	80-120	10.6	20	QM-05
Ethylbenzene	0.128	0.00100	"	0.100	0.000780	128	80-120	5.08	20	QM-05
Xylene (p/m)	0.250	0.00200	"	0.200	0.00244	124	80-120	3.24	20	QM-05
Xylene (o)	0.114	0.00100	"	0.100	0.000920	113	80-120	5.85	20	
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*101*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.127*		*"*	*0.120*		*106*	*80-120*			
Batch P4F1404 - * DEFAULT PREP *****										
Blank (P4F1404-BLK1)				Prepared & Analyzed: 06/14/24						
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*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*94.9*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4F1404 - * DEFAULT PREP *****										
LCS (P4F1404-BS1)				Prepared & Analyzed: 06/14/24						
Benzene	0.120	0.00100	mg/L	0.100		120	80-120			
Toluene	0.110	0.00100	"	0.100		110	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.128*		*"*	*0.120*		*106*	*80-120*			
LCS Dup (P4F1404-BSD1)				Prepared & Analyzed: 06/14/24						
Benzene	0.120	0.00100	mg/L	0.100		120	80-120	0.100	20	
Toluene	0.112	0.00100	"	0.100		112	80-120	1.91	20	
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120	0.500	20	
Xylene (p/m)	0.239	0.00200	"	0.200		120	80-120	1.48	20	
Xylene (o)	0.106	0.00100	"	0.100		106	80-120	0.480	20	
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.125*		*"*	*0.120*		*104*	*80-120*			
Calibration Blank (P4F1404-CCB1)				Prepared & Analyzed: 06/14/24						
Benzene	0.130		ug/l							
Toluene	0.160		"							
Ethylbenzene	0.180		"							
Xylene (p/m)	0.260		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.121*		*"*	*0.120*		*101*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.5*	*80-120*			
Calibration Blank (P4F1404-CCB2)				Prepared & Analyzed: 06/14/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.200		"							
Xylene (p/m)	0.220		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.9*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4F1404 - * DEFAULT PREP *****										
Calibration Blank (P4F1404-CCB3)				Prepared: 06/14/24 Analyzed: 06/15/24						
Benzene	0.250		ug/l							
Toluene	0.140		"							
Ethylbenzene	0.430		"							
Xylene (p/m)	0.480		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.7*	*80-120*			
Calibration Check (P4F1404-CCV1)				Prepared & Analyzed: 06/14/24						
Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.234	0.00200	"	0.200		117	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	*0.119*		*"*	*0.120*		*99.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.124*		*"*	*0.120*		*104*	*80-120*			
Calibration Check (P4F1404-CCV2)				Prepared & Analyzed: 06/14/24						
Benzene	0.115	0.00100	mg/L	0.100		115	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.238	0.00200	"	0.200		119	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Calibration Check (P4F1404-CCV3)				Prepared: 06/14/24 Analyzed: 06/15/24						
Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	*0.117*		*"*	*0.120*		*97.3*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.123*		*"*	*0.120*		*102*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4F1404 - * DEFAULT PREP *****										
Matrix Spike (P4F1404-MS1)		**Source: 4F12008-06**		Prepared: 06/14/24 Analyzed: 06/15/24						
Benzene	0.125	0.00100	mg/L	0.100	ND	125	80-120			QM-05
Toluene	0.116	0.00100	"	0.100	ND	116	80-120			
Ethylbenzene	0.138	0.00100	"	0.100	ND	138	80-120			QM-05
Xylene (p/m)	0.252	0.00200	"	0.200	ND	126	80-120			QM-05
Xylene (o)	0.112	0.00100	"	0.100	ND	112	80-120			
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.130*		*"*	*0.120*		*108*	*80-120*			
Matrix Spike Dup (P4F1404-MSD1)		**Source: 4F12008-06**		Prepared: 06/14/24 Analyzed: 06/15/24						
Benzene	0.113	0.00100	mg/L	0.100	ND	113	80-120	9.77	20	
Toluene	0.102	0.00100	"	0.100	ND	102	80-120	13.5	20	
Ethylbenzene	0.111	0.00100	"	0.100	ND	111	80-120	21.5	20	QM-05
Xylene (p/m)	0.217	0.00200	"	0.200	ND	109	80-120	14.9	20	
Xylene (o)	0.0945	0.00100	"	0.100	ND	94.5	80-120	16.9	20	
Surrogate: 4-Bromofluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
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: 6/19/2024

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; Kayla Taylor

Project Name: CS Caylor
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10250
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only)
ORDER #: 4F12008

Analyze For: TCLP: TOTAL:

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)	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-17A			6-11-24	10:35		3	3		3						GW			X		X
2	MW-16A			6-11-24	11:12		3	3		3						GW			X		X
3	MW-15A			6-11-24	11:57		3	3		3						GW			X		X
4	MW-14A			6-11-24	12:36		3	3		3						GW			X		X
5	MW-13A			6-11-24	1:41		3	3		3						GW			X		X
6	MW-18A			6-11-24	2:21		3	3		3						GW			X		X
7	MW-21			6-12-24	12:03		3	3		3						GW			X		X
8	MW-10A			6-12-24	10:45		3	3		3						GW			X		X
9	MW-9A			6-11-24	9:57		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
Kayla Taylor	6/12/24	15:53			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
			Trina Bledsoe	6/12/24	15:53

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: 4.8 °C Thermometer: NCF
Adjusted: °C Factor: 3

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

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: CS CAYLOR

Project Number: SRS#2002-10250

Location: Lea County, NM

Lab Order Number: 4F12009

Current Certification

Report Date: 07/05/24

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-21	4F12009-01	Water	06/12/24 12:03	06-12-2024 15:53
MW-10A	4F12009-02	Water	06/12/24 10:45	06-12-2024 15:53

Dissolved Iron and Manganese and RSK-175 analysis were subcontracted to ALS Houston. Their report is attached after the Chain of Custody. Their TCEQ TNI certification number can be found here:
https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-21

4F12009-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Ethane	ND	0.00100	mg/L	1	P4F2102	06/18/24 08:00	06/18/24 10:06	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P4F2102	06/18/24 08:00	06/18/24 10:06	8015M	SUB-13
Methane	**0.000541**	0.000500	mg/L	1	P4F2102	06/18/24 08:00	06/18/24 10:06	8015M	SUB-13
General Chemistry Parameters by EPA / Standard Methods									
Total Alkalinity	**65.0**	10.0	mg/L	1	P4F2510	06/25/24 15:46	07/03/24 15:46	EPA 310.1M	
Carbonate Alkalinity	ND	10.0	mg/L	1	P4F2510	06/25/24 15:46	07/03/24 15:46	EPA 310.1M	
Bicarbonate Alkalinity	**65.0**	10.0	mg/L	1	P4F2510	06/25/24 15:46	07/03/24 15:46	EPA 310.1M	
Hydroxide Alkalinity	ND	10.0	mg/L	1	P4F2510	06/25/24 15:46	07/03/24 15:46	EPA 310.1M	
Nitrate as N	**1.37**	0.200	mg/L	1	P4F1403	06/14/24 08:00	06/14/24 16:42	EPA 300.0	
Sulfate	**63.0**	1.00	mg/L	1	P4F1707	06/17/24 10:57	06/17/24 15:42	EPA 300.0	
Dissolved Metals by EPA / Standard Methods									
Iron	ND	0.200	mg/L	1	P4F2102	06/18/24 12:30	06/19/24 21:56	EPA 6020A	SUB-13
Manganese	**0.342**	0.00500	mg/L	1	P4F2102	06/18/24 12:30	06/19/24 21:56	EPA 6020A	SUB-13

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-10A

4F12009-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Ethane	ND	0.00100	mg/L	1	P4F2102	06/18/24 08:00	06/18/24 10:42	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P4F2102	06/18/24 08:00	06/18/24 10:42	8015M	SUB-13
Methane	**0.00107**	0.000500	mg/L	1	P4F2102	06/18/24 08:00	06/18/24 10:42	8015M	SUB-13
General Chemistry Parameters by EPA / Standard Methods									
Total Alkalinity	**58.0**	10.0	mg/L	1	P4F2510	06/25/24 15:46	07/03/24 15:46	EPA 310.1M	
Carbonate Alkalinity	ND	10.0	mg/L	1	P4F2510	06/25/24 15:46	07/03/24 15:46	EPA 310.1M	
Bicarbonate Alkalinity	**58.0**	10.0	mg/L	1	P4F2510	06/25/24 15:46	07/03/24 15:46	EPA 310.1M	
Hydroxide Alkalinity	ND	10.0	mg/L	1	P4F2510	06/25/24 15:46	07/03/24 15:46	EPA 310.1M	
Nitrate as N	**1.58**	0.200	mg/L	1	P4F1403	06/14/24 08:00	06/14/24 17:36	EPA 300.0	
Sulfate	**63.7**	1.00	mg/L	1	P4F1707	06/17/24 10:57	06/17/24 16:36	EPA 300.0	
Dissolved Metals by EPA / Standard Methods									
Iron	**0.576**	0.200	mg/L	1	P4F2102	06/18/24 12:30	06/19/24 22:17	EPA 6020A	SUB-13
Manganese	**0.0291**	0.00500	mg/L	1	P4F2102	06/18/24 12:30	06/19/24 22:17	EPA 6020A	SUB-13

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

General Chemistry Parameters by EPA / Standard Methods - 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 P4F1403 - * DEFAULT PREP *****										
Blank (P4F1403-BLK1)				Prepared & Analyzed: 06/14/24						
Nitrate as N	ND	0.200	mg/L							
LCS (P4F1403-BS1)				Prepared & Analyzed: 06/14/24						
Nitrate as N	18.4		mg/L	20.0		91.8	90-110			
LCS Dup (P4F1403-BSD1)				Prepared & Analyzed: 06/14/24						
Nitrate as N	19.7		mg/L	20.0		98.5	90-110	7.14	10	
Calibration Check (P4F1403-CCV1)				Prepared & Analyzed: 06/14/24						
Nitrate as N	21.7		mg/L	20.0		108	90-110			
Matrix Spike (P4F1403-MS1)		**Source: 4F12009-01**		Prepared & Analyzed: 06/14/24						
Nitrate as N	18.1		mg/L	20.0	0.274	89.3	80-120			
Matrix Spike Dup (P4F1403-MSD1)		**Source: 4F12009-01**		Prepared & Analyzed: 06/14/24						
Nitrate as N	25.0		mg/L	20.0	0.274	124	80-120	31.9	20	QM-05
Batch P4F1707 - * DEFAULT PREP *****										
Blank (P4F1707-BLK1)				Prepared & Analyzed: 06/17/24						
Sulfate	ND	1.00	mg/L							
LCS (P4F1707-BS1)				Prepared & Analyzed: 06/17/24						
Sulfate	20.4		mg/L	20.0		102	90-110			
LCS Dup (P4F1707-BSD1)				Prepared & Analyzed: 06/17/24						
Sulfate	20.4		mg/L	20.0		102	90-110	0.0688	10	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

General Chemistry Parameters by EPA / Standard Methods - 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 P4F1707 - * DEFAULT PREP *****										
Calibration Check (P4F1707-CCV1)				Prepared & Analyzed: 06/17/24						
Sulfate	20.4		mg/L	20.0		102	90-110			
Matrix Spike (P4F1707-MS1)		**Source: 4F12009-01**		Prepared & Analyzed: 06/17/24						
Sulfate	119		mg/L	100	12.6	107	80-120			
Matrix Spike Dup (P4F1707-MSD1)		**Source: 4F12009-01**		Prepared & Analyzed: 06/17/24						
Sulfate	120		mg/L	100	12.6	107	80-120	0.455	20	
Batch P4F2510 - * DEFAULT PREP *****										
Blank (P4F2510-BLK1)				Prepared: 06/25/24 Analyzed: 07/03/24						
Total Alkalinity	ND	10.0	mg/L							
Carbonate Alkalinity	ND	10.0	"							
Bicarbonate Alkalinity	ND	10.0	"							
Hydroxide Alkalinity	ND	10.0	"							
LCS (P4F2510-BS1)				Prepared: 06/25/24 Analyzed: 07/03/24						
Total Alkalinity	122	10.0	mg/L	125		97.6	80-120			
Carbonate Alkalinity	ND	10.0	"				80-120			
Bicarbonate Alkalinity	122	10.0	"				80-120			
Hydroxide Alkalinity	ND	10.0	"				80-120			
Duplicate (P4F2510-DUP1)		**Source: 4F19018-01**		Prepared: 06/25/24 Analyzed: 07/03/24						
Total Alkalinity	71.0	10.0	mg/L		88.0			21.4	20	R2
Carbonate Alkalinity	ND	10.0	"		ND				20	
Bicarbonate Alkalinity	71.0	10.0	"		88.0			21.4	20	R2
Hydroxide Alkalinity	ND	10.0	"		ND				20	

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Notes and Definitions

SUB-13	Subcontract of analyte/analysis to ALS Houston.
R2	The RPD exceeded the acceptance limit.
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: 7/5/2024

Brent Barron, Laboratory Director/Technical Director

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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; Kayla Taylor
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

Project Name: CS Caylor
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10250
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 4F12009

Analyze For: TCLP: TOTAL:

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	MNA Parameters	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
1	MW-21			6-12-24	12:03		5	5	1	3				1		GW				X		X
2	MW-10A			6-12-24	10:45		5	5	1	3				1		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
Kayla Taylor	6/12/24	15:53			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL: Diana Bledsoe	6/12/24	15:53

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: 4.8 °C Thermometer: NF
Adjusted: °C Factor: 13

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

June 20, 2024

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS24060934**

Laboratory Results for: **4F12009**

Dear Brent Barron,

ALS Environmental received 2 sample(s) on Jun 14, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Anna Kinchen
Project Manager

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F12009
Work Order: HS24060934

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24060934-01	4F12009-01	Water		12-Jun-2024 09:13	14-Jun-2024 09:20	☐
HS24060934-02	4F12009-02	Water		12-Jun-2024 10:45	14-Jun-2024 09:20	☐

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP **CASE NARRATIVE**
Project: 4F12009
Work Order: HS24060934

GC Semivolatiles by Method RSK-175

Batch ID: R469715

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 213727

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F12009
Sample ID: 4F12009-01
Collection Date: 12-Jun-2024 09:13

ANALYTICAL REPORT
WorkOrder:HS24060934
Lab ID:HS24060934-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		**Method:RSK-175**				Analyst: RG
Ethane	ND		1.00	ug/L	1	18-Jun-2024 10:06
Ethene	ND		1.00	ug/L	1	18-Jun-2024 10:06
Methane	**0.541**		**0.500**	**ug/L**	1	18-Jun-2024 10:06
DISSOLVED METALS BY SW6020A		**Method:SW6020A (dissolved)**		Prep:SW3010A / 18-Jun-2024		Analyst: MSC
Iron	ND		0.200	mg/L	1	19-Jun-2024 21:56
Manganese	**0.342**		**0.00500**	**mg/L**	1	19-Jun-2024 21:56

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F12009
Sample ID: 4F12009-02
Collection Date: 12-Jun-2024 10:45

ANALYTICAL REPORT
WorkOrder:HS24060934
Lab ID:HS24060934-02
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		**Method:RSK-175**				Analyst: RG
Ethane	ND		1.00	ug/L	1	18-Jun-2024 10:42
Ethene	ND		1.00	ug/L	1	18-Jun-2024 10:42
Methane	**1.07**		**0.500**	**ug/L**	1	18-Jun-2024 10:42
DISSOLVED METALS BY SW6020A		**Method:SW6020A (dissolved)**		Prep:SW3010A / 18-Jun-2024		Analyst: MSC
Iron	**0.576**		**0.200**	**mg/L**	1	19-Jun-2024 22:17
Manganese	**0.0291**		**0.00500**	**mg/L**	1	19-Jun-2024 22:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 20-Jun-24

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP
Project: 4F12009
WorkOrder: HS24060934

Batch ID: 213727 **Start Date:** 18 Jun 2024 12:30 **End Date:** 18 Jun 2024 12:30
Method: DISS METALS PREP - WATER - SW3010A **Prep Code:** 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060934-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS24060934-02		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F12009
WorkOrder: HS24060934

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 213727 (0)	**Test Name :** DISSOLVED METALS BY SW6020A				**Matrix:** Water	
HS24060934-01	4F12009-01	12 Jun 2024 09:13		18 Jun 2024 12:30	19 Jun 2024 21:56	1
HS24060934-02	4F12009-02	12 Jun 2024 10:45		18 Jun 2024 12:30	19 Jun 2024 22:17	1
Batch ID: R469715 (0)	**Test Name :** DISSOLVED GASES BY RSK-175				**Matrix:** Water	
HS24060934-01	4F12009-01	12 Jun 2024 09:13			18 Jun 2024 10:06	1
HS24060934-02	4F12009-02	12 Jun 2024 10:45			18 Jun 2024 10:42	1

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F12009
WorkOrder: HS24060934

QC BATCH REPORT

Batch ID: R469715 (0) **Instrument:** FID-4 **Method:** DISSOLVED GASES BY RSK-175

MBLK Sample ID: **MBLK-240618** Units: **ug/L** Analysis Date: **18-Jun-2024 08:27**
Client ID: Run ID: **FID-4_469715** SeqNo: **8082538** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	ND	1.00								
Ethene	ND	1.00								
Methane	ND	0.500								

LCS Sample ID: **LCS-240618** Units: **ug/L** Analysis Date: **18-Jun-2024 08:35**
Client ID: Run ID: **FID-4_469715** SeqNo: **8082539** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	14.47	1.00	18.04	0	80.2	75 - 125				
Ethene	14.68	1.00	16.8	0	87.4	75 - 125				
Methane	9.144	0.500	9.647	0	94.8	75 - 125				

LCSD Sample ID: **LCSD-240618** Units: **ug/L** Analysis Date: **18-Jun-2024 08:43**
Client ID: Run ID: **FID-4_469715** SeqNo: **8082540** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	14.5	1.00	18.04	0	80.4	75 - 125	14.47	0.193	30	
Ethene	14.79	1.00	16.8	0	88.0	75 - 125	14.68	0.769	30	
Methane	8.334	0.500	9.647	0	86.4	75 - 125	9.144	9.28	30	

MS Sample ID: **HS24061049-01MS** Units: **ug/L** Analysis Date: **18-Jun-2024 15:03**
Client ID: Run ID: **FID-4_469715** SeqNo: **8083666** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	19.4	1.00	18.04	0	108	75 - 125				
Ethene	18.72	1.00	16.8	0.5434	108	75 - 125				
Methane	10.37	0.500	9.647	0.5831	101	75 - 125				

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F12009
WorkOrder: HS24060934

QC BATCH REPORT

Batch ID: R469715 (0) **Instrument:** FID-4 **Method:** DISSOLVED GASES BY RSK-175

MSD Sample ID: **HS24061049-01MSD** Units: **ug/L** Analysis Date: **18-Jun-2024 15:29**
Client ID: Run ID: **FID-4_469715** SeqNo: **8085383** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	19.25	1.00	18.04	0	107	75 - 125	19.4	0.768	30	
Ethene	18.48	1.00	16.8	0.5434	107	75 - 125	18.72	1.29	30	
Methane	10.73	0.500	9.647	0.5831	105	75 - 125	10.37	3.4	30	

The following samples were analyzed in this batch: HS24060934-01 HS24060934-02

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F12009
WorkOrder: HS24060934

QC BATCH REPORT

Batch ID: 213727 (0) **Instrument:** ICPMS05 **Method:** DISSOLVED METALS BY SW6020A (DISSOLVED)

MBLK Sample ID: **MBLK-213727** Units: **mg/L** Analysis Date: **19-Jun-2024 21:52**
Client ID: Run ID: **ICPMS05_469847** SeqNo: **8086945** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	ND	0.200								
Manganese	ND	0.00500								

LCS Sample ID: **LCS-213727** Units: **mg/L** Analysis Date: **19-Jun-2024 21:54**
Client ID: Run ID: **ICPMS05_469847** SeqNo: **8086946** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.871	0.200	5	0	97.4	80 - 120				
Manganese	0.04565	0.00500	0.05	0	91.3	80 - 120				

MS Sample ID: **HS24060934-01MS** Units: **mg/L** Analysis Date: **19-Jun-2024 22:00**
Client ID: **4F12009-01** Run ID: **ICPMS05_469847** SeqNo: **8086942** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.804	0.200	5	0.03725	95.3	75 - 125				
Manganese	0.3743	0.00500	0.05	0.3419	64.8	75 - 125				SO

MSD Sample ID: **HS24060934-01MSD** Units: **mg/L** Analysis Date: **19-Jun-2024 22:02**
Client ID: **4F12009-01** Run ID: **ICPMS05_469847** SeqNo: **8086943** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.989	0.200	5	0.03725	99.0	75 - 125	4.804	3.77	20	
Manganese	0.3783	0.00500	0.05	0.3419	72.7	75 - 125	0.3743	1.05	20	SO

PDS Sample ID: **HS24060934-01PDS** Units: **mg/L** Analysis Date: **19-Jun-2024 22:04**
Client ID: **4F12009-01** Run ID: **ICPMS05_469847** SeqNo: **8086944** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	9.649	0.200	10	0.03725	96.1	75 - 125				
Manganese	0.4202	0.00500	0.1	0.3419	78.3	75 - 125				

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F12009
WorkOrder: HS24060934

QC BATCH REPORT

Batch ID: 213727 (0) **Instrument:** ICPMS05 **Method:** DISSOLVED METALS BY SW6020A (DISSOLVED)

SD Sample ID: **HS24060934-01SD** Units: **mg/L** Analysis Date: **19-Jun-2024 21:58**
Client ID: **4F12009-01** Run ID: **ICPMS05_469847** SeqNo: **8086948** PrepDate: **18-Jun-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Iron	ND	1.00					0.03725	0	10	
Manganese	0.3588	0.0250					0.3419	4.92	10	

The following samples were analyzed in this batch: HS24060934-01 HS24060934-02

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F12009
WorkOrder: **HS24060934**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 20-Jun-24

Sample Receipt Checklist

Work Order ID: HS24060934 **Date/Time Received:** 14-Jun-2024 09:20

Client Name: Permian Basin Lab **Received by:** Si Ma

Completed By: /S/ Hoa Tran (eSignature) 14-Jun-2024 18:45 (Date/Time) **Reviewed by:** /S/ Anna Kinchen (eSignature) 18-Jun-2024 09:46 (Date/Time)

Matrices: w Carrier name: FedEx

	Yes	No	Not Present
Shipping container/cooler in good condition?	☑	☐	☐
Custody seals intact on shipping container/cooler?	☐	☐	☑
Custody seals intact on sample bottles?	☐	☐	☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐	☐	☑
Chain of custody present?	☑	☐	1 Page(s)
Chain of custody signed when relinquished and received?	☐	☑	
Samplers name present on COC?	☐	☑	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	

Temperature(s)/Thermometer(s): 4.3uc/4.4c ir31

Cooler(s)/Kit(s): red

Date/Time sample(s) sent to storage: 06/14/2024 1846

	Yes	No	
Water - VOA vials have zero headspace?	☑	☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	☑	☐	N/A ☐
pH adjusted?	☐	☑	N/A ☐

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent Barron
Company Name: PBEL
Company Address: 1400 Rankin HWY
City/State/Zip: Midland Texas 79701
Telephone No: 432-661-4184
Fax No:
Sampler Signature: N/A
e-mail: brentbarron@pbelab.com

Project Name: SUBCONTRACT
Project #:
Project Loc:
PO #:
Report Format: X Standard ☐ TRRP ☐ NPDES

ORDER #:

LAB # (lab use only)		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly 1	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	NaOH/Zn	NONE 500ML POLY 250 ML POLY 500 ML W/M AMBER GLASS	NONE	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP- Non-Potable Specify Other	RSK SOP-175	Mn DISS ICP-MS 6020A	Fe DISS ICP-MS 6020A			24 HOUR RUSH	STANDARD
	4F12009-01			6/12/2024	9:13		3	X	X	X						W	X	X	X				X
	4F12009-02			6/12/2024	10:45		3	X	X	X						W	X	X	X				X

HS24060934
Permian Basin Environmental Lab, LP
4F12009

Cooler on Ice Temp 4.3 2024-41 CF+0-1

BRENT BARRON	6/13/2024	5:00 PM	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: Sam	Date 06/14/24	Time 09:20
Relinquished by:	Date	Time	Received by:	Date	Time

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: °C
Adjusted: °C Factor

ORIGIN ID:MIDFA (432) 687-7235
BRENT BARRON
PBE LAB
1420 RANKIN HWY
MIDLAND, TX 79701
UNITED STATES US

SHIP DATE: 13JUN24
ACTWGT: 10.00 LB
CAD: 1871396/INET4535
DIMS: 13x8x8 IN

BILL RECIPIENT

TO **SAMPLE RECEIVING**
ALS-HOUSTON
10450 STANCLIFF RD
HOUSTON TX 77099
(281) 530-5656
INV:
PO:
REF:
DEPT:

583JB21DJ9459

FedEx Express

TRK# 7768 5731 1607

AB SGRA

FRI - 14 JUN 5:00P
STANDARD OVERNIGHT
77099
TX-US IAH

After printing this label:
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1. Fold the dotted page along the horizontal line
2. Place label in shipping pouch and affix it to your shipment

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: CS CAYLOR

Project Number: SRS#2002-10250

Location: Lea County, NM

Lab Order Number: 4F13017

Current Certification

Report Date: 06/19/24

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-11A	4F13017-01	Water	06/13/24 09:13	06-13-2024 15:33
MW-6A	4F13017-02	Water	06/13/24 10:21	06-13-2024 15:33

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-11A

4F13017-01 (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	P4F1404	06/14/24 15:16	06/15/24 00:52	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/15/24 00:52	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/15/24 00:52	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1404	06/14/24 15:16	06/15/24 00:52	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/15/24 00:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P4F1404*	*06/14/24 15:16*	*06/15/24 00:52*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.5 %*	*80-120*		*P4F1404*	*06/14/24 15:16*	*06/15/24 00:52*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/15/24 00:52	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/15/24 00:52	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-6A

4F13017-02 (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	P4F1404	06/14/24 15:16	06/15/24 01:14	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/15/24 01:14	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/15/24 01:14	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4F1404	06/14/24 15:16	06/15/24 01:14	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4F1404	06/14/24 15:16	06/15/24 01:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P4F1404*	*06/14/24 15:16*	*06/15/24 01:14*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.6 %*	*80-120*		*P4F1404*	*06/14/24 15:16*	*06/15/24 01:14*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/15/24 01:14	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/14/24 15:16	06/15/24 01:14	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4F1404 - * DEFAULT PREP *****										
Blank (P4F1404-BLK1)				Prepared & Analyzed: 06/14/24						
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*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*94.9*	*80-120*			
LCS (P4F1404-BS1)				Prepared & Analyzed: 06/14/24						
Benzene	0.120	0.00100	mg/L	0.100		120	80-120			
Toluene	0.110	0.00100	"	0.100		110	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.128*		*"*	*0.120*		*106*	*80-120*			
LCS Dup (P4F1404-BSD1)				Prepared & Analyzed: 06/14/24						
Benzene	0.120	0.00100	mg/L	0.100		120	80-120	0.100	20	
Toluene	0.112	0.00100	"	0.100		112	80-120	1.91	20	
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120	0.500	20	
Xylene (p/m)	0.239	0.00200	"	0.200		120	80-120	1.48	20	
Xylene (o)	0.106	0.00100	"	0.100		106	80-120	0.480	20	
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.125*		*"*	*0.120*		*104*	*80-120*			
Calibration Blank (P4F1404-CCB1)				Prepared & Analyzed: 06/14/24						
Benzene	0.130		ug/l							
Toluene	0.160		"							
Ethylbenzene	0.180		"							
Xylene (p/m)	0.260		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.121*		*"*	*0.120*		*101*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.5*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4F1404 - * DEFAULT PREP *****										
Calibration Blank (P4F1404-CCB2)				Prepared & Analyzed: 06/14/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.200		"							
Xylene (p/m)	0.220		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.9*	*80-120*			
Calibration Blank (P4F1404-CCB3)				Prepared: 06/14/24 Analyzed: 06/15/24						
Benzene	0.250		ug/l							
Toluene	0.140		"							
Ethylbenzene	0.430		"							
Xylene (p/m)	0.480		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.7*	*80-120*			
Calibration Check (P4F1404-CCV1)				Prepared & Analyzed: 06/14/24						
Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.234	0.00200	"	0.200		117	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	*0.119*		*"*	*0.120*		*99.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.124*		*"*	*0.120*		*104*	*80-120*			
Calibration Check (P4F1404-CCV2)				Prepared & Analyzed: 06/14/24						
Benzene	0.115	0.00100	mg/L	0.100		115	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.238	0.00200	"	0.200		119	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4F1404 - * DEFAULT PREP *****										
Calibration Check (P4F1404-CCV3)				Prepared: 06/14/24 Analyzed: 06/15/24						
Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	*0.117*		*"*	*0.120*		*97.3*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.123*		*"*	*0.120*		*102*	*80-120*			
Matrix Spike (P4F1404-MS1)		**Source: 4F12008-06**		Prepared: 06/14/24 Analyzed: 06/15/24						
Benzene	0.125	0.00100	mg/L	0.100	ND	125	80-120			QM-05
Toluene	0.116	0.00100	"	0.100	ND	116	80-120			
Ethylbenzene	0.138	0.00100	"	0.100	ND	138	80-120			QM-05
Xylene (p/m)	0.252	0.00200	"	0.200	ND	126	80-120			QM-05
Xylene (o)	0.112	0.00100	"	0.100	ND	112	80-120			
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.130*		*"*	*0.120*		*108*	*80-120*			
Matrix Spike Dup (P4F1404-MSD1)		**Source: 4F12008-06**		Prepared: 06/14/24 Analyzed: 06/15/24						
Benzene	0.113	0.00100	mg/L	0.100	ND	113	80-120	9.77	20	
Toluene	0.102	0.00100	"	0.100	ND	102	80-120	13.5	20	
Ethylbenzene	0.111	0.00100	"	0.100	ND	111	80-120	21.5	20	QM-05
Xylene (p/m)	0.217	0.00200	"	0.200	ND	109	80-120	14.9	20	
Xylene (o)	0.0945	0.00100	"	0.100	ND	94.5	80-120	16.9	20	
Surrogate: 4-Bromofluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
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: 6/19/2024

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
Sampler Signature: Kayla Taylor

Project Name: CS Caylor
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10250
Fax No: _____
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only)
ORDER #: 4F13017

Analyze For: TCLP: / TOTAL:

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)	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-11A			6-13-24	9:13		3	3		3						GW			X		X
2	MW-6A			6-13-24	10:21		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
Kayla Taylor	6/13/24	15:33			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
			Tina Bledsoe	6/13/24	15:33

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: 3.7 °C Thermometer: NCF
Adjusted: °C Factor: L3

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

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: CS CAYLOR

Project Number: SRS#2002-10250

Location: Lea County, NM

Lab Order Number: 4F13018

Current Certification

Report Date: 07/05/24

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-11A	4F13018-01	Water	06/13/24 09:13	06-13-2024 15:33
MW-6A	4F13018-02	Water	06/13/24 10:21	06-13-2024 15:33

Dissolved Iron and Manganese and RSK-175 analysis were subcontracted to ALS Houston. Their report is attached after the Chain of Custody. Their TCEQ TNI certification number can be found here:
https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-11A

4F13018-01 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Ethane	ND	0.00100	mg/L	1	P4F2101	06/17/24 10:53	06/17/24 10:53	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P4F2101	06/17/24 10:53	06/17/24 10:53	8015M	SUB-13
Methane	**0.00125**	0.000500	mg/L	1	P4F2101	06/17/24 10:53	06/17/24 10:53	8015M	SUB-13
General Chemistry Parameters by EPA / Standard Methods									
Total Alkalinity	**70.0**	10.0	mg/L	1	P4F2510	06/25/24 15:46	07/03/24 15:46	EPA 310.1M	
Carbonate Alkalinity	ND	10.0	mg/L	1	P4F2510	06/25/24 15:46	07/03/24 15:46	EPA 310.1M	
Bicarbonate Alkalinity	**70.0**	10.0	mg/L	1	P4F2510	06/25/24 15:46	07/03/24 15:46	EPA 310.1M	
Hydroxide Alkalinity	ND	10.0	mg/L	1	P4F2510	06/25/24 15:46	07/03/24 15:46	EPA 310.1M	
Nitrate as N	**1.38**	0.200	mg/L	1	P4F1403	06/14/24 14:27	06/14/24 17:54	EPA 300.0	
Sulfate	**63.6**	1.00	mg/L	1	P4F1707	06/17/24 10:57	06/17/24 16:54	EPA 300.0	
Dissolved Metals by EPA / Standard Methods									
Iron	**0.488**	0.200	mg/L	1	P4F2101	06/18/24 12:30	06/19/24 22:30	EPA 6020A	SUB-13
Manganese	**0.0106**	0.00500	mg/L	1	P4F2101	06/18/24 12:30	06/19/24 22:30	EPA 6020A	SUB-13

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-6A

4F13018-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Ethane	ND	0.00100	mg/L	1	P4F2101	06/21/24 09:24	06/21/24 09:24	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P4F2101	06/21/24 09:24	06/21/24 09:24	8015M	SUB-13
Methane	**0.00104**	0.000500	mg/L	1	P4F2101	06/21/24 09:24	06/21/24 09:24	8015M	SUB-13
General Chemistry Parameters by EPA / Standard Methods									
Total Alkalinity	**79.0**	10.0	mg/L	1	P4F2510	06/25/24 15:46	07/03/24 15:46	EPA 310.1M	
Carbonate Alkalinity	ND	10.0	mg/L	1	P4F2510	06/25/24 15:46	07/03/24 15:46	EPA 310.1M	
Bicarbonate Alkalinity	**79.0**	10.0	mg/L	1	P4F2510	06/25/24 15:46	07/03/24 15:46	EPA 310.1M	
Hydroxide Alkalinity	ND	10.0	mg/L	1	P4F2510	06/25/24 15:46	07/03/24 15:46	EPA 310.1M	
Nitrate as N	**1.82**	0.200	mg/L	1	P4F1403	06/14/24 14:27	06/14/24 18:12	EPA 300.0	
Sulfate	**59.1**	1.00	mg/L	1	P4F1707	06/17/24 10:57	06/17/24 17:12	EPA 300.0	
Dissolved Metals by EPA / Standard Methods									
Iron	ND	0.200	mg/L	1	P4F2101	06/18/24 12:30	06/19/24 22:32	EPA 6020A	SUB-13
Manganese	**0.00862**	0.00500	mg/L	1	P4F2101	06/18/24 12:30	06/19/24 22:32	EPA 6020A	SUB-13

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

General Chemistry Parameters by EPA / Standard Methods - 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 P4F1403 - * DEFAULT PREP *****										
Blank (P4F1403-BLK1)				Prepared & Analyzed: 06/14/24						
Nitrate as N	ND	0.200	mg/L							
LCS (P4F1403-BS1)				Prepared & Analyzed: 06/14/24						
Nitrate as N	18.4		mg/L	20.0		91.8	90-110			
LCS Dup (P4F1403-BSD1)				Prepared & Analyzed: 06/14/24						
Nitrate as N	19.7		mg/L	20.0		98.5	90-110	7.14	10	
Calibration Check (P4F1403-CCV1)				Prepared & Analyzed: 06/14/24						
Nitrate as N	21.7		mg/L	20.0		108	90-110			
Matrix Spike (P4F1403-MS1)		**Source: 4F12009-01**		Prepared & Analyzed: 06/14/24						
Nitrate as N	18.1		mg/L	20.0	0.274	89.3	80-120			
Matrix Spike Dup (P4F1403-MSD1)		**Source: 4F12009-01**		Prepared & Analyzed: 06/14/24						
Nitrate as N	25.0		mg/L	20.0	0.274	124	80-120	31.9	20	QM-05
Batch P4F1707 - * DEFAULT PREP *****										
Blank (P4F1707-BLK1)				Prepared & Analyzed: 06/17/24						
Sulfate	ND	1.00	mg/L							
LCS (P4F1707-BS1)				Prepared & Analyzed: 06/17/24						
Sulfate	20.4		mg/L	20.0		102	90-110			
LCS Dup (P4F1707-BSD1)				Prepared & Analyzed: 06/17/24						
Sulfate	20.4		mg/L	20.0		102	90-110	0.0688	10	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

General Chemistry Parameters by EPA / Standard Methods - 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 P4F1707 - * DEFAULT PREP *****										
Calibration Check (P4F1707-CCV1)				Prepared & Analyzed: 06/17/24						
Sulfate	20.4		mg/L	20.0		102	90-110			
Matrix Spike (P4F1707-MS1)		**Source: 4F12009-01**		Prepared & Analyzed: 06/17/24						
Sulfate	119		mg/L	100	12.6	107	80-120			
Matrix Spike Dup (P4F1707-MSD1)		**Source: 4F12009-01**		Prepared & Analyzed: 06/17/24						
Sulfate	120		mg/L	100	12.6	107	80-120	0.455	20	
Batch P4F2510 - * DEFAULT PREP *****										
Blank (P4F2510-BLK1)				Prepared: 06/25/24 Analyzed: 07/03/24						
Total Alkalinity	ND	10.0	mg/L							
Carbonate Alkalinity	ND	10.0	"							
Bicarbonate Alkalinity	ND	10.0	"							
Hydroxide Alkalinity	ND	10.0	"							
LCS (P4F2510-BS1)				Prepared: 06/25/24 Analyzed: 07/03/24						
Total Alkalinity	122	10.0	mg/L	125		97.6	80-120			
Carbonate Alkalinity	ND	10.0	"				80-120			
Bicarbonate Alkalinity	122	10.0	"				80-120			
Hydroxide Alkalinity	ND	10.0	"				80-120			
Duplicate (P4F2510-DUP1)		**Source: 4F19018-01**		Prepared: 06/25/24 Analyzed: 07/03/24						
Total Alkalinity	71.0	10.0	mg/L		88.0			21.4	20	R2
Carbonate Alkalinity	ND	10.0	"		ND				20	
Bicarbonate Alkalinity	71.0	10.0	"		88.0			21.4	20	R2
Hydroxide Alkalinity	ND	10.0	"		ND				20	

Talon LPE		Project:	CS CAYLOR
2901 S. State Hwy 349		Project Number:	SRS#2002-10250
Midland TX, 79706		Project Manager:	David Adkins

Notes and Definitions

SUB-13	Subcontract of analyte/analysis to ALS Houston.
ROI	Received on Ice
R2	The RPD exceeded the acceptance limit.
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: 7/5/2024

Brent Barron, Laboratory Director/Technical Director

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

BELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

L: ____ CH: ____ W: ____

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

Project Name: CS Caylor
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10250
Report Format: ☐ Standard ☐ TRRP ☐ NPD

(lab use only)
ORDER #: 4F13018

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	MNA Parameters
1	MW-11A			6-13-24	9:13		5	5	1	3				1		GW				X
2	MW-6A			6-13-24	10:21		5	5	1	3				1		GW				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
Kayla Taylor	6/13/24	15:33			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL: Chrisa Bledsoe	Date	

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

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

June 20, 2024

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS24060936**

Laboratory Results for: **4F13018**

Dear Brent Barron,

ALS Environmental received 2 sample(s) on Jun 14, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Anna Kinchen
Project Manager

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F13018
Work Order: HS24060936

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24060936-01	4F13018-01	Water		03-Jun-2024 09:13	14-Jun-2024 09:20	☐
HS24060936-02	4F13018-02	Water		12-Jun-2024 14:00	14-Jun-2024 09:20	☐

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP **CASE NARRATIVE**
Project: 4F13018
Work Order: HS24060936

GC Semivolatiles by Method RSK-175

Batch ID: R469585,R469715

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 213727

Sample ID: HS24060934-01MS

- MS and MSD are for an unrelated sample

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F13018
Sample ID: 4F13018-01
Collection Date: 03-Jun-2024 09:13

ANALYTICAL REPORT
WorkOrder:HS24060936
Lab ID:HS24060936-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		**Method:RSK-175**				Analyst: RG
Ethane	ND		1.00	ug/L	1	17-Jun-2024 10:53
Ethene	ND		1.00	ug/L	1	17-Jun-2024 10:53
Methane	**1.25**		**0.500**	**ug/L**	1	17-Jun-2024 10:53
DISSOLVED METALS BY SW6020A		**Method:SW6020A (dissolved)**		Prep:SW3010A / 18-Jun-2024		Analyst: MSC
Iron	**0.488**		**0.200**	**mg/L**	1	19-Jun-2024 22:30
Manganese	**0.0106**		**0.00500**	**mg/L**	1	19-Jun-2024 22:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F13018
Sample ID: 4F13018-02
Collection Date: 12-Jun-2024 14:00

ANALYTICAL REPORT
WorkOrder:HS24060936
Lab ID:HS24060936-02
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		**Method:RSK-175**				Analyst: RG
Ethane	ND		1.00	ug/L	1	18-Jun-2024 10:50
Ethene	ND		1.00	ug/L	1	18-Jun-2024 10:50
Methane	**1.04**		**0.500**	**ug/L**	1	18-Jun-2024 10:50
DISSOLVED METALS BY SW6020A		**Method:SW6020A (dissolved)**		Prep:SW3010A / 18-Jun-2024		Analyst: MSC
Iron	ND		0.200	mg/L	1	19-Jun-2024 22:32
Manganese	**0.00862**		**0.00500**	**mg/L**	1	19-Jun-2024 22:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 20-Jun-24

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP
Project: 4F13018
WorkOrder: HS24060936

Batch ID: 213727 **Start Date:** 18 Jun 2024 12:30 **End Date:** 18 Jun 2024 12:30
Method: DISS METALS PREP - WATER - SW3010A **Prep Code:** 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060936-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS24060936-02		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F13018
WorkOrder: HS24060936

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 213727 (0)	**Test Name :** DISSOLVED METALS BY SW6020A				**Matrix:** Water	
HS24060936-01	4F13018-01	03 Jun 2024 09:13		18 Jun 2024 12:30	19 Jun 2024 22:30	1
HS24060936-02	4F13018-02	12 Jun 2024 14:00		18 Jun 2024 12:30	19 Jun 2024 22:32	1
Batch ID: R469585 (0)	**Test Name :** DISSOLVED GASES BY RSK-175				**Matrix:** Water	
HS24060936-01	4F13018-01	03 Jun 2024 09:13			17 Jun 2024 10:53	1
Batch ID: R469715 (0)	**Test Name :** DISSOLVED GASES BY RSK-175				**Matrix:** Water	
HS24060936-02	4F13018-02	12 Jun 2024 14:00			18 Jun 2024 10:50	1

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F13018
WorkOrder: HS24060936

QC BATCH REPORT

Batch ID: R469585 (0) **Instrument:** FID-4 **Method:** DISSOLVED GASES BY RSK-175

MBLK Sample ID: **MBLK-240617** Units: **ug/L** Analysis Date: **17-Jun-2024 10:04**
Client ID: Run ID: **FID-4_469585** SeqNo: **8073962** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	ND	1.00								
Ethene	ND	1.00								
Methane	ND	0.500								

LCS Sample ID: **LCS-240617** Units: **ug/L** Analysis Date: **17-Jun-2024 10:28**
Client ID: Run ID: **FID-4_469585** SeqNo: **8073963** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	14.56	1.00	18.04	0	80.7	75 - 125				
Ethene	15.07	1.00	16.8	0	89.7	75 - 125				
Methane	8.514	0.500	9.647	0	88.3	75 - 125				

LCSD Sample ID: **LCSD-240617** Units: **ug/L** Analysis Date: **17-Jun-2024 10:37**
Client ID: Run ID: **FID-4_469585** SeqNo: **8073964** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	14.95	1.00	18.04	0	82.9	75 - 125	14.56	2.63	30	
Ethene	15.54	1.00	16.8	0	92.5	75 - 125	15.07	3.04	30	
Methane	8.279	0.500	9.647	0	85.8	75 - 125	8.514	2.81	30	

The following samples were analyzed in this batch: HS24060936-01

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F13018
WorkOrder: HS24060936

QC BATCH REPORT

Batch ID: R469715 (0) **Instrument:** FID-4 **Method:** DISSOLVED GASES BY RSK-175

MBLK Sample ID: **MBLK-240618** Units: **ug/L** Analysis Date: **18-Jun-2024 08:27**
Client ID: Run ID: **FID-4_469715** SeqNo: **8082538** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	ND	1.00								
Ethene	ND	1.00								
Methane	ND	0.500								

LCS Sample ID: **LCS-240618** Units: **ug/L** Analysis Date: **18-Jun-2024 08:35**
Client ID: Run ID: **FID-4_469715** SeqNo: **8082539** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	14.47	1.00	18.04	0	80.2	75 - 125				
Ethene	14.68	1.00	16.8	0	87.4	75 - 125				
Methane	9.144	0.500	9.647	0	94.8	75 - 125				

LCSD Sample ID: **LCSD-240618** Units: **ug/L** Analysis Date: **18-Jun-2024 08:43**
Client ID: Run ID: **FID-4_469715** SeqNo: **8082540** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	14.5	1.00	18.04	0	80.4	75 - 125	14.47	0.193	30	
Ethene	14.79	1.00	16.8	0	88.0	75 - 125	14.68	0.769	30	
Methane	8.334	0.500	9.647	0	86.4	75 - 125	9.144	9.28	30	

MS Sample ID: **HS24061049-01MS** Units: **ug/L** Analysis Date: **18-Jun-2024 15:03**
Client ID: Run ID: **FID-4_469715** SeqNo: **8083666** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	19.4	1.00	18.04	0	108	75 - 125				
Ethene	18.72	1.00	16.8	0.5434	108	75 - 125				
Methane	10.37	0.500	9.647	0.5831	101	75 - 125				

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F13018
WorkOrder: HS24060936

QC BATCH REPORT

Batch ID: R469715 (0) **Instrument:** FID-4 **Method:** DISSOLVED GASES BY RSK-175

MSD Sample ID: **HS24061049-01MSD** Units: **ug/L** Analysis Date: **18-Jun-2024 15:29**
Client ID: Run ID: **FID-4_469715** SeqNo: **8085383** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	19.25	1.00	18.04	0	107	75 - 125	19.4	0.768	30	
Ethene	18.48	1.00	16.8	0.5434	107	75 - 125	18.72	1.29	30	
Methane	10.73	0.500	9.647	0.5831	105	75 - 125	10.37	3.4	30	

The following samples were analyzed in this batch: HS24060936-02

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F13018
WorkOrder: HS24060936

QC BATCH REPORT

Batch ID: 213727 (0) **Instrument: ICPMS05** **Method: DISSOLVED METALS BY SW6020A (DISSOLVED)**

MBLK Sample ID: **MBLK-213727** Units: **mg/L** Analysis Date: **19-Jun-2024 21:52**
Client ID: Run ID: **ICPMS05_469847** SeqNo: **8086945** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	ND	0.200								
Manganese	ND	0.00500								

LCS Sample ID: **LCS-213727** Units: **mg/L** Analysis Date: **19-Jun-2024 21:54**
Client ID: Run ID: **ICPMS05_469847** SeqNo: **8086946** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.871	0.200	5	0	97.4	80 - 120				
Manganese	0.04565	0.00500	0.05	0	91.3	80 - 120				

MS Sample ID: **HS24060934-01MS** Units: **mg/L** Analysis Date: **19-Jun-2024 22:00**
Client ID: Run ID: **ICPMS05_469847** SeqNo: **8086942** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.804	0.200	5	0.03725	95.3	75 - 125				
Manganese	0.3743	0.00500	0.05	0.3419	64.8	75 - 125				SO

MSD Sample ID: **HS24060934-01MSD** Units: **mg/L** Analysis Date: **19-Jun-2024 22:02**
Client ID: Run ID: **ICPMS05_469847** SeqNo: **8086943** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.989	0.200	5	0.03725	99.0	75 - 125	4.804	3.77	20	
Manganese	0.3783	0.00500	0.05	0.3419	72.7	75 - 125	0.3743	1.05	20	SO

PDS Sample ID: **HS24060934-01PDS** Units: **mg/L** Analysis Date: **19-Jun-2024 22:04**
Client ID: Run ID: **ICPMS05_469847** SeqNo: **8086944** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	9.649	0.200	10	0.03725	96.1	75 - 125				
Manganese	0.4202	0.00500	0.1	0.3419	78.3	75 - 125				

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F13018
WorkOrder: HS24060936

QC BATCH REPORT

Batch ID: 213727 (0) **Instrument:** ICPMS05 **Method:** DISSOLVED METALS BY SW6020A (DISSOLVED)

SD Sample ID: **HS24060934-01SD** Units: **mg/L** Analysis Date: **19-Jun-2024 21:58**
Client ID: Run ID: **ICPMS05_469847** SeqNo: **8086948** PrepDate: **18-Jun-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Iron	ND	1.00					0.03725	0	10	
Manganese	0.3588	0.0250					0.3419	4.92	10	

The following samples were analyzed in this batch: HS24060936-01 HS24060936-02

ALS Houston, US Date: 20-Jun-24

Client: Permian Basin Environmental Lab, LP
Project: 4F13018
WorkOrder: **HS24060936**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 20-Jun-24

Sample Receipt Checklist

Work Order ID: HS24060936 **Date/Time Received:** 14-Jun-2024 09:20

Client Name: Permian Basin Lab **Received by:** Si Ma

Completed By: /S/ Hoa Tran (eSignature) 14-Jun-2024 18:45 (Date/Time) **Reviewed by:** /S/ Anna Kinchen (eSignature) 18-Jun-2024 09:48 (Date/Time)

Matrices: w Carrier name: FedEx

	Yes	No	
Shipping container/cooler in good condition?	☑	☐	Not Present ☐
Custody seals intact on shipping container/cooler?	☐	☐	Not Present ☑
Custody seals intact on sample bottles?	☐	☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐	☐	Not Present ☑
Chain of custody present?	☑	☐	1 Page(s)
Chain of custody signed when relinquished and received?	☐	☑	
Samplers name present on COC?	☐	☑	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	

Temperature(s)/Thermometer(s):	4.3uc/4.4c	ir31
Cooler(s)/Kit(s):	red	
Date/Time sample(s) sent to storage:	06/14/2024 1857	

	Yes	No	
Water - VOA vials have zero headspace?	☑	☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	☑	☐	N/A ☐
pH adjusted?	☐	☑	N/A ☐

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent Barron
Company Name: PBEL
Company Address: 1400 Rankin HWY
City/State/Zip: Midland Texas 79701
Telephone No: 432-661-4184
Fax No:
Sampler Signature: N/A
e-mail: brentbarron@pbelab.com

Project Name: SUBCONTRACT
Project #:
Project Loc:
PO #:
Report Format: X Standard ☐ TRRP ☐ NPDES

ORDER #:

LAB # (lab use only)		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	ICE	HNO_3 250 poly 1	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	NaOH/Zn	NONE 500ML POLY 250 MIL POLY 500 MI.	NONE AMBER GLASS	NONE	Matrix: DW=Drinking Water SL=Sludge GW - Groundwater S=Soil/Solid NP=Non-Potable Specify Other	RSK SOP-175	Mn DISS ICP-MS 6020A	Fe DISS ICP-MS 6020A		24 HOUR RUSH	STANDARD
	4F13018-01			6/3/2024	9:13		3	X	X	X							W	X	X	X			X
	4F13018-02			6/12/2024	14:00		3	X	X	X							W	X	X	X			X

HS24060936
Permian Basin Environmental Lab, LP
4F13018

TB Coolers Red Temp 4.3 Corr to 1

BRENT BARRON	~~6/12/2024~~ 6/13/2024	5:00 PM	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: SM	Date 06/14/24	Time 09:20
Relinquished by:	Date	Time	Received by:	Date	Time

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: °C
Adjusted: °C Factor

ORIGIN ID:MAFA (432) 683-7235
HSENG SARTON
PBL LAB
1400 RANKIN HWY
MIDLAND, TX 79701
UNITED STATES US

SHIP DATE: 13JUN24
ACTWGT: 10.00 LB
CAD: 107196466/INET4836
DIMS: 10x6x2 IN

BILL RECIPIENT

TO SAMPLE RECEIVING
ALS-HOUSTON
10450 STANCLIFF RD

HOUSTON TX 77099
(281) 556-6515 REF
INV:
PO: DEPT:

FedEx Express

SEQ:JSB21D/5AE3

FRI - 14 JUN 5:00P
STANDARD OVERNIGHT

7768 5731 1607

77099
TX-US IAH

AB SGRA

After printing this label
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: CS CAYLOR

Project Number: SRS#2002-10250

Location: Lea County, NM

Lab Order Number: 4I16013

Current Certification

Report Date: 09/30/24

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-10A	4I16013-01	Water	09/16/24 10:20	09-16-2024 15:02
MW-21	4I16013-02	Water	09/16/24 11:25	09-16-2024 15:02

Dissolved Fe, Dissolved Mn, and RSK-175 analysis were subcontracted to ALS Houston. Their report is attached after the Chain of Custody. Their TCEQ TNI certification number can be found here:
https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-10A

4I16013-01 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Ethane	ND	0.00100	mg/L	1	P4I3017	09/20/24 08:00	09/20/24 09:36	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P4I3017	09/20/24 08:00	09/20/24 09:36	8015M	SUB-13
Methane	**0.00106**	0.000500	mg/L	1	P4I3017	09/20/24 08:00	09/20/24 09:36	8015M	SUB-13
General Chemistry Parameters by EPA / Standard Methods									
Total Alkalinity	**286**	10.0	mg/L	1	P4I2618	09/26/24 14:58	09/26/24 14:58	EPA 310.1M	
Carbonate Alkalinity	ND	10.0	mg/L	1	P4I2618	09/26/24 14:58	09/26/24 14:58	EPA 310.1M	
Bicarbonate Alkalinity	**286**	10.0	mg/L	1	P4I2618	09/26/24 14:58	09/26/24 14:58	EPA 310.1M	
Hydroxide Alkalinity	ND	10.0	mg/L	1	P4I2618	09/26/24 14:58	09/26/24 14:58	EPA 310.1M	
Nitrate as N	**2.23**	0.200	mg/L	1	P4I1709	09/17/24 12:10	09/18/24 09:00	EPA 300.0	
Sulfate	**41.2**	10.0	mg/L	10	P4I1709	09/17/24 12:10	09/18/24 11:31	EPA 300.0	
Dissolved Metals by EPA / Standard Methods									
Iron	ND	0.200	mg/L	1	P4I3017	09/20/24 08:00	09/25/24 18:41	EPA 6020A	SUB-13
Manganese	**0.00534**	0.00500	mg/L	1	P4I3017	09/20/24 08:00	09/25/24 18:41	EPA 6020A	SUB-13

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-21

4I16013-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Ethane	ND	0.00100	mg/L	1	P4I3017	09/20/24 08:00	09/20/24 09:45	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P4I3017	09/20/24 08:00	09/20/24 09:45	8015M	SUB-13
Methane	**0.00134**	0.000500	mg/L	1	P4I3017	09/20/24 08:00	09/20/24 09:45	8015M	SUB-13
General Chemistry Parameters by EPA / Standard Methods									
Total Alkalinity	**298**	10.0	mg/L	1	P4I2618	09/26/24 14:58	09/26/24 14:58	EPA 310.1M	
Carbonate Alkalinity	ND	10.0	mg/L	1	P4I2618	09/26/24 14:58	09/26/24 14:58	EPA 310.1M	
Bicarbonate Alkalinity	**298**	10.0	mg/L	1	P4I2618	09/26/24 14:58	09/26/24 14:58	EPA 310.1M	
Hydroxide Alkalinity	ND	10.0	mg/L	1	P4I2618	09/26/24 14:58	09/26/24 14:58	EPA 310.1M	
Nitrate as N	**1.98**	0.200	mg/L	1	P4I1709	09/17/24 12:10	09/18/24 10:04	EPA 300.0	
Sulfate	**42.4**	10.0	mg/L	10	P4I1709	09/17/24 12:10	09/18/24 12:35	EPA 300.0	
Dissolved Metals by EPA / Standard Methods									
Iron	ND	0.200	mg/L	1	P4I3017	09/20/24 08:00	09/25/24 18:43	EPA 6020A	SUB-13
Manganese	**0.267**	0.00500	mg/L	1	P4I3017	09/20/24 08:00	09/25/24 18:43	EPA 6020A	SUB-13

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

General Chemistry Parameters by EPA / Standard Methods - 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 P4I1709 - * DEFAULT PREP *****										
Blank (P4I1709-BLK1)				Prepared: 09/17/24 Analyzed: 09/18/24						
Nitrate as N	ND	0.200	mg/L							
Sulfate	ND	1.00	"							
LCS (P4I1709-BS1)				Prepared: 09/17/24 Analyzed: 09/18/24						
Nitrate as N	10.4		mg/L	10.0		104	90-110			
Sulfate	8.55		"	9.00		95.0	90-110			
Calibration Check (P4I1709-CCV1)				Prepared & Analyzed: 09/17/24						
Nitrate as N	10.3		mg/L	10.0		103	90-110			
Sulfate	8.26		"	9.00		91.7	90-110			
Calibration Check (P4I1709-CCV2)				Prepared: 09/17/24 Analyzed: 09/18/24						
Sulfate	8.25		mg/L	9.00		91.7	90-110			
Nitrate as N	10.4		"	10.0		104	90-110			
Matrix Spike (P4I1709-MS1)		**Source: 4I16013-01**		Prepared: 09/17/24 Analyzed: 09/18/24						
Sulfate	142		mg/L	100	41.2	100	80-120			
Nitrate as N	11.5		"	10.0	2.23	92.9	80-120			
Matrix Spike Dup (P4I1709-MSD1)		**Source: 4I16013-01**		Prepared: 09/17/24 Analyzed: 09/18/24						
Nitrate as N	11.5		mg/L	10.0	2.23	92.8	80-120	0.0608	20	
Sulfate	142		"	100	41.2	101	80-120	0.303	20	
Batch P4I2618 - * DEFAULT PREP *****										
Blank (P4I2618-BLK1)				Prepared & Analyzed: 09/26/24						
Total Alkalinity	ND	10.0	mg/L							
Carbonate Alkalinity	ND	10.0	"							
Bicarbonate Alkalinity	ND	10.0	"							
Hydroxide Alkalinity	ND	10.0	"							

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

General Chemistry Parameters by EPA / Standard Methods - 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 P4I2618 - * DEFAULT PREP *****										
LCS (P4I2618-BS1)				Prepared & Analyzed: 09/26/24						
Total Alkalinity	200		mg/L	250		80.0	80-120			
Carbonate Alkalinity	ND	10.0	"				80-120			
Bicarbonate Alkalinity	200	10.0	"				80-120			
Hydroxide Alkalinity	ND	10.0	"				80-120			
Duplicate (P4I2618-DUP1)		**Source: 4I16013-01**		Prepared & Analyzed: 09/26/24						
Total Alkalinity	290	10.0	mg/L		286			1.39	20	
Carbonate Alkalinity	ND	10.0	"		ND				20	
Bicarbonate Alkalinity	290	10.0	"		286			1.39	20	
Hydroxide Alkalinity	ND	10.0	"		ND				20	

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Notes and Definitions

SUB-13	Subcontract of analyte/analysis to ALS Houston.
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: 9/30/2024

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: Kayla Saylor

Project Name: CS Caylor
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10250
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only)
ORDER #: 4I16013

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: TPH: TX 1005 TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	MNA Parameters	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
1	MW-10A			9-16-24	10:20		5	5	1	3				1		GW				X		X
2	MW-21			9-16-24	11:25		5	5	1	3				1		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
Kayla Saylor	9-16-24	15:02			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
			Mina Bledsoe	9/16/24	15:02

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: 5.2 °C Thermometer: NCF
Adjusted: °C Factor: 1.3

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235

PBELAB_SUB_COC_V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name: PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: X Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

ORDER #:

LAB # (lab use only)		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly 1	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	NaOH/Zn	NONE 500ML POLY 250 MIL POLY 500 ML WM AMBER GLASS	NONE	Matrix (DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other)	Analyze For: RSK SOP-175	Mn DISS ICP MS 6020A	Fe DISS ICP MS 6020A											72 HOUR RUSH	STANDARD
	4I16013-01			9/16/2024	10:20	Y	4	X	X	X						W	X	X	X											X
	4I16013-02			9/16/2024	11:25	Y	4	X	X	X						W	X	X	X											X

Please add tressa@pbelab.com to the WOA. Thank you.

BRENT BARRON	9/16/2024	5:00 PM	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

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: °C		
Adjusted: °C Factor		

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

September 26, 2024

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS24090948**

Laboratory Results for: **4I6013**

Dear Brent Barron,

ALS Environmental received 2 sample(s) on Sep 19, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Anna Kinchen
Project Manager

ALS Houston, US Date: 26-Sep-24

Client: Permian Basin Environmental Lab, LP
Project: 4I6013
Work Order: HS24090948

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24090948-01	4I16013-01	Water		16-Sep-2024 10:20	19-Sep-2024 09:15	☐
HS24090948-02	4I16013-02	Water		16-Sep-2024 11:25	19-Sep-2024 09:15	☐

ALS Houston, US Date: 26-Sep-24

Client: Permian Basin Environmental Lab, LP **CASE NARRATIVE**
Project: 4I6013
Work Order: HS24090948

GC Semivolatiles by Method RSK-175

Batch ID: R477688

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 217952

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 26-Sep-24

Client: Permian Basin Environmental Lab, LP
Project: 4I6013
Sample ID: 4I16013-01
Collection Date: 16-Sep-2024 10:20

ANALYTICAL REPORT
WorkOrder:HS24090948
Lab ID:HS24090948-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		**Method:RSK-175**				Analyst: RG
Ethane	ND		1.00	ug/L	1	20-Sep-2024 09:36
Ethene	ND		1.00	ug/L	1	20-Sep-2024 09:36
Methane	**1.06**		**0.500**	**ug/L**	1	20-Sep-2024 09:36
DISSOLVED METALS BY SW6020A		**Method:SW6020A (dissolved)**		Prep:SW3010A / 24-Sep-2024		Analyst: JC
Iron	ND		0.200	mg/L	1	25-Sep-2024 18:41
Manganese	**0.00534**		**0.00500**	**mg/L**	1	25-Sep-2024 18:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 26-Sep-24

Client: Permian Basin Environmental Lab, LP
Project: 4I6013
Sample ID: 4I16013-02
Collection Date: 16-Sep-2024 11:25

ANALYTICAL REPORT
WorkOrder:HS24090948
Lab ID:HS24090948-02
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		**Method:RSK-175**				Analyst: RG
Ethane	ND		1.00	ug/L	1	20-Sep-2024 09:45
Ethene	ND		1.00	ug/L	1	20-Sep-2024 09:45
Methane	**1.34**		**0.500**	**ug/L**	1	20-Sep-2024 09:45
DISSOLVED METALS BY SW6020A		**Method:SW6020A (dissolved)**		Prep:SW3010A / 24-Sep-2024		Analyst: JC
Iron	ND		0.200	mg/L	1	25-Sep-2024 18:43
Manganese	**0.267**		**0.00500**	**mg/L**	1	25-Sep-2024 18:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 26-Sep-24

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP
Project: 4I6013
WorkOrder: HS24090948

Batch ID: 217952 **Start Date:** 24 Sep 2024 14:30 **End Date:** 24 Sep 2024 14:30
Method: DISS METALS PREP - WATER - SW3010A **Prep Code:** 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24090948-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS24090948-02		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

ALS Houston, US Date: 26-Sep-24

Client: Permian Basin Environmental Lab, LP
Project: 4I6013
WorkOrder: HS24090948

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 217952 (0)	**Test Name :** DISSOLVED METALS BY SW6020A				**Matrix:** Water	
HS24090948-01	4I16013-01	16 Sep 2024 10:20		24 Sep 2024 14:30	25 Sep 2024 18:41	1
HS24090948-02	4I16013-02	16 Sep 2024 11:25		24 Sep 2024 14:30	25 Sep 2024 18:43	1
Batch ID: R477688 (0)	**Test Name :** DISSOLVED GASES BY RSK-175				**Matrix:** Water	
HS24090948-01	4I16013-01	16 Sep 2024 10:20			20 Sep 2024 09:36	1
HS24090948-02	4I16013-02	16 Sep 2024 11:25			20 Sep 2024 09:45	1

ALS Houston, US Date: 26-Sep-24

Client: Permian Basin Environmental Lab, LP
Project: 4I6013
WorkOrder: HS24090948

QC BATCH REPORT

Batch ID: R477688 (0) **Instrument:** FID-4 **Method:** DISSOLVED GASES BY RSK-175

MBLK Sample ID: **MBLK-240920** Units: **ug/L** Analysis Date: **20-Sep-2024 09:05**
Client ID: Run ID: **FID-4_477688** SeqNo: **8262680** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	ND	1.00								
Ethene	ND	1.00								
Methane	ND	0.500								

LCS Sample ID: **LCS-240920** Units: **ug/L** Analysis Date: **20-Sep-2024 09:19**
Client ID: Run ID: **FID-4_477688** SeqNo: **8262681** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	16.51	1.00	18.04	0	91.5	75 - 125				
Ethene	14.49	1.00	16.8	0	86.3	75 - 125				
Methane	9.486	0.500	9.647	0	98.3	75 - 125				

LCSD Sample ID: **LCSD-240920** Units: **ug/L** Analysis Date: **20-Sep-2024 09:27**
Client ID: Run ID: **FID-4_477688** SeqNo: **8262682** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	15.74	1.00	18.04	0	87.2	75 - 125	16.51	4.76	30	
Ethene	14.87	1.00	16.8	0	88.5	75 - 125	14.49	2.55	30	
Methane	9.053	0.500	9.647	0	93.8	75 - 125	9.486	4.67	30	

The following samples were analyzed in this batch: HS24090948-01 HS24090948-02

ALS Houston, US Date: 26-Sep-24

Client: Permian Basin Environmental Lab, LP
Project: 4I6013
WorkOrder: HS24090948

QC BATCH REPORT

Batch ID: 217952 (0) **Instrument:** ICPMS06 **Method:** DISSOLVED METALS BY SW6020A (DISSOLVED)

MBLK Sample ID: **MBLK-217952** Units: **mg/L** Analysis Date: **25-Sep-2024 17:29**
Client ID: Run ID: **ICPMS06_478062** SeqNo: **8272088** PrepDate: **24-Sep-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	ND	0.200								
Manganese	ND	0.00500								

LCS Sample ID: **LCS-217952** Units: **mg/L** Analysis Date: **25-Sep-2024 17:31**
Client ID: Run ID: **ICPMS06_478062** SeqNo: **8272089** PrepDate: **24-Sep-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.741	0.200	5	0	94.8	80 - 120				
Manganese	0.04518	0.00500	0.05	0	90.4	80 - 120				

MS Sample ID: **HS24090937-06MS** Units: **mg/L** Analysis Date: **25-Sep-2024 17:46**
Client ID: Run ID: **ICPMS06_478062** SeqNo: **8272096** PrepDate: **24-Sep-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.823	0.200	5	0.006178	96.3	75 - 125				
Manganese	0.04779	0.00500	0.05	0.000182	95.2	75 - 125				

MSD Sample ID: **HS24090937-06MSD** Units: **mg/L** Analysis Date: **25-Sep-2024 17:48**
Client ID: Run ID: **ICPMS06_478062** SeqNo: **8272097** PrepDate: **24-Sep-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.827	0.200	5	0.006178	96.4	75 - 125	4.823	0.0805	20	
Manganese	0.04696	0.00500	0.05	0.000182	93.6	75 - 125	0.04779	1.75	20	

PDS Sample ID: **HS24090937-06PDS** Units: **mg/L** Analysis Date: **25-Sep-2024 17:50**
Client ID: Run ID: **ICPMS06_478062** SeqNo: **8272098** PrepDate: **24-Sep-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	9.523	0.200	10	0.006178	95.2	75 - 125				
Manganese	0.09027	0.00500	0.1	0.000182	90.1	75 - 125				

ALS Houston, US Date: 26-Sep-24

Client: Permian Basin Environmental Lab, LP
Project: 4I6013
WorkOrder: HS24090948

QC BATCH REPORT

Batch ID: 217952 (0) **Instrument:** ICPMS06 **Method:** DISSOLVED METALS BY SW6020A (DISSOLVED)

SD Sample ID: **HS24090937-06SD** Units: **mg/L** Analysis Date: **25-Sep-2024 17:38**
Client ID: Run ID: **ICPMS06_478062** SeqNo: **8272093** PrepDate: **24-Sep-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Iron	ND	1.00					0.006178	0	10	
Manganese	ND	0.0250					0.000182	0	10	

The following samples were analyzed in this batch: HS24090948-01 HS24090948-02

ALS Houston, US Date: 26-Sep-24

Client: Permian Basin Environmental Lab, LP
Project: 4I6013
WorkOrder: **HS24090948**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Dept of Defense	L24-240	30-Apr-2026
Dept of Defense	L24-239	30-Apr-2026
Florida	E87611-38	30-Jun-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2025
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Sep-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2025

ALS Houston, US Date: 26-Sep-24

Sample Receipt Checklist

Work Order ID: HS24090948 **Date/Time Received:** 19-Sep-2024 09:15
Client Name: Permian Basin Lab **Received by:** Jacob Coronado

Completed By: /S/ Michael Lucio (eSignature) 19-Sep-2024 12:49 (Date/Time) **Reviewed by:** /S/ Anna Kinchen (eSignature) 20-Sep-2024 13:18 (Date/Time)

Matrices: w Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	3.4uc/3.4c	IR34
Cooler(s)/Kit(s):	Blue	
Date/Time sample(s) sent to storage:	09/19/2024 1250	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

HS24090948

Permian Basin Environmental Lab, LP

416013

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab,
1400 Rankin HWY
Midland, Texas 79701

Project Manager: Brent Barron

Company Name: PBEL

Company Address: 1400 Rankin HWY

City/State/Zip: Midland Texas 79701

Telephone No: 432-661-4184 Fax No:

Sampler Signature: N/A e-mail: brentbarron@pbelab.com

Project #:

Project Loc:

PO #:

Report Format: X Standard ☐ TRRP ☐ NPDES

ORDER #:

Lab # (lab use only)	Sample Identification	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: ICE	HNO_3 250poly 1	HCl 3 40ml VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250Ml P	NaOH/Zn	500ml 500ml POLY 250 Ml POLY 500 ML	250 AMBER GLASS	NONE	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP = Non-Potable Specify Other	RSK SOP-175	NM DHSS ICP MS 6020A	Fe QISS ICP MS 6020A										72 HOUR RUSH	STANDARD
	416013-01			9/16/2024	10:20	Y	4	X	X	X							W	X	X	X											X
	416013-02			9/16/2024	11:25	Y	4	X	X	X							W	X	X	X											X

Please add tressa@pbelab.com to the WOA. Thank you.

BRENT BARRON	9/16/2024	5:00 PM	Received by:	Date	Time
Relinquished by:	Date 9/19/24	Time 0915	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Laboratory Comments:

Sample Containers Intact? Y N

VOCs Free of Headspace? Y N

Labels on containers? Y N

Custody seals on containers? Y N

Custody seals intact? Y N

Sample Hand Delivered Y N

by Sampler/Client Rep.? Y N

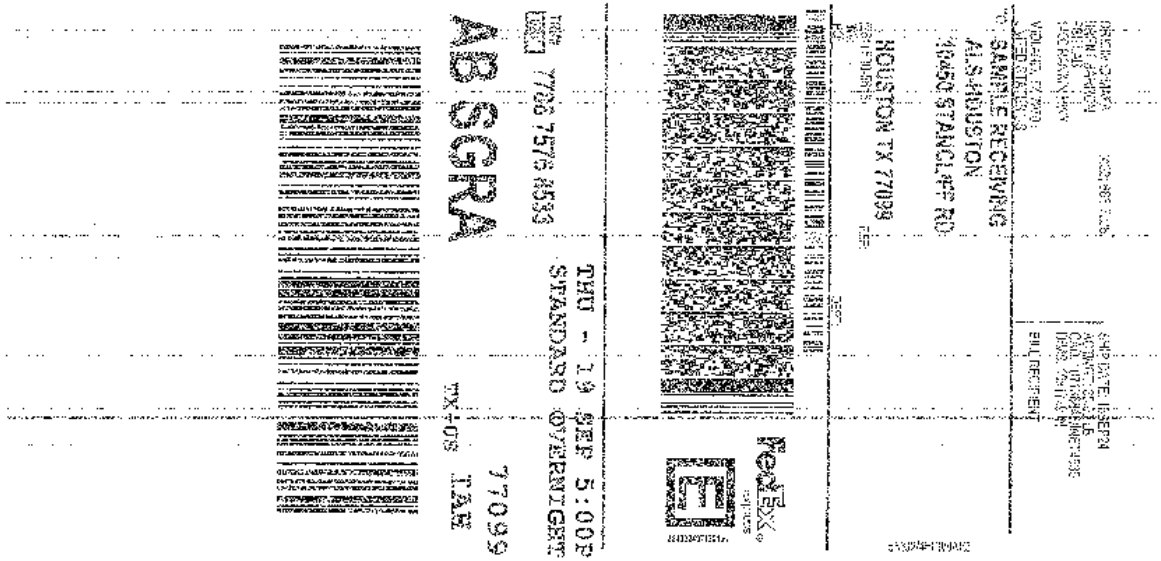
by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:

Received: °C

Adjusted: °C Factor

Rile 3-4 1.34



After printing this label:
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
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2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: CS CAYLOR

Project Number: SRS#2002-10250

Location: Lea County, NM

Lab Order Number: 4I16014

Current Certification

Report Date: 09/26/24

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-10A	4I16014-01	Water	09/16/24 10:20	09-16-2024 15:02
MW-21	4I16014-02	Water	09/16/24 11:25	09-16-2024 15:02

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-10A

4I16014-01 (Water)

Permian Basin Environmental Lab, L.P.

Organics by GC

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.00501**	0.00100	mg/L	1	P4I1707	09/17/24 09:31	09/17/24 17:52	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I1707	09/17/24 09:31	09/17/24 17:52	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I1707	09/17/24 09:31	09/17/24 17:52	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I1707	09/17/24 09:31	09/17/24 17:52	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I1707	09/17/24 09:31	09/17/24 17:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P4I1707*	*09/17/24 09:31*	*09/17/24 17:52*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*88.8 %*	*80-120*		*P4I1707*	*09/17/24 09:31*	*09/17/24 17:52*	*EPA 8021B*	
Total BTEX	**0.00501**	0.00100	mg/L	1	[CALC]	09/17/24 09:31	09/17/24 17:52	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/17/24 09:31	09/17/24 17:52	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-21

4I16014-02 (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	P4I1707	09/17/24 09:31	09/17/24 18:14	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I1707	09/17/24 09:31	09/17/24 18:14	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I1707	09/17/24 09:31	09/17/24 18:14	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I1707	09/17/24 09:31	09/17/24 18:14	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I1707	09/17/24 09:31	09/17/24 18:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P4I1707*	*09/17/24 09:31*	*09/17/24 18:14*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*88.6 %*	*80-120*		*P4I1707*	*09/17/24 09:31*	*09/17/24 18:14*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/17/24 09:31	09/17/24 18:14	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/17/24 09:31	09/17/24 18:14	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4I1707 - * DEFAULT PREP *****										
Blank (P4I1707-BLK1)				Prepared & Analyzed: 09/17/24						
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*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.105*		*"*	*0.120*		*87.7*	*80-120*			
LCS (P4I1707-BS1)				Prepared & Analyzed: 09/17/24						
Benzene	0.0975	0.00100	mg/L	0.100		97.5	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.237	0.00200	"	0.200		119	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.2*	*80-120*			
LCS Dup (P4I1707-BSD1)				Prepared & Analyzed: 09/17/24						
Benzene	0.0944	0.00100	mg/L	0.100		94.4	80-120	3.23	20	
Toluene	0.102	0.00100	"	0.100		102	80-120	2.83	20	
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120	0.130	20	
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120	0.557	20	
Xylene (o)	0.103	0.00100	"	0.100		103	80-120	3.75	20	
Surrogate: 4-Bromofluorobenzene	*0.129*		*"*	*0.120*		*107*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.2*	*80-120*			
Calibration Blank (P4I1707-CCB1)				Prepared & Analyzed: 09/17/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.120*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.104*		*"*	*0.120*		*86.5*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4I1707 - * DEFAULT PREP *****										
Calibration Blank (P4I1707-CCB2)				Prepared & Analyzed: 09/17/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*104*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.104*		*"*	*0.120*		*86.8*	*80-120*			
Calibration Check (P4I1707-CCV1)				Prepared & Analyzed: 09/17/24						
Benzene	0.0996	0.00100	mg/L	0.100		99.6	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.237	0.00200	"	0.200		119	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	*0.113*		*"*	*0.120*		*94.0*	*80-120*			
Calibration Check (P4I1707-CCV2)				Prepared & Analyzed: 09/17/24						
Benzene	0.102	0.00100	mg/L	0.100		102	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120			
Xylene (p/m)	0.240	0.00200	"	0.200		120	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*104*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.108*		*"*	*0.120*		*89.7*	*80-120*			
Calibration Check (P4I1707-CCV3)				Prepared & Analyzed: 09/17/24						
Benzene	0.107	0.00100	mg/L	0.100		107	80-120			
Toluene	0.110	0.00100	"	0.100		110	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.240	0.00200	"	0.200		120	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 4-Bromofluorobenzene	*0.128*		*"*	*0.120*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.2*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4I1707 - * DEFAULT PREP *****										
Matrix Spike (P4I1707-MS1)		**Source: 4I12009-01**		Prepared & Analyzed: 09/17/24						
Benzene	0.107	0.00100	mg/L	0.100	ND	107	80-120			
Toluene	0.113	0.00100	"	0.100	ND	113	80-120			
Ethylbenzene	0.126	0.00100	"	0.100	ND	126	80-120			QM-05
Xylene (p/m)	0.254	0.00200	"	0.200	ND	127	80-120			QM-05
Xylene (o)	0.113	0.00100	"	0.100	ND	113	80-120			
Surrogate: 4-Bromofluorobenzene	*0.129*		*"*	*0.120*		*107*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.2*	*80-120*			
Matrix Spike Dup (P4I1707-MSD1)		**Source: 4I12009-01**		Prepared & Analyzed: 09/17/24						
Benzene	0.119	0.00100	mg/L	0.100	ND	119	80-120	10.5	20	
Toluene	0.127	0.00100	"	0.100	ND	127	80-120	11.6	20	QM-05
Ethylbenzene	0.143	0.00100	"	0.100	ND	143	80-120	12.1	20	QM-05
Xylene (p/m)	0.284	0.00200	"	0.200	ND	142	80-120	11.3	20	QM-05
Xylene (o)	0.127	0.00100	"	0.100	ND	127	80-120	11.9	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.128*		*"*	*0.120*		*107*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.6*	*80-120*			

Talon LPE		Project:	CS CAYLOR
2901 S. State Hwy 349		Project Number:	SRS#2002-10250
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: 9/26/2024

Brent Barron, Laboratory Director/Technical Director

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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: Kayla Saylor
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

Project Name: CS Caylor
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10250
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 4I16014

Analyze For: TCLP: / TOTAL:

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 Othe)	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-10A			9-16-24	10:20		3	3		3						GW			X		X
2	MW-21			9-16-24	11:25		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
Kayla Saylor	9-16-24	15:02			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL: Teresa Bledsoe	9/16/24	15:02

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: 5.2 °C Thermometer: NCF
Adjusted: °C Factor: L3

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

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: CS CAYLOR

Project Number: SRS#2002-10250

Location: Lea County, NM

Lab Order Number: 4I17014

Current Certification

Report Date: 09/30/24

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6A	4I17014-01	Water	09/17/24 09:50	09-17-2024 15:38
MW-11A	4I17014-02	Water	09/17/24 09:02	09-17-2024 15:38

Dissolved Fe, Dissolved Mn, RSK-175 analysis were subcontracted to ALS Houston. Their report is attached after the Chain of Custody. Their TCEQ TNI certification number can be found here:
https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-6A

4I17014-01 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Ethane	ND	0.00100	mg/L	1	P4I3014	09/20/24 09:00	09/20/24 11:24	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P4I3014	09/20/24 09:00	09/20/24 11:24	8015M	SUB-13
Methane	**0.00296**	0.000500	mg/L	1	P4I3014	09/20/24 09:00	09/20/24 11:24	8015M	SUB-13
General Chemistry Parameters by EPA / Standard Methods									
Total Alkalinity	**314**	10.0	mg/L	1	P4I2618	09/26/24 14:58	09/26/24 14:58	EPA 310.1M	
Carbonate Alkalinity	ND	10.0	mg/L	1	P4I2618	09/26/24 14:58	09/26/24 14:58	EPA 310.1M	
Bicarbonate Alkalinity	**314**	10.0	mg/L	1	P4I2618	09/26/24 14:58	09/26/24 14:58	EPA 310.1M	
Hydroxide Alkalinity	ND	10.0	mg/L	1	P4I2618	09/26/24 14:58	09/26/24 14:58	EPA 310.1M	
Nitrate as N	**2.46**	0.200	mg/L	1	P4I1709	09/17/24 15:55	09/18/24 10:26	EPA 300.0	
Sulfate	**51.5**	5.00	mg/L	5	P4I1709	09/17/24 15:55	09/18/24 12:56	EPA 300.0	
Dissolved Metals by EPA / Standard Methods									
Iron	ND	0.200	mg/L	1	P4I3014	09/20/24 09:00	09/25/24 18:37	EPA 6020A	SUB-13
Manganese	**0.0152**	0.00500	mg/L	1	P4I3014	09/20/24 09:00	09/25/24 18:37	EPA 6020A	SUB-13

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-11A

4I17014-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Ethane	ND	0.00100	mg/L	1	P4I3014	09/20/24 09:00	09/20/24 11:32	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P4I3014	09/20/24 09:00	09/20/24 11:32	8015M	SUB-13
Methane	**0.00149**	0.000500	mg/L	1	P4I3014	09/20/24 09:00	09/20/24 11:32	8015M	SUB-13
General Chemistry Parameters by EPA / Standard Methods									
Total Alkalinity	**370**	10.0	mg/L	1	P4I2618	09/26/24 14:58	09/26/24 14:58	EPA 310.1M	
Carbonate Alkalinity	ND	10.0	mg/L	1	P4I2618	09/26/24 14:58	09/26/24 14:58	EPA 310.1M	
Bicarbonate Alkalinity	**370**	10.0	mg/L	1	P4I2618	09/26/24 14:58	09/26/24 14:58	EPA 310.1M	
Hydroxide Alkalinity	ND	10.0	mg/L	1	P4I2618	09/26/24 14:58	09/26/24 14:58	EPA 310.1M	
Nitrate as N	**2.24**	0.200	mg/L	1	P4I1709	09/17/24 15:55	09/18/24 10:47	EPA 300.0	
Sulfate	**45.0**	10.0	mg/L	10	P4I1709	09/17/24 15:55	09/18/24 13:18	EPA 300.0	
Dissolved Metals by EPA / Standard Methods									
Iron	ND	0.200	mg/L	1	P4I3014	09/20/24 09:00	09/25/24 18:39	EPA 6020A	SUB-13
Manganese	ND	0.00500	mg/L	1	P4I3014	09/20/24 09:00	09/25/24 18:39	EPA 6020A	SUB-13

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

General Chemistry Parameters by EPA / Standard Methods - 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 P4I1709 - * DEFAULT PREP *****										
Blank (P4I1709-BLK1)				Prepared: 09/17/24 Analyzed: 09/18/24						
Sulfate	ND	1.00	mg/L							
Nitrate as N	ND	0.200	"							
LCS (P4I1709-BS1)				Prepared: 09/17/24 Analyzed: 09/18/24						
Nitrate as N	10.4		mg/L	10.0		104	90-110			
Sulfate	8.55		"	9.00		95.0	90-110			
Calibration Check (P4I1709-CCV1)				Prepared & Analyzed: 09/17/24						
Nitrate as N	10.3		mg/L	10.0		103	90-110			
Sulfate	8.26		"	9.00		91.7	90-110			
Calibration Check (P4I1709-CCV2)				Prepared: 09/17/24 Analyzed: 09/18/24						
Nitrate as N	10.4		mg/L	10.0		104	90-110			
Sulfate	8.25		"	9.00		91.7	90-110			
Matrix Spike (P4I1709-MS1)		**Source: 4I16013-01**		Prepared: 09/17/24 Analyzed: 09/18/24						
Sulfate	142		mg/L	100	41.2	100	80-120			
Nitrate as N	11.5		"	10.0	2.23	92.9	80-120			
Matrix Spike Dup (P4I1709-MSD1)		**Source: 4I16013-01**		Prepared: 09/17/24 Analyzed: 09/18/24						
Nitrate as N	11.5		mg/L	10.0	2.23	92.8	80-120	0.0608	20	
Sulfate	142		"	100	41.2	101	80-120	0.303	20	
Batch P4I2618 - * DEFAULT PREP *****										
Blank (P4I2618-BLK1)				Prepared & Analyzed: 09/26/24						
Total Alkalinity	ND	10.0	mg/L							
Carbonate Alkalinity	ND	10.0	"							
Bicarbonate Alkalinity	ND	10.0	"							
Hydroxide Alkalinity	ND	10.0	"							

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

General Chemistry Parameters by EPA / Standard Methods - 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 P4I2618 - * DEFAULT PREP *****										
LCS (P4I2618-BS1)				Prepared & Analyzed: 09/26/24						
Total Alkalinity	200		mg/L	250		80.0	80-120			
Carbonate Alkalinity	ND	10.0	"				80-120			
Bicarbonate Alkalinity	200	10.0	"				80-120			
Hydroxide Alkalinity	ND	10.0	"				80-120			
Duplicate (P4I2618-DUP1)		**Source: 4I16013-01**		Prepared & Analyzed: 09/26/24						
Total Alkalinity	290	10.0	mg/L		286			1.39	20	
Carbonate Alkalinity	ND	10.0	"		ND				20	
Bicarbonate Alkalinity	290	10.0	"		286			1.39	20	
Hydroxide Alkalinity	ND	10.0	"		ND				20	

Talon LPE		Project:	CS CAYLOR
2901 S. State Hwy 349		Project Number:	SRS#2002-10250
Midland TX, 79706		Project Manager:	David Adkins

Notes and Definitions

SUB-13	Subcontract of analyte/analysis to ALS Houston.
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: 9/30/2024

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: Kayla Taylor

Project Name: CS Caylor
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10250
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only)
ORDER #: 4I17014

Preservation & # of Containers; Matrix (DW=Drinking Water SL=Sludge; GW = Groundwater S=Soil/Solid; NP=Non-Potable Specify Other); Analyze For: TCLP: / TOTAL:

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	TPH: TX 1005 TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	MNA Parameters	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
1	MW-64			9-17-24	9:50		5	5	1	3				1		GW				X		X
2	MW-11A			9-17-24	9:02		5	5	1	3				1		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
Kayla Taylor	9/17/24	15:38			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL: Trisa Bledsoe	9/17/24	15:38

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: 5.1 °C Thermometer: NCF
Adjusted: °C Factor: 63

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235

PBELAB_SUB_COC_V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name: PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: X Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

ORDER #:

LAB # (lab use only)		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly 1	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	NaOH/Zn	NONE 500ML POLY 250 MIL POLY 500 ML WM AMBER GLASS	NONE	Matrix (DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other)	Analyze For: RSK SOP-175	Mn DISS ICP MS 6020A	Fe DISS ICP MS 6020A											72 HOUR RUSH	STANDARD
	4I17014-01			9/17/2024	9:50	Y	4	X	X	X						W	X	X	X											X
	4I17014-02			9/17/2024	9:02	Y	4	X	X	X						W	X	X	X											X

Please add tressa@pbelab.com to the WOA. Thank you.

BRENT BARRON	9/18/2024	5:00 PM	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

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: °C		
Adjusted: °C Factor		

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

September 26, 2024

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS24090944**

Laboratory Results for: **4I17014**

Dear Brent Barron,

ALS Environmental received 2 sample(s) on Sep 19, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Anna Kinchen
Project Manager

ALS Houston, US Date: 26-Sep-24

Client: Permian Basin Environmental Lab, LP
Project: 4I17014
Work Order: HS24090944

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24090944-01	4I17014-01	Water		17-Sep-2024 09:50	19-Sep-2024 09:15	☐
HS24090944-02	4I17014-02	Water		17-Sep-2024 09:02	19-Sep-2024 09:15	☐

ALS Houston, US Date: 26-Sep-24

Client: Permian Basin Environmental Lab, LP **CASE NARRATIVE**
Project: 4I17014
Work Order: HS24090944

GC Semivolatiles by Method RSK-175

Batch ID: R477688

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 217952

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 26-Sep-24

Client: Permian Basin Environmental Lab, LP
Project: 4I17014
Sample ID: 4I17014-01
Collection Date: 17-Sep-2024 09:50

ANALYTICAL REPORT
WorkOrder:HS24090944
Lab ID:HS24090944-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		**Method:RSK-175**				Analyst: RG
Ethane	ND		1.00	ug/L	1	20-Sep-2024 11:24
Ethene	ND		1.00	ug/L	1	20-Sep-2024 11:24
Methane	**2.96**		**0.500**	**ug/L**	1	20-Sep-2024 11:24
DISSOLVED METALS BY SW6020A		**Method:SW6020A (dissolved)**		Prep:SW3010A / 24-Sep-2024		Analyst: JC
Iron	ND		0.200	mg/L	1	25-Sep-2024 18:37
Manganese	**0.0152**		**0.00500**	**mg/L**	1	25-Sep-2024 18:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 26-Sep-24

Client: Permian Basin Environmental Lab, LP
Project: 4I17014
Sample ID: 4I17014-02
Collection Date: 17-Sep-2024 09:02

ANALYTICAL REPORT
WorkOrder:HS24090944
Lab ID:HS24090944-02
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		**Method:RSK-175**				Analyst: RG
Ethane	ND		1.00	ug/L	1	20-Sep-2024 11:32
Ethene	ND		1.00	ug/L	1	20-Sep-2024 11:32
Methane	**1.49**		**0.500**	**ug/L**	1	20-Sep-2024 11:32
DISSOLVED METALS BY SW6020A		**Method:SW6020A (dissolved)**		Prep:SW3010A / 24-Sep-2024		Analyst: JC
Iron	ND		0.200	mg/L	1	25-Sep-2024 18:39
Manganese	ND		0.00500	mg/L	1	25-Sep-2024 18:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 26-Sep-24

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP
Project: 4I17014
WorkOrder: HS24090944

Batch ID: 217952 **Start Date:** 24 Sep 2024 14:30 **End Date:** 24 Sep 2024 14:30
Method: DISS METALS PREP - WATER - SW3010A **Prep Code:** 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24090944-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS24090944-02		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

ALS Houston, US Date: 26-Sep-24

Client: Permian Basin Environmental Lab, LP
Project: 4I17014
WorkOrder: HS24090944

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 217952 (0)	**Test Name :** DISSOLVED METALS BY SW6020A				**Matrix:** Water	
HS24090944-01	4I17014-01	17 Sep 2024 09:50		24 Sep 2024 14:30	25 Sep 2024 18:37	1
HS24090944-02	4I17014-02	17 Sep 2024 09:02		24 Sep 2024 14:30	25 Sep 2024 18:39	1
Batch ID: R477688 (0)	**Test Name :** DISSOLVED GASES BY RSK-175				**Matrix:** Water	
HS24090944-01	4I17014-01	17 Sep 2024 09:50			20 Sep 2024 11:24	1
HS24090944-02	4I17014-02	17 Sep 2024 09:02			20 Sep 2024 11:32	1

ALS Houston, US Date: 26-Sep-24

Client: Permian Basin Environmental Lab, LP
Project: 4I17014
WorkOrder: HS24090944

QC BATCH REPORT

Batch ID: R477688 (0) **Instrument:** FID-4 **Method:** DISSOLVED GASES BY RSK-175

MBLK Sample ID: **MBLK-240920** Units: **ug/L** Analysis Date: **20-Sep-2024 09:05**
Client ID: Run ID: **FID-4_477688** SeqNo: **8262680** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	ND	1.00								
Ethene	ND	1.00								
Methane	ND	0.500								

LCS Sample ID: **LCS-240920** Units: **ug/L** Analysis Date: **20-Sep-2024 09:19**
Client ID: Run ID: **FID-4_477688** SeqNo: **8262681** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	16.51	1.00	18.04	0	91.5	75 - 125				
Ethene	14.49	1.00	16.8	0	86.3	75 - 125				
Methane	9.486	0.500	9.647	0	98.3	75 - 125				

LCSD Sample ID: **LCSD-240920** Units: **ug/L** Analysis Date: **20-Sep-2024 09:27**
Client ID: Run ID: **FID-4_477688** SeqNo: **8262682** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	15.74	1.00	18.04	0	87.2	75 - 125	16.51	4.76	30	
Ethene	14.87	1.00	16.8	0	88.5	75 - 125	14.49	2.55	30	
Methane	9.053	0.500	9.647	0	93.8	75 - 125	9.486	4.67	30	

The following samples were analyzed in this batch: HS24090944-01 HS24090944-02

ALS Houston, US Date: 26-Sep-24

Client: Permian Basin Environmental Lab, LP
Project: 4I17014
WorkOrder: HS24090944

QC BATCH REPORT

Batch ID: 217952 (0) **Instrument:** ICPMS06 **Method:** DISSOLVED METALS BY SW6020A (DISSOLVED)

MBLK Sample ID: **MBLK-217952** Units: **mg/L** Analysis Date: **25-Sep-2024 17:29**
Client ID: Run ID: **ICPMS06_478062** SeqNo: **8272088** PrepDate: **24-Sep-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	ND	0.200								
Manganese	ND	0.00500								

LCS Sample ID: **LCS-217952** Units: **mg/L** Analysis Date: **25-Sep-2024 17:31**
Client ID: Run ID: **ICPMS06_478062** SeqNo: **8272089** PrepDate: **24-Sep-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.741	0.200	5	0	94.8	80 - 120				
Manganese	0.04518	0.00500	0.05	0	90.4	80 - 120				

MS Sample ID: **HS24090937-06MS** Units: **mg/L** Analysis Date: **25-Sep-2024 17:46**
Client ID: Run ID: **ICPMS06_478062** SeqNo: **8272096** PrepDate: **24-Sep-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.823	0.200	5	0.006178	96.3	75 - 125				
Manganese	0.04779	0.00500	0.05	0.000182	95.2	75 - 125				

MSD Sample ID: **HS24090937-06MSD** Units: **mg/L** Analysis Date: **25-Sep-2024 17:48**
Client ID: Run ID: **ICPMS06_478062** SeqNo: **8272097** PrepDate: **24-Sep-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.827	0.200	5	0.006178	96.4	75 - 125	4.823	0.0805	20	
Manganese	0.04696	0.00500	0.05	0.000182	93.6	75 - 125	0.04779	1.75	20	

PDS Sample ID: **HS24090937-06PDS** Units: **mg/L** Analysis Date: **25-Sep-2024 17:50**
Client ID: Run ID: **ICPMS06_478062** SeqNo: **8272098** PrepDate: **24-Sep-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	9.523	0.200	10	0.006178	95.2	75 - 125				
Manganese	0.09027	0.00500	0.1	0.000182	90.1	75 - 125				

ALS Houston, US Date: 26-Sep-24

Client: Permian Basin Environmental Lab, LP
Project: 4I17014
WorkOrder: HS24090944

QC BATCH REPORT

Batch ID: 217952 (0) **Instrument:** ICPMS06 **Method:** DISSOLVED METALS BY SW6020A (DISSOLVED)

SD Sample ID: **HS24090937-06SD** Units: **mg/L** Analysis Date: **25-Sep-2024 17:38**
Client ID: Run ID: **ICPMS06_478062** SeqNo: **8272093** PrepDate: **24-Sep-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Iron	ND	1.00					0.006178	0	10	
Manganese	ND	0.0250					0.000182	0	10	

The following samples were analyzed in this batch: HS24090944-01 HS24090944-02

ALS Houston, US Date: 26-Sep-24

Client: Permian Basin Environmental Lab, LP
Project: 4I17014
WorkOrder: **HS24090944**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Dept of Defense	L24-240	30-Apr-2026
Dept of Defense	L24-239	30-Apr-2026
Florida	E87611-38	30-Jun-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2025
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Sep-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2025

ALS Houston, US Date: 26-Sep-24

Sample Receipt Checklist

Work Order ID: HS24090944 **Date/Time Received:** 19-Sep-2024 09:15
Client Name: Permian Basin Lab **Received by:** Jacob Coronado

Completed By: /S/ Michael Lucio (eSignature) 19-Sep-2024 12:37 (Date/Time) **Reviewed by:** /S/ Anna Kinchen (eSignature) 20-Sep-2024 13:16 (Date/Time)

Matrices: Carrier name: FedEx

	Yes	No	
Shipping container/cooler in good condition?	☑	☐	Not Present ☐
Custody seals intact on shipping container/cooler?	☐	☐	Not Present ☑
Custody seals intact on sample bottles?	☐	☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐	☐	Not Present ☑
Chain of custody present?	☑	☐	1 Page(s)
Chain of custody signed when relinquished and received?	☑	☐	
Samplers name present on COC?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	

Temperature(s)/Thermometer(s):	3.4uc/3.4c	IR34
Cooler(s)/Kit(s):	Blue	
Date/Time sample(s) sent to storage:	09/19/2024 12:37	

	Yes	No	
Water - VOA vials have zero headspace?	☑	☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	☑	☐	N/A ☐
pH adjusted?	☐	☑	N/A ☐

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

HS24090944

Permian Basin Environmental Lab, LP

4117014

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab,
1400 Rankin HWY
Midland, Texas 79701

Project Manager: Brent Barron

Company Name: PBEL

Company Address: 1400 Rankin HWY

City/State/Zip: Midland Texas 79701

Telephone No: 432-661-4184 Fax No:

Sampler Signature: N/A e-mail: brentbarron@pbelab.com

Project #:

Project Loc:

PO #:

Report Format: X Standard ☐ TRRP ☐ NPDES

ORDER #:

Lab # (lab use only)	Sample Identification	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: ICE	HNO_3 250ml/16oz	HCl 3-40ml VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH/Ascorbic Acid 250ml P	NaOH/Zn	NONE 500ml POLY 250 MIL POLY 500 ml 500 AMBER GLASS	NONE	Matrix: DW=Drinking Water SW=Sewage GW=Groundwater SS=Soil/Solid NP=Non-Potable Specify Other	RSK SOP-175	Mn DISS ICP MS 6020A	Fe DISS ICP MS 6020A									72 HOUR RUSH	STANDARD
	4117014-01			9/17/2024	9:50	Y	4	X	X	X						W	X	X	X										X
	4117014-02			9/17/2024	9:02	Y	4	X	X	X						W	X	X	X										X

Analyze For:

Please add tressa@pbelab.com to the WOA. Thank you.

BRENT BARRON	9/18/2024	5:00 PM	Received by:	Date	Time
Relinquished by:	Date 9/19/24	Time 0915	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

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: °C
Adjusted: °C Factor

Blue 3.4 1834

ORIGIN ID:OMAA
SREC# SARKOW
TESTING
1450 SARKOW AVE
MIDLAND, TX 79701
UNITED STATES US

SHIP DATE: 16SEP24
ACTWGT: 25.00 LB
CAD: 107138940/INET4535
DIMS: 18x17x9 IN
BILL SENDER

TO SAMPLE RECEIVING
ALS-HOUSTON
10450 STANCLIFF RD
HOUSTON TX 77099
(281) 530-5656
REF
INV
PO
DEPT

FedEx Express

5051 24EF2 39A21

THU - 19 SEP 5:00P
STANDARD OVERNIGHT

7766 7576 8633

AB SGRA

TX-US IAH

77099

After printing this label:
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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: CS CAYLOR

Project Number: SRS#2002-10250

Location: Lea County, NM

Lab Order Number: 4I17015

Current Certification

Report Date: 09/26/24

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6A	4I17015-01	Water	09/17/24 09:50	09-17-2024 15:38
MW-11A	4I17015-02	Water	09/17/24 09:02	09-17-2024 15:38

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-6A

4I17015-01 (Water)

Permian Basin Environmental Lab, L.P.

Organics by GC

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0538**	0.00100	mg/L	1	P4I1804	09/18/24 11:27	09/18/24 18:41	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I1804	09/18/24 11:27	09/18/24 18:41	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I1804	09/18/24 11:27	09/18/24 18:41	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I1804	09/18/24 11:27	09/18/24 18:41	EPA 8021B	
Xylene (o)	**0.00131**	0.00100	mg/L	1	P4I1804	09/18/24 11:27	09/18/24 18:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P4I1804*	*09/18/24 11:27*	*09/18/24 18:41*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.3 %*	*80-120*		*P4I1804*	*09/18/24 11:27*	*09/18/24 18:41*	*EPA 8021B*	
Total BTEX	**0.0551**	0.00100	mg/L	1	[CALC]	09/18/24 11:27	09/18/24 18:41	EPA 8021B	
Xylenes (total)	**0.00131**	0.00100	mg/L	1	[CALC]	09/18/24 11:27	09/18/24 18:41	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-11A

4I17015-02 (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	P4I1804	09/18/24 11:27	09/18/24 19:03	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I1804	09/18/24 11:27	09/18/24 19:03	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I1804	09/18/24 11:27	09/18/24 19:03	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I1804	09/18/24 11:27	09/18/24 19:03	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I1804	09/18/24 11:27	09/18/24 19:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P4I1804*	*09/18/24 11:27*	*09/18/24 19:03*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*88.1 %*	*80-120*		*P4I1804*	*09/18/24 11:27*	*09/18/24 19:03*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/18/24 11:27	09/18/24 19:03	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/18/24 11:27	09/18/24 19:03	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4I1804 - * DEFAULT PREP *****										
Blank (P4I1804-BLK1)				Prepared & Analyzed: 09/18/24						
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	*0.126*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.106*		*"*	*0.120*		*88.7*	*80-120*			
LCS (P4I1804-BS1)				Prepared & Analyzed: 09/18/24						
Benzene	0.0953	0.00100	mg/L	0.100		95.3	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		117	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 4-Bromofluorobenzene	*0.130*		*"*	*0.120*		*108*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.2*	*80-120*			
LCS Dup (P4I1804-BSD1)				Prepared & Analyzed: 09/18/24						
Benzene	0.101	0.00100	mg/L	0.100		101	80-120	6.15	20	
Toluene	0.108	0.00100	"	0.100		108	80-120	7.14	20	
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120	4.40	20	
Xylene (p/m)	0.239	0.00200	"	0.200		120	80-120	1.84	20	
Xylene (o)	0.110	0.00100	"	0.100		110	80-120	6.87	20	
Surrogate: 4-Bromofluorobenzene	*0.130*		*"*	*0.120*		*108*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*94.9*	*80-120*			
Calibration Blank (P4I1804-CCB1)				Prepared & Analyzed: 09/18/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.124*		*"*	*0.120*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.105*		*"*	*0.120*		*87.6*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4I1804 - * DEFAULT PREP *****										
Calibration Blank (P4I1804-CCB2)				Prepared & Analyzed: 09/18/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.170		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.120*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.107*		*"*	*0.120*		*88.9*	*80-120*			
Calibration Check (P4I1804-CCV1)				Prepared & Analyzed: 09/18/24						
Benzene	0.0978	0.00100	mg/L	0.100		97.8	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)	0.232	0.00200	"	0.200		116	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*93.9*	*80-120*			
Calibration Check (P4I1804-CCV2)				Prepared & Analyzed: 09/18/24						
Benzene	0.101	0.00100	mg/L	0.100		101	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.236	0.00200	"	0.200		118	80-120			
Xylene (o)	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 4-Bromofluorobenzene	*0.130*		*"*	*0.120*		*108*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.3*	*80-120*			
Calibration Check (P4I1804-CCV3)				Prepared & Analyzed: 09/18/24						
Benzene	0.0955	0.00100	mg/L	0.100		95.5	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	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	*0.125*		*"*	*0.120*		*104*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.0*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4I1804 - * DEFAULT PREP *****										
Matrix Spike (P4I1804-MS1)		**Source: 4I17008-06**		Prepared & Analyzed: 09/18/24						
Benzene	0.106	0.00100	mg/L	0.100	ND	106	80-120			
Toluene	0.114	0.00100	"	0.100	ND	114	80-120			
Ethylbenzene	0.119	0.00100	"	0.100	ND	119	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200	ND	119	80-120			
Xylene (o)	0.113	0.00100	"	0.100	ND	113	80-120			
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.120*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*94.6*	*80-120*			
Matrix Spike Dup (P4I1804-MSD1)		**Source: 4I17008-06**		Prepared & Analyzed: 09/18/24						
Benzene	0.107	0.00100	mg/L	0.100	ND	107	80-120	0.103	20	
Toluene	0.113	0.00100	"	0.100	ND	113	80-120	0.787	20	
Ethylbenzene	0.118	0.00100	"	0.100	ND	118	80-120	0.877	20	
Xylene (p/m)	0.239	0.00200	"	0.200	ND	120	80-120	0.260	20	
Xylene (o)	0.113	0.00100	"	0.100	ND	113	80-120	0.274	20	
Surrogate: 4-Bromofluorobenzene	*0.129*		*"*	*0.120*		*108*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.5*	*80-120*			

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
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.
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: 9/26/2024

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: Kayla Saylor

Project Name: CS Caylor
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10250
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only)
ORDER #: 417015

Analyze For: TCLP: TOTAL:

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	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-6A			9-17-24	950		3	3		3						GW			X										X
2	MW-11A			9-17-24	9:02		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
Kayla Saylor	9/17/24	15:38			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
			Nisa Blease	9/17/24	15:38

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: 5.1 °C Thermometer: NCF
Adjusted: °C Factor: L3

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

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: CS CAYLOR

Project Number: SRS#2002-10250

Location: Lea County, NM

Lab Order Number: 4I19004

Current Certification

Report Date: 09/26/24

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-17A	4I19004-01	Water	09/17/24 16:47	09-18-2024 16:34
MW-16A	4I19004-02	Water	09/17/24 16:20	09-18-2024 16:34
MW-15A	4I19004-03	Water	09/17/24 15:44	09-18-2024 16:34
MW-14A	4I19004-04	Water	09/17/24 14:56	09-18-2024 16:34
MW-13A	4I19004-05	Water	09/17/24 14:26	09-18-2024 16:34
MW-18A	4I19004-06	Water	09/17/24 10:31	09-18-2024 16:34

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-17A

4I19004-01 (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	P4I2005	09/20/24 13:59	09/20/24 22:08	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 22:08	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 22:08	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 22:08	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 22:08	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P4I2005*	*09/20/24 13:59*	*09/20/24 22:08*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.0 %*	*80-120*		*P4I2005*	*09/20/24 13:59*	*09/20/24 22:08*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/20/24 13:59	09/20/24 22:08	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/20/24 13:59	09/20/24 22:08	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-16A

4I19004-02 (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	P4I2005	09/20/24 13:59	09/20/24 22:30	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 22:30	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 22:30	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 22:30	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 22:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P4I2005*	*09/20/24 13:59*	*09/20/24 22:30*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*88.8 %*	*80-120*		*P4I2005*	*09/20/24 13:59*	*09/20/24 22:30*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/20/24 13:59	09/20/24 22:30	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/20/24 13:59	09/20/24 22:30	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-15A

4I19004-03 (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	P4I2005	09/20/24 13:59	09/20/24 22:52	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 22:52	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 22:52	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 22:52	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 22:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P4I2005*	*09/20/24 13:59*	*09/20/24 22:52*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.1 %*	*80-120*		*P4I2005*	*09/20/24 13:59*	*09/20/24 22:52*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/20/24 13:59	09/20/24 22:52	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/20/24 13:59	09/20/24 22:52	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-14A

4I19004-04 (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	P4I2005	09/20/24 13:59	09/20/24 23:14	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 23:14	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 23:14	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 23:14	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 23:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P4I2005*	*09/20/24 13:59*	*09/20/24 23:14*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*88.6 %*	*80-120*		*P4I2005*	*09/20/24 13:59*	*09/20/24 23:14*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/20/24 13:59	09/20/24 23:14	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/20/24 13:59	09/20/24 23:14	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-13A

4I19004-05 (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	P4I2005	09/20/24 13:59	09/20/24 23:36	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 23:36	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 23:36	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 23:36	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 23:36	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P4I2005*	*09/20/24 13:59*	*09/20/24 23:36*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*88.9 %*	*80-120*		*P4I2005*	*09/20/24 13:59*	*09/20/24 23:36*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/20/24 13:59	09/20/24 23:36	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/20/24 13:59	09/20/24 23:36	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-18A

4I19004-06 (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	P4I2005	09/20/24 13:59	09/20/24 23:57	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 23:57	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 23:57	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 23:57	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4I2005	09/20/24 13:59	09/20/24 23:57	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P4I2005*	*09/20/24 13:59*	*09/20/24 23:57*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*88.8 %*	*80-120*		*P4I2005*	*09/20/24 13:59*	*09/20/24 23:57*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/20/24 13:59	09/20/24 23:57	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/20/24 13:59	09/20/24 23:57	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4I2005 - * DEFAULT PREP *****										
Blank (P4I2005-BLK1)				Prepared & Analyzed: 09/20/24						
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	*0.128*		*"*	*0.120*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.106*		*"*	*0.120*		*88.1*	*80-120*			
LCS (P4I2005-BS1)				Prepared & Analyzed: 09/20/24						
Benzene	0.0970	0.00100	mg/L	0.100		97.0	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.238	0.00200	"	0.200		119	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	*0.132*		*"*	*0.120*		*110*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*96.1*	*80-120*			
LCS Dup (P4I2005-BSD1)				Prepared & Analyzed: 09/20/24						
Benzene	0.0962	0.00100	mg/L	0.100		96.2	80-120	0.735	20	
Toluene	0.104	0.00100	"	0.100		104	80-120	0.383	20	
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120	0.0924	20	
Xylene (p/m)	0.237	0.00200	"	0.200		118	80-120	0.484	20	
Xylene (o)	0.107	0.00100	"	0.100		107	80-120	0.986	20	
Surrogate: 4-Bromofluorobenzene	*0.132*		*"*	*0.120*		*110*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.9*	*80-120*			
Calibration Blank (P4I2005-CCB1)				Prepared & Analyzed: 09/20/24						
Benzene	0.00		ug/l							
Toluene	0.400		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.105*		*"*	*0.120*		*87.2*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4I2005 - * DEFAULT PREP *****										
Calibration Blank (P4I2005-CCB2)				Prepared & Analyzed: 09/20/24						
Benzene	0.00		ug/l							
Toluene	0.300		"							
Ethylbenzene	0.230		"							
Xylene (p/m)	0.250		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*104*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.106*		*"*	*0.120*		*88.6*	*80-120*			
Calibration Blank (P4I2005-CCB3)				Prepared: 09/20/24 Analyzed: 09/21/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.106*		*"*	*0.120*		*88.6*	*80-120*			
Calibration Check (P4I2005-CCV1)				Prepared & Analyzed: 09/20/24						
Benzene	0.102	0.00100	mg/L	0.100		102	80-120			
Toluene	0.110	0.00100	"	0.100		110	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.240	0.00200	"	0.200		120	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.110*		*"*	*0.120*		*91.2*	*80-120*			
Calibration Check (P4I2005-CCV2)				Prepared & Analyzed: 09/20/24						
Benzene	0.104	0.00100	mg/L	0.100		104	80-120			
Toluene	0.110	0.00100	"	0.100		110	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		119	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 4-Bromofluorobenzene	*0.124*		*"*	*0.120*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.110*		*"*	*0.120*		*91.8*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4I2005 - * DEFAULT PREP *****										
Calibration Check (P4I2005-CCV3)				Prepared: 09/20/24 Analyzed: 09/21/24						
Benzene	0.100	0.00100	mg/L	0.100		100	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		120	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*104*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.110*		*"*	*0.120*		*91.5*	*80-120*			
Matrix Spike (P4I2005-MS1)		**Source: 4I19003-14**		Prepared: 09/20/24 Analyzed: 09/21/24						
Benzene	0.0825	0.00100	mg/L	0.100	ND	82.5	80-120			
Toluene	0.0838	0.00100	"	0.100	ND	83.8	80-120			
Ethylbenzene	0.0926	0.00100	"	0.100	ND	92.6	80-120			
Xylene (p/m)	0.191	0.00200	"	0.200	ND	95.6	80-120			
Xylene (o)	0.0821	0.00100	"	0.100	ND	82.1	80-120			
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.4*	*80-120*			
Matrix Spike Dup (P4I2005-MSD1)		**Source: 4I19003-14**		Prepared: 09/20/24 Analyzed: 09/21/24						
Benzene	0.115	0.00100	mg/L	0.100	ND	115	80-120	33.3	20	R3
Toluene	0.124	0.00100	"	0.100	ND	124	80-120	38.9	20	R3
Ethylbenzene	0.140	0.00100	"	0.100	ND	140	80-120	41.0	20	R3
Xylene (p/m)	0.276	0.00200	"	0.200	ND	138	80-120	36.2	20	R3
Xylene (o)	0.124	0.00100	"	0.100	ND	124	80-120	40.7	20	R3
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.4*	*80-120*			

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Notes and Definitions

ROI	Received on Ice
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
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: 9/26/2024

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: Kayla Saylor
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

Project Name: CS Caylor
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10250
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 4T19004

Analyze For: TCLP: TOTAL:

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	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-17A			9-17-24	4:47		3	3		3						GW			X		X
2	MW-16A			9-17-24	4:20		3	3		3						GW			X		X
3	MW-15A			9-17-24	3:44		3	3		3						GW			X		X
4	MW-14A			9-17-24	2:56		3	3		3						GW			X		X
5	MW-13A			9-17-24	2:26		3	3		3						GW			X		X
6	MW-18A			9-17-24	10:31		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
Kayla Saylor	9/18/24	16:34			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
			Teresa Bledsoe	9/18/24	16:34

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: 5.2 °C Thermometer: NS
Adjusted: °C Factor: 43

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

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: CS CAYLOR

Project Number: SRS#2002-10250

Location: Lea County, NM

Lab Order Number: 4L12009

Current Certification

Report Date: 12/17/24

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-11A	4L12009-01	Water	12/12/24 10:58	12-12-2024 14:51
MW-21	4L12009-02	Water	12/12/24 09:52	12-12-2024 14:51
MW-10A	4L12009-03	Water	12/12/24 08:43	12-12-2024 14:51

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-11A

4L12009-01 (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	P4L1312	12/13/24 15:21	12/14/24 17:51	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1312	12/13/24 15:21	12/14/24 17:51	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1312	12/13/24 15:21	12/14/24 17:51	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1312	12/13/24 15:21	12/14/24 17:51	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1312	12/13/24 15:21	12/14/24 17:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*75.2 %*	*80-120*		*P4L1312*	*12/13/24 15:21*	*12/14/24 17:51*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P4L1312*	*12/13/24 15:21*	*12/14/24 17:51*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/13/24 15:21	12/14/24 17:51	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/13/24 15:21	12/14/24 17:51	EPA 8021B	

Talon LPE		Project:	CS CAYLOR
2901 S. State Hwy 349		Project Number:	SRS#2002-10250
Midland TX, 79706		Project Manager:	David Adkins

MW-21

4L12009-02 (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	P4L1312	12/13/24 15:21	12/14/24 18:14	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1312	12/13/24 15:21	12/14/24 18:14	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1312	12/13/24 15:21	12/14/24 18:14	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1312	12/13/24 15:21	12/14/24 18:14	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1312	12/13/24 15:21	12/14/24 18:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*73.0 %*	*80-120*		*P4L1312*	*12/13/24 15:21*	*12/14/24 18:14*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*103 %*	*80-120*		*P4L1312*	*12/13/24 15:21*	*12/14/24 18:14*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/13/24 15:21	12/14/24 18:14	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/13/24 15:21	12/14/24 18:14	EPA 8021B	

Talon LPE		Project:	CS CAYLOR
2901 S. State Hwy 349		Project Number:	SRS#2002-10250
Midland TX, 79706		Project Manager:	David Adkins

MW-10A

4L12009-03 (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	P4L1312	12/13/24 15:21	12/14/24 18:36	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1312	12/13/24 15:21	12/14/24 18:36	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1312	12/13/24 15:21	12/14/24 18:36	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1312	12/13/24 15:21	12/14/24 18:36	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1312	12/13/24 15:21	12/14/24 18:36	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*74.8 %*	*80-120*		*P4L1312*	*12/13/24 15:21*	*12/14/24 18:36*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*103 %*	*80-120*		*P4L1312*	*12/13/24 15:21*	*12/14/24 18:36*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/13/24 15:21	12/14/24 18:36	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/13/24 15:21	12/14/24 18:36	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4L1312 - * DEFAULT PREP *****										
Blank (P4L1312-BLK1)				Prepared: 12/13/24 Analyzed: 12/14/24						
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	*0.0896*		*"*	*0.120*		*74.6*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.123*		*"*	*0.120*		*103*	*80-120*			
LCS (P4L1312-BS1)				Prepared: 12/13/24 Analyzed: 12/14/24						
Benzene	0.0971	0.00100	mg/L	0.100		97.1	80-120			
Toluene	0.0916	0.00100	"	0.100		91.6	80-120			
Ethylbenzene	0.0994	0.00100	"	0.100		99.4	80-120			
Xylene (p/m)	0.192	0.00200	"	0.200		96.0	80-120			
Xylene (o)	0.0883	0.00100	"	0.100		88.3	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0926*		*"*	*0.120*		*77.2*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.131*		*"*	*0.120*		*109*	*80-120*			
LCS Dup (P4L1312-BSD1)				Prepared: 12/13/24 Analyzed: 12/14/24						
Benzene	0.101	0.00100	mg/L	0.100		101	80-120	3.53	20	
Toluene	0.0960	0.00100	"	0.100		96.0	80-120	4.75	20	
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120	5.88	20	
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120	5.02	20	
Xylene (o)	0.0926	0.00100	"	0.100		92.6	80-120	4.73	20	
Surrogate: 4-Bromofluorobenzene	*0.0930*		*"*	*0.120*		*77.5*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.130*		*"*	*0.120*		*108*	*80-120*			
Calibration Blank (P4L1312-CCB1)				Prepared: 12/13/24 Analyzed: 12/14/24						
Benzene	0.250		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.370		"							
Xylene (p/m)	0.390		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.0909*		*"*	*0.120*		*75.7*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4L1312 - * DEFAULT PREP *****										
Calibration Blank (P4L1312-CCB2)				Prepared: 12/13/24 Analyzed: 12/14/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.160		"							
Xylene (p/m)	0.260		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.0894*		*"*	*0.120*		*74.5*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
Calibration Check (P4L1312-CCV1)				Prepared: 12/13/24 Analyzed: 12/14/24						
Benzene	0.107	0.00100	mg/L	0.100		107	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.214	0.00200	"	0.200		107	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0928*		*"*	*0.120*		*77.3*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.130*		*"*	*0.120*		*108*	*80-120*			
Calibration Check (P4L1312-CCV2)				Prepared: 12/13/24 Analyzed: 12/14/24						
Benzene	0.106	0.00100	mg/L	0.100		106	80-120			
Toluene	0.0986	0.00100	"	0.100		98.6	80-120			
Ethylbenzene	0.0962	0.00100	"	0.100		96.2	80-120			
Xylene (p/m)	0.203	0.00200	"	0.200		102	80-120			
Xylene (o)	0.0958	0.00100	"	0.100		95.8	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0929*		*"*	*0.120*		*77.4*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.130*		*"*	*0.120*		*108*	*80-120*			
Calibration Check (P4L1312-CCV3)				Prepared: 12/13/24 Analyzed: 12/15/24						
Benzene	0.101	0.00100	mg/L	0.100		101	80-120			
Toluene	0.0948	0.00100	"	0.100		94.8	80-120			
Ethylbenzene	0.0938	0.00100	"	0.100		93.8	80-120			
Xylene (p/m)	0.201	0.00200	"	0.200		101	80-120			
Xylene (o)	0.0936	0.00100	"	0.100		93.6	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0920*		*"*	*0.120*		*76.7*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.130*		*"*	*0.120*		*108*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4L1312 - * DEFAULT PREP *****										
Matrix Spike (P4L1312-MS1)		**Source: 4L12007-02**		Prepared: 12/13/24 Analyzed: 12/15/24						
Benzene	0.332	0.00100	mg/L	0.100	0.304	28.7	80-120			QM-05
Toluene	0.0783	0.00100	"	0.100	0.00159	76.7	80-120			QM-05
Ethylbenzene	0.121	0.00100	"	0.100	0.0244	96.4	80-120			
Xylene (p/m)	0.208	0.00200	"	0.200	0.0386	84.5	80-120			
Xylene (o)	0.0695	0.00100	"	0.100	ND	69.5	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.0915*		*"*	*0.120*		*76.2*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.124*		*"*	*0.120*		*103*	*80-120*			
Matrix Spike Dup (P4L1312-MSD1)		**Source: 4L12007-02**		Prepared: 12/13/24 Analyzed: 12/15/24						
Benzene	0.309	0.00100	mg/L	0.100	0.304	4.99	80-120	141	20	QM-05
Toluene	0.0670	0.00100	"	0.100	0.00159	65.4	80-120	15.9	20	QM-05
Ethylbenzene	0.109	0.00100	"	0.100	0.0244	85.0	80-120	12.5	20	
Xylene (p/m)	0.184	0.00200	"	0.200	0.0386	72.8	80-120	14.8	20	QM-05
Xylene (o)	0.0591	0.00100	"	0.100	ND	59.1	80-120	16.3	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.0910*		*"*	*0.120*		*75.8*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.125*		*"*	*0.120*		*104*	*80-120*			

Talon LPE		Project:	CS CAYLOR
2901 S. State Hwy 349		Project Number:	SRS#2002-10250
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
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: 12/17/2024

Brent Barron, Laboratory Director/Technical Director

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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: CS Caylor
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10250
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only) **ORDER #:** 4L12009

Analyze For: TCLP: TOTAL:

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)	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-11A			12-12-24	10:58		3	3		3						GW			X		X
2	MW-21			12-12-24	9:52		3	3		3						GW			X		X
3	MW-10A			12-12-24	8:43		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
Matthew Beasley	12/12/24	2:51			
			Received by PBEL: Marisa Bledsoe	12/12/24	14:57

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: 4.2 °C Thermometer: NCF
Adjusted: °C Factor: 13

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

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: CS CAYLOR

Project Number: SRS#2002-10250

Location: Lea County, NM

Lab Order Number: 4L12010

Current Certification

Report Date: 12/27/24

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-11A	4L12010-01	Water	12/12/24 10:58	12-12-2024 14:51
MW-21	4L12010-02	Water	12/12/24 09:52	12-12-2024 14:51
MW-10A	4L12010-03	Water	12/12/24 08:43	12-12-2024 14:51

RSK-175, Dissolved Fe and Mn, Alkalinity, Nitrate and Sulfate analysis were subcontracted to ALS Houston. Their report is attached after the Chain of Custody. Their TCEQ TNI certification number can be found here:
https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-11A

4L12010-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Ethane	ND	0.00100	mg/L	1	P4L2710	12/18/24 00:00	12/20/24 14:00	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P4L2710	12/18/24 00:00	12/20/24 14:00	8015M	SUB-13
Methane	**0.00141**	0.000500	mg/L	1	P4L2710	12/18/24 00:00	12/20/24 14:00	8015M	SUB-13
General Chemistry Parameters by EPA / Standard Methods									
Alkalinity as CaCO3	**344**	5.00	mg/L	1	P4L2710	12/19/24 16:35	12/19/24 16:35	EPA 310.1M	SUB-13
Nitrate as N	**2.10**	0.100	mg/L	1	P4L2710	12/18/24 00:00	12/21/24 10:44	EPA 300.0	O-04, SUB-13
Sulfate	**80.2**	0.500	mg/L	1	P4L2710	12/18/24 00:00	12/21/24 10:44	EPA 300.0	SUB-13
Dissolved Metals by EPA / Standard Methods									
Iron	ND	0.200	mg/L	1	P4L2710	12/18/24 00:00	12/21/24 17:32	EPA 6020A	SUB-13
Manganese	**0.00667**	0.00500	mg/L	1	P4L2710	12/18/24 00:00	12/21/24 17:32	EPA 6020A	SUB-13

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-21

4L12010-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Ethane	ND	0.00100	mg/L	1	P4L2710	12/18/24 00:00	12/20/24 14:18	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P4L2710	12/18/24 00:00	12/20/24 14:18	8015M	SUB-13
Methane	**0.00147**	0.000500	mg/L	1	P4L2710	12/18/24 00:00	12/20/24 14:18	8015M	SUB-13
General Chemistry Parameters by EPA / Standard Methods									
Alkalinity as CaCO3	**303**	5.00	mg/L	1	P4L2710	12/19/24 16:41	12/19/24 16:41	EPA 310.1M	SUB-13
Nitrate as N	**1.32**	0.100	mg/L	1	P4L2710	12/18/24 00:00	12/21/24 10:50	EPA 300.0	O-04, SUB-13
Sulfate	**63.4**	0.500	mg/L	1	P4L2710	12/18/24 00:00	12/21/24 10:50	EPA 300.0	SUB-13
Dissolved Metals by EPA / Standard Methods									
Iron	ND	0.200	mg/L	1	P4L2710	12/18/24 00:00	12/21/24 17:34	EPA 6020A	SUB-13
Manganese	**0.261**	0.00500	mg/L	1	P4L2710	12/18/24 00:00	12/21/24 17:34	EPA 6020A	SUB-13

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-10A

4L12010-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Ethane	ND	0.00100	mg/L	1	P4L2710	12/18/24 00:00	12/20/24 14:26	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P4L2710	12/18/24 00:00	12/20/24 14:26	8015M	SUB-13
Methane	**0.000965**	0.000500	mg/L	1	P4L2710	12/18/24 00:00	12/20/24 14:26	8015M	SUB-13
General Chemistry Parameters by EPA / Standard Methods									
Alkalinity as CaCO3	**286**	5.00	mg/L	1	P4L2710	12/19/24 16:47	12/19/24 16:47	EPA 310.1M	SUB-13
Nitrate as N	**1.64**	0.100	mg/L	1	P4L2710	12/18/24 00:00	12/21/24 10:55	EPA 300.0	O-04, SUB-13
Sulfate	**66.8**	0.500	mg/L	1	P4L2710	12/18/24 00:00	12/21/24 10:55	EPA 300.0	SUB-13
Dissolved Metals by EPA / Standard Methods									
Iron	ND	0.200	mg/L	1	P4L2710	12/18/24 00:00	12/21/24 17:37	EPA 6020A	SUB-13
Manganese	**0.0106**	0.00500	mg/L	1	P4L2710	12/18/24 00:00	12/21/24 17:37	EPA 6020A	SUB-13

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

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

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Notes and Definitions

SUB-13	Subcontract of analyte/analysis to ALS Houston.
ROI	Received on Ice
pH1	The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.
O-04	This sample was analyzed outside the EPA recommended holding time.
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: 12/27/2024

Brent Barron, Laboratory Director/Technical Director

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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
Project Name: CS Caylor
Company Name: Talon LPE
Project #: Plains All American Pipeline
Company Address: 408 Texas St.
Project Loc: Lea County, NM
City/State/Zip: Artesia, NM 88210
PO #: SRS# 2002-10250
Telephone No: 575-441-4835
Fax No: _____
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
Sampler Signature: Bartlett Medley
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only)
ORDER #: 4L12010

Analyze For: TCLP: / TOTAL:

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)	TPH: TX 1005 TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	MNA Parameters	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
1	MW-11A			12-12-24	10:59		5	5	1	3				1		GW				X		X
2	MW-21			12-12-24	9:52		5	5	1	3				1		GW				X		X
3	MW-10A			12-12-24	8:43		5	5	1	3				1		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
Matthew Beasley	12/12/24	2:51			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
			Melissa Bledsoe	12/12/24	4:51

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: 4.2 °C Thermometer: NCL
Adjusted: °C Factor: 23

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235

PBELAB_SUB_COC_V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name: PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: X Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly 1	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	$Na_2S_2O_3$	NONE 1 LITER UNPRESSERVED	125 ml. amber boston rounds	Matrix (DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other)	Analyze For: RSK SOP-175	Mn DISS ISPWS 6020A	Fe DISS ICP-MS 6020A										24 Hour Rush	STANDARD
	4L12010-01			12/12/2024	10:58		4	X	X	X						W	X	X	X											X
	4L12010-02			12/12/2024	9:52		4	X	X	X						W	X	X	X											X
	4L12010-03			12/12/2024	8:43		4	X	X	X						W	X	X	X											X

Please add tressa@pbelab.com to woa's. This is all the sample that was available please analyze. 24 HR. RUSH PLEASE.

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron	12/12/2024	17:00			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

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: °C		
Adjusted: °C Factor		

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

December 24, 2024

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS24120839**

Laboratory Results for: **4L12010**

Dear Brent Barron,

ALS Environmental received 3 sample(s) on Dec 13, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Jessica Monfore
Project manager

ALS Houston, US Date: 24-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L12010
Work Order: HS24120839

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24120839-01	4L12010-01	Water		12-Dec-2024 10:58	13-Dec-2024 09:30	☐
HS24120839-02	4L12010-02	Water		12-Dec-2024 09:52	13-Dec-2024 09:30	☐
HS24120839-03	4L12010-03	Water		12-Dec-2024 08:43	13-Dec-2024 09:30	☐

ALS Houston, US Date: 24-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L12010
Work Order: HS24120839

CASE NARRATIVE

Work Order Comments

- Sulfate, Nitrate, and Nitrite added. Run outside of HT per PBE.

GC Semivolatiles by Method RSK-175

Batch ID: R502881

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 222025

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E300

Batch ID: R503004

Sample ID: 4L12010-01 (HS24120839-01)

- Sample was analyzed outside of the holding time at the request of the client. Results should be considered estimated.

Sample ID: 4L12010-02 (HS24120839-02)

- Sample was analyzed outside of the holding time at the request of the client. Results should be considered estimated.

Sample ID: 4L12010-03 (HS24120839-03)

- Sample was analyzed outside of the holding time at the request of the client. Results should be considered estimated.

Sample ID: HS24121272-01MS

- MS and MSD are for an unrelated sample (Sulfate)

WetChemistry by Method SM2320B

Batch ID: R502868

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 24-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L12010
Sample ID: 4L12010-01
Collection Date: 12-Dec-2024 10:58

ANALYTICAL REPORT
WorkOrder:HS24120839
Lab ID:HS24120839-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		**Method:RSK-175**				Analyst: RG
Ethane	ND		1.00	ug/L	1	20-Dec-2024 14:00
Ethene	ND		1.00	ug/L	1	20-Dec-2024 14:00
Methane	**1.41**		**0.500**	**ug/L**	1	20-Dec-2024 14:00
DISSOLVED METALS BY SW6020A		**Method:SW6020A (dissolved)**		Prep:SW3010A / 18-Dec-2024		Analyst: MSC
Iron	ND		0.200	mg/L	1	21-Dec-2024 17:32
Manganese	**0.00667**		**0.00500**	**mg/L**	1	21-Dec-2024 17:32
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Nitrogen, Nitrate (As N)	**2.10**	H	**0.100**	**mg/L**	1	21-Dec-2024 10:44
Nitrogen, Nitrite (As N)	ND	H	0.100	mg/L	1	21-Dec-2024 10:44
Sulfate	**80.2**		**0.500**	**mg/L**	1	21-Dec-2024 10:44
ALKALINITY BY -2011		**Method:SM2320B**				Analyst: JAC
Alkalinity, Total (As CaCO3)	**344**		**5.00**	**mg/L**	1	19-Dec-2024 16:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 24-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L12010
Sample ID: 4L12010-02
Collection Date: 12-Dec-2024 09:52

ANALYTICAL REPORT
WorkOrder:HS24120839
Lab ID:HS24120839-02
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		**Method:RSK-175**				Analyst: RG
Ethane	ND		1.00	ug/L	1	20-Dec-2024 14:18
Ethene	ND		1.00	ug/L	1	20-Dec-2024 14:18
Methane	**1.47**		**0.500**	**ug/L**	1	20-Dec-2024 14:18
DISSOLVED METALS BY SW6020A		**Method:SW6020A (dissolved)**		Prep:SW3010A / 18-Dec-2024		Analyst: MSC
Iron	ND		0.200	mg/L	1	21-Dec-2024 17:34
Manganese	**0.261**		**0.00500**	**mg/L**	1	21-Dec-2024 17:34
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Nitrogen, Nitrate (As N)	**1.32**	H	**0.100**	**mg/L**	1	21-Dec-2024 10:50
Nitrogen, Nitrite (As N)	ND	H	0.100	mg/L	1	21-Dec-2024 10:50
Sulfate	**63.4**		**0.500**	**mg/L**	1	21-Dec-2024 10:50
ALKALINITY BY -2011		**Method:SM2320B**				Analyst: JAC
Alkalinity, Total (As CaCO3)	**303**		**5.00**	**mg/L**	1	19-Dec-2024 16:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 24-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L12010
Sample ID: 4L12010-03
Collection Date: 12-Dec-2024 08:43

ANALYTICAL REPORT
WorkOrder:HS24120839
Lab ID:HS24120839-03
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		**Method:RSK-175**				Analyst: RG
Ethane	ND		1.00	ug/L	1	20-Dec-2024 14:26
Ethene	ND		1.00	ug/L	1	20-Dec-2024 14:26
Methane	**0.965**		**0.500**	**ug/L**	1	20-Dec-2024 14:26
DISSOLVED METALS BY SW6020A		**Method:SW6020A (dissolved)**		Prep:SW3010A / 18-Dec-2024		Analyst: MSC
Iron	ND		0.200	mg/L	1	21-Dec-2024 17:37
Manganese	**0.0106**		**0.00500**	**mg/L**	1	21-Dec-2024 17:37
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Nitrogen, Nitrate (As N)	**1.64**	H	**0.100**	**mg/L**	1	21-Dec-2024 10:55
Nitrogen, Nitrite (As N)	ND	H	0.100	mg/L	1	21-Dec-2024 10:55
Sulfate	**66.8**		**0.500**	**mg/L**	1	21-Dec-2024 10:55
ALKALINITY BY -2011		**Method:SM2320B**				Analyst: JAC
Alkalinity, Total (As CaCO3)	**286**		**5.00**	**mg/L**	1	19-Dec-2024 16:47

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 24-Dec-24

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP
Project: 4L12010
WorkOrder: HS24120839

Batch ID: 221848 **Start Date:** 14 Dec 2024 14:30 **End Date:** 14 Dec 2024 14:30
Method: SAMPLE FILTRATION - 0.45 MICRON FILTER **Prep Code:** FILTRATION

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24120839-01		100 (mL)	100 (mL)	1	250 mL plastic, Neat
HS24120839-02		100 (mL)	100 (mL)	1	250 mL plastic, Neat
HS24120839-03		100 (mL)	100 (mL)	1	250 mL plastic, Neat

Batch ID: 222025 **Start Date:** 18 Dec 2024 14:00 **End Date:** 18 Dec 2024 14:00
Method: DISS METALS PREP - WATER - SW3010A **Prep Code:** 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24120839-01		10 (mL)	10 (mL)	1	250 mL plastic, Neat
HS24120839-02		10 (mL)	10 (mL)	1	250 mL plastic, Neat
HS24120839-03		10 (mL)	10 (mL)	1	250 mL plastic, Neat

ALS Houston, US Date: 24-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L12010
WorkOrder: HS24120839

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 222025 (0)	**Test Name :** DISSOLVED METALS BY SW6020A				**Matrix:** Water	
HS24120839-01	4L12010-01	12 Dec 2024 10:58		18 Dec 2024 14:00	21 Dec 2024 17:32	1
HS24120839-02	4L12010-02	12 Dec 2024 09:52		18 Dec 2024 14:00	21 Dec 2024 17:34	1
HS24120839-03	4L12010-03	12 Dec 2024 08:43		18 Dec 2024 14:00	21 Dec 2024 17:37	1
Batch ID: R502868 (0)	**Test Name :** ALKALINITY BY -2011				**Matrix:** Water	
HS24120839-01	4L12010-01	12 Dec 2024 10:58			19 Dec 2024 16:35	1
HS24120839-02	4L12010-02	12 Dec 2024 09:52			19 Dec 2024 16:41	1
HS24120839-03	4L12010-03	12 Dec 2024 08:43			19 Dec 2024 16:47	1
Batch ID: R502881 (0)	**Test Name :** DISSOLVED GASES BY RSK-175				**Matrix:** Water	
HS24120839-01	4L12010-01	12 Dec 2024 10:58			20 Dec 2024 14:00	1
HS24120839-02	4L12010-02	12 Dec 2024 09:52			20 Dec 2024 14:18	1
HS24120839-03	4L12010-03	12 Dec 2024 08:43			20 Dec 2024 14:26	1
Batch ID: R503004 (0)	**Test Name :** ANIONS BY E300.0, REV 2.1, 1993				**Matrix:** Water	
HS24120839-01	4L12010-01	12 Dec 2024 10:58			21 Dec 2024 10:44	1
HS24120839-02	4L12010-02	12 Dec 2024 09:52			21 Dec 2024 10:50	1
HS24120839-03	4L12010-03	12 Dec 2024 08:43			21 Dec 2024 10:55	1

ALS Houston, US Date: 24-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L12010
WorkOrder: HS24120839

QC BATCH REPORT

Batch ID: R502881 (0) **Instrument:** FID-4 **Method:** DISSOLVED GASES BY RSK-175

MBLK Sample ID: **MBLK-241220** Units: **ug/L** Analysis Date: **20-Dec-2024 09:30**
Client ID: Run ID: **FID-4_502881** SeqNo: **8602300** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	ND	1.00								
Ethene	ND	1.00								
Methane	ND	0.500								

LCS Sample ID: **LCS-241220** Units: **ug/L** Analysis Date: **20-Dec-2024 09:41**
Client ID: Run ID: **FID-4_502881** SeqNo: **8602301** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	15.71	1.00	18.04	0	87.1	75 - 125				
Ethene	15.68	1.00	16.8	0	93.3	75 - 125				
Methane	8.736	0.500	9.647	0	90.6	75 - 125				

LCSD Sample ID: **LCSD-241220** Units: **ug/L** Analysis Date: **20-Dec-2024 09:51**
Client ID: Run ID: **FID-4_502881** SeqNo: **8602302** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	15.5	1.00	18.04	0	85.9	75 - 125	15.71	1.37	30	
Ethene	15.75	1.00	16.8	0	93.8	75 - 125	15.68	0.502	30	
Methane	8.296	0.500	9.647	0	86.0	75 - 125	8.736	5.18	30	

The following samples were analyzed in this batch: HS24120839-01 HS24120839-02 HS24120839-03

ALS Houston, US Date: 24-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L12010
WorkOrder: HS24120839

QC BATCH REPORT

Batch ID: 222025 (0) **Instrument:** ICPMS05 **Method:** DISSOLVED METALS BY SW6020A (DISSOLVED)

MBLK Sample ID: **MBLKF1-222025** Units: **mg/L** Analysis Date: **21-Dec-2024 16:30**
Client ID: Run ID: **ICPMS05_502978** SeqNo: **8605069** PrepDate: **18-Dec-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	ND	0.200								
Manganese	ND	0.00500								

MBLK Sample ID: **MBLK-222025** Units: **mg/L** Analysis Date: **21-Dec-2024 16:27**
Client ID: Run ID: **ICPMS05_502978** SeqNo: **8605068** PrepDate: **18-Dec-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	ND	0.200								
Manganese	ND	0.00500								

LCS Sample ID: **LCS-222025** Units: **mg/L** Analysis Date: **21-Dec-2024 16:32**
Client ID: Run ID: **ICPMS05_502978** SeqNo: **8605070** PrepDate: **18-Dec-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.676	0.200	5	0	93.5	80 - 120				
Manganese	0.04504	0.00500	0.05	0	90.1	80 - 120				

MS Sample ID: **HS24120837-03MS** Units: **mg/L** Analysis Date: **21-Dec-2024 17:02**
Client ID: Run ID: **ICPMS05_502978** SeqNo: **8605100** PrepDate: **18-Dec-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.7	0.200	5	0.007293	93.8	75 - 125				
Manganese	0.05955	0.00500	0.05	0.01454	90.0	75 - 125				

MSD Sample ID: **HS24120837-03MSD** Units: **mg/L** Analysis Date: **21-Dec-2024 17:05**
Client ID: Run ID: **ICPMS05_502978** SeqNo: **8605101** PrepDate: **18-Dec-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.607	0.200	5	0.007293	92.0	75 - 125	4.7	1.99	20	
Manganese	0.05983	0.00500	0.05	0.01454	90.6	75 - 125	0.05955	0.466	20	

ALS Houston, US Date: 24-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L12010
WorkOrder: HS24120839

QC BATCH REPORT

Batch ID: 222025 (0) **Instrument:** ICPMS05 **Method:** DISSOLVED METALS BY SW6020A (DISSOLVED)

PDS Sample ID: **HS24120837-03PDS** Units: **mg/L** Analysis Date: **21-Dec-2024 17:07**
Client ID: Run ID: **ICPMS05_502978** SeqNo: **8605102** PrepDate: **18-Dec-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	9.212	0.200	10	0.007293	92.0	75 - 125				
Manganese	0.1053	0.00500	0.1	0.01454	90.8	75 - 125				

SD Sample ID: **HS24120837-03SD** Units: **mg/L** Analysis Date: **21-Dec-2024 17:00**
Client ID: Run ID: **ICPMS05_502978** SeqNo: **8605099** PrepDate: **18-Dec-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Iron	ND	1.00					0.007293	0	10	
Manganese	0.01469	0.0250					0.01454	0	10	J

The following samples were analyzed in this batch: HS24120839-01 HS24120839-02 HS24120839-03

ALS Houston, US Date: 24-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L12010
WorkOrder: HS24120839

QC BATCH REPORT

Batch ID: R502868 (0) **Instrument:** Skalar 03 **Method:** ALKALINITY BY -2011

MBLK Sample ID: **MBLK-12192024** Units: **mg/L** Analysis Date: **19-Dec-2024 15:16**
Client ID: Run ID: **Skalar 03_502868** SeqNo: **8602060** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	ND	5.00								

LCS Sample ID: **LCS-12192024** Units: **mg/L** Analysis Date: **19-Dec-2024 15:22**
Client ID: Run ID: **Skalar 03_502868** SeqNo: **8602061** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	945.5	5.00	1000	0	94.6	85 - 115				

LCSD Sample ID: **LCSD-12192024** Units: **mg/L** Analysis Date: **19-Dec-2024 15:28**
Client ID: Run ID: **Skalar 03_502868** SeqNo: **8602062** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	948.9	5.00	1000	0	94.9	85 - 115	945.5	0.359	20	

DUP Sample ID: **HS24120841-01DUP** Units: **mg/L** Analysis Date: **19-Dec-2024 15:40**
Client ID: Run ID: **Skalar 03_502868** SeqNo: **8602064** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	332.8	5.00					335.1	0.689	20	

The following samples were analyzed in this batch: HS24120839-01 HS24120839-02 HS24120839-03

ALS Houston, US Date: 24-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L12010
WorkOrder: HS24120839

QC BATCH REPORT

Batch ID: R503004 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **21-Dec-2024 07:25**
Client ID: Run ID: **ICS-Integrion_503004** SeqNo: **8605516** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	ND	0.100								
Nitrogen, Nitrite (As N)	ND	0.100								
Sulfate	ND	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **21-Dec-2024 07:31**
Client ID: Run ID: **ICS-Integrion_503004** SeqNo: **8605517** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	3.82	0.100	4	0	95.5	90 - 110				
Nitrogen, Nitrite (As N)	3.961	0.100	4	0	99.0	90 - 110				
Sulfate	18.49	0.500	20	0	92.5	90 - 110				

MS Sample ID: **HS24121272-01MS** Units: **mg/L** Analysis Date: **21-Dec-2024 07:48**
Client ID: Run ID: **ICS-Integrion_503004** SeqNo: **8605519** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	2.044	0.100	2	0.0576	99.3	80 - 120				
Nitrogen, Nitrite (As N)	1.961	0.100	2	0.1272	91.7	80 - 120				
Sulfate	15.7	0.500	10	3.449	123	80 - 120				S

MS Sample ID: **HS24121161-01MS** Units: **mg/L** Analysis Date: **21-Dec-2024 09:04**
Client ID: Run ID: **ICS-Integrion_503004** SeqNo: **8605529** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	6.237	0.100	2	4.566	83.6	80 - 120				
Nitrogen, Nitrite (As N)	1.956	0.100	2	0.1291	91.4	80 - 120				
Sulfate	27.62	0.500	10	19.32	83.0	80 - 120				

ALS Houston, US Date: 24-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L12010
WorkOrder: HS24120839

QC BATCH REPORT

Batch ID: R503004 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY E300.0, REV 2.1, 1993**

MSD Sample ID: **HS24121272-01MSD** Units: **mg/L** Analysis Date: **21-Dec-2024 07:54**
Client ID: Run ID: **ICS-Integrion_503004** SeqNo: **8605520** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	2.044	0.100	2	0.0576	99.3	80 - 120	2.044	0.00489	20	
Nitrogen, Nitrite (As N)	1.962	0.100	2	0.1272	91.8	80 - 120	1.961	0.0663	20	
Sulfate	15.53	0.500	10	3.449	121	80 - 120	15.7	1.14	20	S

MSD Sample ID: **HS24121161-01MSD** Units: **mg/L** Analysis Date: **21-Dec-2024 09:10**
Client ID: Run ID: **ICS-Integrion_503004** SeqNo: **8605530** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	6.252	0.100	2	4.566	84.3	80 - 120	6.237	0.247	20	
Nitrogen, Nitrite (As N)	1.955	0.100	2	0.1291	91.3	80 - 120	1.956	0.0614	20	
Sulfate	27.65	0.500	10	19.32	83.3	80 - 120	27.62	0.108	20	

The following samples were analyzed in this batch: HS24120839-01 HS24120839-02 HS24120839-03

ALS Houston, US Date: 24-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L12010
WorkOrder: **HS24120839**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Dept of Defense	L24-240	30-Apr-2026
Dept of Defense	L24-239	30-Apr-2026
Florida	E87611-38	30-Jun-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2025
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2025

ALS Houston, US Date: 24-Dec-24

Sample Receipt Checklist

Work Order ID: HS24120839 **Date/Time Received:** 13-Dec-2024 09:30
Client Name: Permian Basin Lab **Received by:** Jacob Coronado

Completed By: /S/ Paresh M. Giga (eSignature) 13-Dec-2024 18:21 (Date/Time) **Reviewed by:** /S/ Jessica Monfore (eSignature) 18-Dec-2024 13:25 (Date/Time)

Matrices: **Water** Carrier name: **FedEx Priority Overnight**

	Yes	No	
Shipping container/cooler in good condition?	☑	☐	Not Present ☐
Custody seals intact on shipping container/cooler?	☐	☐	Not Present ☑
Custody seals intact on sample bottles?	☐	☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐	☐	Not Present ☑
Chain of custody present?	☑	☐	1 Page(s)
Chain of custody signed when relinquished and received?	☑	☐	COC IDs: none
Samplers name present on COC?	☐	☑	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	

Temperature(s)/Thermometer(s):	3.4C U/C	IR34
Cooler(s)/Kit(s):	Blue	
Date/Time sample(s) sent to storage:	12/13/24 18:50	

	Yes	No	
Water - VOA vials have zero headspace?	☑	☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	☑	☐	N/A ☐
pH adjusted?	☐	☑	N/A ☐

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

PBELAB

CHAIN OF CUSTOD

HS24120839

Permian Basin Environmental Lab, LP

4L12010

LP

Phone: 432-686-7235

PBELAB_SUB_COC_V2

Project Manager: Brent Barron

Company Name: PBEL

Company Address: 1400 Rankin HWY

City/State/Zip: Midland Texas 79701

Telephone No: 432-661-4184

Fax No:

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

Project Name: SUBCONTRACT

Project #:

Project Loc:

PO #:

Report Format: X Standard ☐ TRRP ☐ NPDES

ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly 2	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	$Na_2S_2O_3$	NONE 1 LITER UNPRESERVED	125 ml. amber boston rounds	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: RSK SOP-175	Mn DISS ISPMS 6020A	Fe DISS ICP-MS 6020A									24 Hour Rush	STANDARD
	4L12010-01			12/12/2024	10:58		4	X	X	X						W	X	X	X										X
	4L12010-02			12/12/2024	9:52		4	X	X	X						W	X	X	X										X
	4L12010-03			12/12/2024	8:43		4	X	X	X						W	X	X	X										X

Please add tressa@pbelab.com to woa's. This is all the sample that was available please analyze. ~~24 HR. RUSH PLEASE.~~ TB

Blue 34 / 72L

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron	12/12/2024	17:00		12/13/24	0910
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

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: °C

Adjusted: °C Factor

ORIGIN ID:MAFA (432) 686-7235
TRESSA SLEDGE
PERMIAN BASIN ENVIRONMENTAL LAB, LP
1401 SPANION HWY
MIDLAND, TX 79701
UNITED STATES US

SHIP DATE: 12DEC24
ACTWGT: 40.00 LB
CAD: 1871366/INET4535
DIMS: 23x12x13 IN

BILL RECIPIENT

TO SAMPLE RECEIVING
ALS-HOUSTON
10450 STANCLIFF RD
HOUSTON TX 77099
(281) 530-5315
REF
PO:
DEPT:

FedEx Express

58GJ4/EB78/0BC4

TRK# 7707 2426 9846

FRI - 13 DEC 5:00P
STANDARD OVERNIGHT

AB SGRA

77099
TX-US IAH

After printing this label:
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PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: CS CAYLOR

Project Number: SRS#2002-10250

Location: Lea County, NM

Lab Order Number: 4L13006

Current Certification

Report Date: 01/14/25

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6A	4L13006-01	Water	12/13/24 08:01	12-13-2024 12:33

RSK-175, and Dissolved Fe and Mn analysis were subcontracted to ALS Houston. Their report is attached after the Chain of Custody. Their TCEQ TNI certification number can be found here:
https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-6A

4L13006-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Ethane	ND	0.00100	mg/L	1	P4L3104	12/19/24 00:00	12/23/24 09:13	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P4L3104	12/19/24 00:00	12/23/24 09:13	8015M	SUB-13
Methane	**0.00172**	0.000500	mg/L	1	P4L3104	12/19/24 00:00	12/23/24 09:13	8015M	SUB-13
General Chemistry Parameters by EPA / Standard Methods									
Total Alkalinity	**290**	10.0	mg/L	1	P5A1307	01/13/25 14:49	01/13/25 14:49	EPA 310.1M	O-04
Carbonate Alkalinity	ND	10.0	mg/L	1	P5A1307	01/13/25 14:49	01/13/25 14:49	EPA 310.1M	O-04
Bicarbonate Alkalinity	**290**	10.0	mg/L	1	P5A1307	01/13/25 14:49	01/13/25 14:49	EPA 310.1M	O-04
Hydroxide Alkalinity	ND	10.0	mg/L	1	P5A1307	01/13/25 14:49	01/13/25 14:49	EPA 310.1M	O-04
Nitrate as N	**1.62**	0.200	mg/L	1	P4L1706	12/14/24 09:55	12/17/24 12:04	EPA 300.0	
Sulfate	**68.7**	1.00	mg/L	1	P4L1706	12/17/24 09:55	12/17/24 12:04	EPA 300.0	
Dissolved Metals by EPA / Standard Methods									
Iron	ND	0.200	mg/L	1	P4L3104	12/19/24 00:00	12/20/24 01:46	EPA 6020A	SUB-13
Manganese	**0.00758**	0.00500	mg/L	1	P4L3104	12/19/24 00:00	12/20/24 01:46	EPA 6020A	SUB-13

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

General Chemistry Parameters by EPA / Standard Methods - 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 P4L1706 - * DEFAULT PREP *****										
Blank (P4L1706-BLK1)				Prepared & Analyzed: 12/17/24						
Nitrate as N	ND	0.200	mg/L							
Sulfate	ND	1.00	"							
LCS (P4L1706-BS1)				Prepared & Analyzed: 12/17/24						
Nitrate as N	19.1		mg/L	20.0		95.3	90-110			
Sulfate	18.4		"	20.0		92.1	90-110			
LCS Dup (P4L1706-BSD1)				Prepared & Analyzed: 12/17/24						
Nitrate as N	19.1		mg/L	20.0		95.4	90-110	0.105	10	
Sulfate	18.4		"	20.0		92.2	90-110	0.108	10	
Calibration Check (P4L1706-CCV1)				Prepared & Analyzed: 12/17/24						
Nitrate as N	19.1		mg/L	20.0		95.3	90-110			
Sulfate	18.4		"	20.0		92.1	90-110			
Calibration Check (P4L1706-CCV2)				Prepared & Analyzed: 12/17/24						
Nitrate as N	19.1		mg/L	20.0		95.5	90-110			
Sulfate	18.5		"	20.0		92.5	90-110			
Duplicate (P4L1706-DUP1)		**Source: 4L13006-01**		Prepared & Analyzed: 12/17/24						
Sulfate	60.7	1.00	mg/L		68.7			12.4	20	
Nitrate as N	1.59	0.200	"		1.62			1.87	20	
Batch P5A1307 - * DEFAULT PREP *****										
Blank (P5A1307-BLK1)				Prepared & Analyzed: 01/13/25						
Total Alkalinity	ND	10.0	mg/L							
Carbonate Alkalinity	ND	10.0	"							
Bicarbonate Alkalinity	ND	10.0	"							
Hydroxide Alkalinity	ND	10.0	"							

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

General Chemistry Parameters by EPA / Standard Methods - 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 P5A1307 - * DEFAULT PREP *****										
LCS (P5A1307-BS1)				Prepared & Analyzed: 01/13/25						
Total Alkalinity	250		mg/L	250		100	80-120			
Carbonate Alkalinity	ND	10.0	"				80-120			
Bicarbonate Alkalinity	250	10.0	"				80-120			
Hydroxide Alkalinity	ND	10.0	"				80-120			
LCS Dup (P5A1307-BSD1)				Prepared & Analyzed: 01/13/25						
Total Alkalinity	260		mg/L	250		104	80-120	3.92	20	
Carbonate Alkalinity	ND	10.0	"				80-120		20	
Bicarbonate Alkalinity	260	10.0	"				80-120	3.92	20	
Hydroxide Alkalinity	ND	10.0	"				80-120		20	
Duplicate (P5A1307-DUP1)		**Source: 4L13006-01**		Prepared & Analyzed: 01/13/25						
Total Alkalinity	280	10.0	mg/L		290			3.51	20	
Carbonate Alkalinity	ND	10.0	"		ND				20	
Bicarbonate Alkalinity	280	10.0	"		290			3.51	20	
Hydroxide Alkalinity	ND	10.0	"		ND				20	

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Notes and Definitions

SUB-13	Subcontract of analyte/analysis to ALS Houston.
ROI	Received on Ice
pH1	The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.
O-04	This sample was analyzed outside the EPA recommended holding time.
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: 1/14/2025

Brent Barron, Laboratory Director/Technical Director

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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: CS Caylor
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10250
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only)
ORDER #: 4L130006

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	MNA Parameters	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
1	MW-6A			12-13-24	8:01		5	5	1	3				1		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
Matthew Beasley	12/13/24	12:33			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
			Diana Bledroe	12/13/24	12:33

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: 2.3 °C Thermometer: UC3
Adjusted: °C Factor:

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235

PBELAB_SUB_COC_V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name: PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: X Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly 1	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	$Na_2S_2O_3$	NONE 1 LITER UNPRESSERVED	125 ml. amber boston rounds	Matrix (DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other)	Analyze For: RSK SOP-175	Mn DISS ICP 6010B	Fe DISS ICP 6010B											48 Hour Rush	STANDARD
	4L13006-01			12/13/2024	12:33	Y	4	X	X	X						W	X	X	X												X

Please add tressa@pbelab.com to woa's.

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron	12/16/2024	17:00			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

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: °C		
Adjusted: °C Factor		

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

December 23, 2024

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS24120955**

Laboratory Results for: **4L13006**

Dear Brent Barron,

ALS Environmental received 1 sample(s) on Dec 17, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Jessica Monfore
Project manager

ALS Houston, US Date: 23-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L13006
Work Order: HS24120955

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24120955-01	4L13006-01	Water		13-Dec-2024 12:33	17-Dec-2024 09:20	☐

ALS Houston, US Date: 23-Dec-24

Client: Permian Basin Environmental Lab, LP **CASE NARRATIVE**
Project: 4L13006
Work Order: HS24120955

GC Semivolatiles by Method RSK-175

Batch ID: R503032

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 222051

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 23-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L13006
Sample ID: 4L13006-01
Collection Date: 13-Dec-2024 12:33

ANALYTICAL REPORT
WorkOrder:HS24120955
Lab ID:HS24120955-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		**Method:RSK-175**				Analyst: RG
Ethane	ND		1.00	ug/L	1	23-Dec-2024 09:13
Ethene	ND		1.00	ug/L	1	23-Dec-2024 09:13
Methane	**1.72**		**0.500**	**ug/L**	1	23-Dec-2024 09:13
DISSOLVED METALS BY SW6020A		**Method:SW6020A (dissolved)**		Prep:SW3010A / 19-Dec-2024		Analyst: JC
Iron	ND		0.200	mg/L	1	20-Dec-2024 01:46
Manganese	**0.00758**		**0.00500**	**mg/L**	1	20-Dec-2024 01:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 23-Dec-24

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP
Project: 4L13006
WorkOrder: HS24120955

Batch ID: 222051 **Start Date:** 19 Dec 2024 11:00 **End Date:** 19 Dec 2024 11:00
Method: DISS METALS PREP - WATER - SW3010A **Prep Code:** 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24120955-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

ALS Houston, US Date: 23-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L13006
WorkOrder: HS24120955

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 222051 (0)	**Test Name :** DISSOLVED METALS BY SW6020A				**Matrix:** Water	
HS24120955-01	4L13006-01	13 Dec 2024 12:33		19 Dec 2024 11:00	20 Dec 2024 01:46	1
Batch ID: R503032 (0)	**Test Name :** DISSOLVED GASES BY RSK-175				**Matrix:** Water	
HS24120955-01	4L13006-01	13 Dec 2024 12:33			23 Dec 2024 09:13	1

ALS Houston, US Date: 23-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L13006
WorkOrder: HS24120955

QC BATCH REPORT

Batch ID: R503032 (0) **Instrument:** FID-4 **Method:** DISSOLVED GASES BY RSK-175

MBLK Sample ID: **MBLK-241223** Units: **ug/L** Analysis Date: **23-Dec-2024 07:40**
Client ID: Run ID: **FID-4_503032** SeqNo: **8606062** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	ND	1.00								
Ethene	ND	1.00								
Methane	ND	0.500								

LCS Sample ID: **LCS-241223** Units: **ug/L** Analysis Date: **23-Dec-2024 07:51**
Client ID: Run ID: **FID-4_503032** SeqNo: **8606063** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	15.33	1.00	18.04	0	85.0	75 - 125				
Ethene	14.21	1.00	16.8	0	84.6	75 - 125				
Methane	8.612	0.500	9.647	0	89.3	75 - 125				

LCSD Sample ID: **LCSD-241223** Units: **ug/L** Analysis Date: **23-Dec-2024 08:20**
Client ID: Run ID: **FID-4_503032** SeqNo: **8606064** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	14.9	1.00	18.04	0	82.6	75 - 125	15.33	2.88	30	
Ethene	14.07	1.00	16.8	0	83.8	75 - 125	14.21	0.997	30	
Methane	8.078	0.500	9.647	0	83.7	75 - 125	8.612	6.4	30	

The following samples were analyzed in this batch: HS24120955-01

ALS Houston, US Date: 23-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L13006
WorkOrder: HS24120955

QC BATCH REPORT

Batch ID: 222051 (0) **Instrument:** ICPMS06 **Method:** DISSOLVED METALS BY SW6020A (DISSOLVED)

MBLK Sample ID: **MBLK-222051** Units: **mg/L** Analysis Date: **20-Dec-2024 01:01**
Client ID: Run ID: **ICPMS06_502787** SeqNo: **8601363** PrepDate: **19-Dec-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	ND	0.200								
Manganese	ND	0.00500								

LCS Sample ID: **LCS-222051** Units: **mg/L** Analysis Date: **20-Dec-2024 01:03**
Client ID: Run ID: **ICPMS06_502787** SeqNo: **8601364** PrepDate: **19-Dec-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	4.73	0.200	5	0	94.6	80 - 120				
Manganese	0.046	0.00500	0.05	0	92.0	80 - 120				

MS Sample ID: **HS24120848-01MS** Units: **mg/L** Analysis Date: **20-Dec-2024 01:09**
Client ID: Run ID: **ICPMS06_502787** SeqNo: **8601367** PrepDate: **19-Dec-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	5.268	0.200	5	0.01822	105	75 - 125				
Manganese	0.06959	0.00500	0.05	0.01664	106	75 - 125				

MSD Sample ID: **HS24120848-01MSD** Units: **mg/L** Analysis Date: **20-Dec-2024 01:11**
Client ID: Run ID: **ICPMS06_502787** SeqNo: **8601368** PrepDate: **19-Dec-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	5.387	0.200	5	0.01822	107	75 - 125	5.268	2.23	20	
Manganese	0.0722	0.00500	0.05	0.01664	111	75 - 125	0.06959	3.68	20	

PDS Sample ID: **HS24120848-01PDS** Units: **mg/L** Analysis Date: **20-Dec-2024 01:13**
Client ID: Run ID: **ICPMS06_502787** SeqNo: **8601369** PrepDate: **19-Dec-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	10.07	0.200	10	0.01822	101	75 - 125				
Manganese	0.1165	0.00500	0.1	0.01664	99.8	75 - 125				

ALS Houston, US Date: 23-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L13006
WorkOrder: HS24120955

QC BATCH REPORT

Batch ID: 222051 (0) **Instrument:** ICPMS06 **Method:** DISSOLVED METALS BY SW6020A (DISSOLVED)

SD Sample ID: **HS24120848-01SD** Units: **mg/L** Analysis Date: **20-Dec-2024 01:07**
Client ID: Run ID: **ICPMS06_502787** SeqNo: **8601366** PrepDate: **19-Dec-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Iron	ND	1.00					0.01822	0	10	
Manganese	0.01558	0.0250					0.01664	0	10	J

The following samples were analyzed in this batch: HS24120955-01

ALS Houston, US Date: 23-Dec-24

Client: Permian Basin Environmental Lab, LP
Project: 4L13006
WorkOrder: **HS24120955**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Dept of Defense	L24-240	30-Apr-2026
Dept of Defense	L24-239	30-Apr-2026
Florida	E87611-38	30-Jun-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2025
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2025

ALS Houston, US Date: 23-Dec-24

Sample Receipt Checklist

Work Order ID: HS24120955 **Date/Time Received:** 17-Dec-2024 09:20
Client Name: Permian Basin Lab **Received by:** Jacob Coronado

Completed By: /S/ Paresh M. Giga (eSignature) 17-Dec-2024 11:48 (Date/Time) **Reviewed by:** /S/ salina zaid (eSignature) 17-Dec-2024 17:22 (Date/Time)

Matrices: **Water** Carrier name: **FedEx Priority Overnight**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:none
Samplers name present on COC?	Yes ☐	No ☑	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	1.7C U/C	IR34
Cooler(s)/Kit(s):	Red	
Date/Time sample(s) sent to storage:	12/17/24 12:05	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

PBELAB

CHAIN OF CUSTOI

HS24120955

Permian Basin Environmental Lab, LP , LP

4L13006

Phone: 432-686-7235

PBELAB_SUB_COC_V2

Project Manager: Brent Barron

Company Name PBEL

Company Address: 1400 Rankin HWY

City/State/Zip: Midland Texas 79701

Telephone No: 432-661-4184 Fax No:

Sampler Signature: N/A e-mail: brentbarron@pbelab.com

Project Name: SUBCONTRACT

Project #:

Project Loc:

PO #:

Report Format: X Standard TRRP NPDES

ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly 1	HCl 3 40ml VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	$Na_2S_2O_3$	NONE 1 LITER UNPRESERVED	125 ml. amber boston rounds	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	RSK SOP-175	Mn DISS ICP 6010B	Fe DISS ICP 6010B									48 Hour Rush	STANDARD
	4L13006-01			12/13/2024	12:33	Y	4	X	X	X						W	X	X	X										X

Analyze For:

Please add tressa@pbelab.com to woa's.

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron	12/16/2024	17:00			
Relinquished by:	Date	Time	Received by:	Date 12/17/24	Time 8:20
Relinquished by:	Date	Time	Received by:	Date	Time

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: °C

Adjusted: °C Factor

Rcd 12 + 4 °C

ORIGIN ID:KAFA (432) 686-7239
TRESSA BLERSOF
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MIDLAND, TX 79701
UNITED STATES US

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

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: CS CAYLOR

Project Number: SRS#2002-10250

Location: Lea County, NM

Lab Order Number: 4L13007

Current Certification

Report Date: 12/20/24

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-17A	4L13007-01	Water	12/12/24 13:46	12-13-2024 12:33
MW-16A	4L13007-02	Water	12/12/24 13:24	12-13-2024 12:33
MW-15A	4L13007-03	Water	12/12/24 13:03	12-13-2024 12:33
MW-14A	4L13007-04	Water	12/12/24 12:42	12-13-2024 12:33
MW-13A	4L13007-05	Water	12/12/24 12:23	12-13-2024 12:33
MW-18A	4L13007-06	Water	12/12/24 11:47	12-13-2024 12:33
MW-6A	4L13007-07	Water	12/13/24 08:01	12-13-2024 12:33

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-17A

4L13007-01 (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	P4L1609	12/16/24 10:48	12/16/24 21:17	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 21:17	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 21:17	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 21:17	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 21:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*77.9 %*	*80-120*		*P4L1609*	*12/16/24 10:48*	*12/16/24 21:17*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*103 %*	*80-120*		*P4L1609*	*12/16/24 10:48*	*12/16/24 21:17*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/16/24 10:48	12/16/24 21:17	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/16/24 10:48	12/16/24 21:17	EPA 8021B	

Talon LPE		Project:	CS CAYLOR
2901 S. State Hwy 349		Project Number:	SRS#2002-10250
Midland TX, 79706		Project Manager:	David Adkins

MW-16A

4L13007-02 (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	P4L1609	12/16/24 10:48	12/16/24 21:40	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 21:40	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 21:40	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 21:40	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 21:40	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*79.5 %*	*80-120*		*P4L1609*	*12/16/24 10:48*	*12/16/24 21:40*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P4L1609*	*12/16/24 10:48*	*12/16/24 21:40*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/16/24 10:48	12/16/24 21:40	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/16/24 10:48	12/16/24 21:40	EPA 8021B	

Talon LPE		Project:	CS CAYLOR
2901 S. State Hwy 349		Project Number:	SRS#2002-10250
Midland TX, 79706		Project Manager:	David Adkins

MW-15A

4L13007-03 (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	P4L1609	12/16/24 10:48	12/16/24 22:02	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 22:02	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 22:02	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 22:02	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 22:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*76.7 %*	*80-120*		*P4L1609*	*12/16/24 10:48*	*12/16/24 22:02*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*102 %*	*80-120*		*P4L1609*	*12/16/24 10:48*	*12/16/24 22:02*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/16/24 10:48	12/16/24 22:02	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/16/24 10:48	12/16/24 22:02	EPA 8021B	

Talon LPE		Project:	CS CAYLOR
2901 S. State Hwy 349		Project Number:	SRS#2002-10250
Midland TX, 79706		Project Manager:	David Adkins

MW-14A

4L13007-04 (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	P4L1609	12/16/24 10:48	12/16/24 22:25	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 22:25	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 22:25	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 22:25	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1609	12/16/24 10:48	12/16/24 22:25	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*77.5 %*	*80-120*		*P4L1609*	*12/16/24 10:48*	*12/16/24 22:25*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P4L1609*	*12/16/24 10:48*	*12/16/24 22:25*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/16/24 10:48	12/16/24 22:25	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/16/24 10:48	12/16/24 22:25	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-13A

4L13007-05 (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	P4L1712	12/17/24 13:49	12/17/24 17:11	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1712	12/17/24 13:49	12/17/24 17:11	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1712	12/17/24 13:49	12/17/24 17:11	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1712	12/17/24 13:49	12/17/24 17:11	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1712	12/17/24 13:49	12/17/24 17:11	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*80.1 %*	*80-120*		*P4L1712*	*12/17/24 13:49*	*12/17/24 17:11*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P4L1712*	*12/17/24 13:49*	*12/17/24 17:11*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/17/24 13:49	12/17/24 17:11	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/17/24 13:49	12/17/24 17:11	EPA 8021B	

Talon LPE		Project:	CS CAYLOR
2901 S. State Hwy 349		Project Number:	SRS#2002-10250
Midland TX, 79706		Project Manager:	David Adkins

MW-18A

4L13007-06 (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	P4L1712	12/17/24 13:49	12/17/24 17:33	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1712	12/17/24 13:49	12/17/24 17:33	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1712	12/17/24 13:49	12/17/24 17:33	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1712	12/17/24 13:49	12/17/24 17:33	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1712	12/17/24 13:49	12/17/24 17:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*79.1 %*	*80-120*		*P4L1712*	*12/17/24 13:49*	*12/17/24 17:33*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*97.2 %*	*80-120*		*P4L1712*	*12/17/24 13:49*	*12/17/24 17:33*	*EPA 8021B*	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/17/24 13:49	12/17/24 17:33	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/17/24 13:49	12/17/24 17:33	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
Midland TX, 79706	Project Manager:	David Adkins

MW-6A

4L13007-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	**0.0131**	0.00100	mg/L	1	P4L1712	12/17/24 13:49	12/17/24 17:55	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P4L1712	12/17/24 13:49	12/17/24 17:55	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P4L1712	12/17/24 13:49	12/17/24 17:55	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P4L1712	12/17/24 13:49	12/17/24 17:55	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P4L1712	12/17/24 13:49	12/17/24 17:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*76.0 %*	*80-120*		*P4L1712*	*12/17/24 13:49*	*12/17/24 17:55*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*103 %*	*80-120*		*P4L1712*	*12/17/24 13:49*	*12/17/24 17:55*	*EPA 8021B*	
Total BTEX	**0.0131**	0.00100	mg/L	1	[CALC]	12/17/24 13:49	12/17/24 17:55	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/17/24 13:49	12/17/24 17:55	EPA 8021B	

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4L1609 - * DEFAULT PREP *****										
Blank (P4L1609-BLK1)				Prepared & Analyzed: 12/16/24						
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	*0.0921*		*"*	*0.120*		*76.7*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.123*		*"*	*0.120*		*102*	*80-120*			
LCS (P4L1609-BS1)				Prepared & Analyzed: 12/16/24						
Benzene	0.0974	0.00100	mg/L	0.100		97.4	80-120			
Toluene	0.0927	0.00100	"	0.100		92.7	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.207	0.00200	"	0.200		104	80-120			
Xylene (o)	0.0929	0.00100	"	0.100		92.9	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0990*		*"*	*0.120*		*82.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.134*		*"*	*0.120*		*111*	*80-120*			
LCS Dup (P4L1609-BSD1)				Prepared & Analyzed: 12/16/24						
Benzene	0.0955	0.00100	mg/L	0.100		95.5	80-120	1.96	20	
Toluene	0.0933	0.00100	"	0.100		93.3	80-120	0.699	20	
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120	1.78	20	
Xylene (p/m)	0.211	0.00200	"	0.200		105	80-120	1.63	20	
Xylene (o)	0.0933	0.00100	"	0.100		93.3	80-120	0.462	20	
Surrogate: 4-Bromofluorobenzene	*0.100*		*"*	*0.120*		*83.3*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.132*		*"*	*0.120*		*110*	*80-120*			
Calibration Blank (P4L1609-CCB1)				Prepared & Analyzed: 12/16/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.200		"							
Xylene (p/m)	0.280		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.0960*		*"*	*0.120*		*80.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.120*		*101*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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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 P4L1609 - * DEFAULT PREP *****										
Calibration Blank (P4L1609-CCB2)				Prepared & Analyzed: 12/16/24						
Benzene	0.460		ug/l							
Toluene	0.340		"							
Ethylbenzene	0.260		"							
Xylene (p/m)	0.490		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.0957*		*"*	*0.120*		*79.8*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.121*		*"*	*0.120*		*101*	*80-120*			
Calibration Check (P4L1609-CCV1)				Prepared & Analyzed: 12/16/24						
Benzene	0.0944	0.00100	mg/L	0.100		94.4	80-120			
Toluene	0.0914	0.00100	"	0.100		91.4	80-120			
Ethylbenzene	0.0912	0.00100	"	0.100		91.2	80-120			
Xylene (p/m)	0.200	0.00200	"	0.200		100	80-120			
Xylene (o)	0.0918	0.00100	"	0.100		91.8	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0975*		*"*	*0.120*		*81.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.132*		*"*	*0.120*		*110*	*80-120*			
Calibration Check (P4L1609-CCV2)				Prepared & Analyzed: 12/16/24						
Benzene	0.0968	0.00100	mg/L	0.100		96.8	80-120			
Toluene	0.0912	0.00100	"	0.100		91.2	80-120			
Ethylbenzene	0.0893	0.00100	"	0.100		89.3	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		97.9	80-120			
Xylene (o)	0.0902	0.00100	"	0.100		90.2	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0959*		*"*	*0.120*		*79.9*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.132*		*"*	*0.120*		*110*	*80-120*			
Calibration Check (P4L1609-CCV3)				Prepared & Analyzed: 12/16/24						
Benzene	0.104	0.00100	mg/L	0.100		104	80-120			
Toluene	0.0995	0.00100	"	0.100		99.5	80-120			
Ethylbenzene	0.0994	0.00100	"	0.100		99.4	80-120			
Xylene (p/m)	0.218	0.00200	"	0.200		109	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0984*		*"*	*0.120*		*82.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.133*		*"*	*0.120*		*111*	*80-120*			

Talon LPE	Project:	CS CAYLOR
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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 P4L1609 - * DEFAULT PREP *****										
Matrix Spike (P4L1609-MS1)		**Source: 4L16004-01**		Prepared & Analyzed: 12/16/24						
Benzene	0.0949	0.00100	mg/L	0.100	0.00448	90.4	80-120			
Toluene	0.0888	0.00100	"	0.100	0.00604	82.7	80-120			
Ethylbenzene	0.0832	0.00100	"	0.100	ND	83.2	80-120			
Xylene (p/m)	0.170	0.00200	"	0.200	0.00235	84.0	80-120			
Xylene (o)	0.0770	0.00100	"	0.100	0.000690	76.3	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.0980*		*"*	*0.120*		*81.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.133*		*"*	*0.120*		*111*	*80-120*			
Matrix Spike Dup (P4L1609-MSD1)		**Source: 4L16004-01**		Prepared & Analyzed: 12/16/24						
Benzene	0.0991	0.00100	mg/L	0.100	0.00448	94.6	80-120	4.55	20	
Toluene	0.0942	0.00100	"	0.100	0.00604	88.2	80-120	6.44	20	
Ethylbenzene	0.0898	0.00100	"	0.100	ND	89.8	80-120	7.67	20	
Xylene (p/m)	0.182	0.00200	"	0.200	0.00235	89.9	80-120	6.78	20	
Xylene (o)	0.0822	0.00100	"	0.100	0.000690	81.5	80-120	6.53	20	
Surrogate: 4-Bromofluorobenzene	*0.0964*		*"*	*0.120*		*80.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.131*		*"*	*0.120*		*109*	*80-120*			
Batch P4L1712 - * DEFAULT PREP *****										
Blank (P4L1712-BLK1)				Prepared & Analyzed: 12/17/24						
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	*0.0963*		*"*	*0.120*		*80.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.121*		*"*	*0.120*		*101*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4L1712 - * DEFAULT PREP *****										
LCS (P4L1712-BS1)				Prepared & Analyzed: 12/17/24						
Benzene	0.103	0.00100	mg/L	0.100		103	80-120			
Toluene	0.0992	0.00100	"	0.100		99.2	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.220	0.00200	"	0.200		110	80-120			
Xylene (o)	0.0990	0.00100	"	0.100		99.0	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0980*		*"*	*0.120*		*81.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.131*		*"*	*0.120*		*109*	*80-120*			
LCS Dup (P4L1712-BSD1)				Prepared & Analyzed: 12/17/24						
Benzene	0.106	0.00100	mg/L	0.100		106	80-120	2.67	20	
Toluene	0.103	0.00100	"	0.100		103	80-120	3.81	20	
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120	3.97	20	
Xylene (p/m)	0.227	0.00200	"	0.200		113	80-120	3.07	20	
Xylene (o)	0.102	0.00100	"	0.100		102	80-120	3.02	20	
Surrogate: 4-Bromofluorobenzene	*0.0978*		*"*	*0.120*		*81.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.132*		*"*	*0.120*		*110*	*80-120*			
Calibration Blank (P4L1712-CCB1)				Prepared & Analyzed: 12/17/24						
Benzene	0.180		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.250		"							
Xylene (p/m)	0.320		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.0967*		*"*	*0.120*		*80.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*98.8*	*80-120*			
Calibration Blank (P4L1712-CCB2)				Prepared & Analyzed: 12/17/24						
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.200		"							
Xylene (p/m)	0.350		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.0978*		*"*	*0.120*		*81.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.120*		*101*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4L1712 - * DEFAULT PREP *****										
Calibration Check (P4L1712-CCV1)				Prepared & Analyzed: 12/17/24						
Benzene	0.101	0.00100	mg/L	0.100		101	80-120			
Toluene	0.0990	0.00100	"	0.100		99.0	80-120			
Ethylbenzene	0.0989	0.00100	"	0.100		98.9	80-120			
Xylene (p/m)	0.216	0.00200	"	0.200		108	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0950*		*"*	*0.120*		*79.2*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.130*		*"*	*0.120*		*108*	*80-120*			
Calibration Check (P4L1712-CCV2)				Prepared & Analyzed: 12/17/24						
Benzene	0.106	0.00100	mg/L	0.100		106	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.0992	0.00100	"	0.100		99.2	80-120			
Xylene (p/m)	0.218	0.00200	"	0.200		109	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0968*		*"*	*0.120*		*80.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.131*		*"*	*0.120*		*109*	*80-120*			
Calibration Check (P4L1712-CCV3)				Prepared: 12/17/24 Analyzed: 12/18/24						
Benzene	0.0983	0.00100	mg/L	0.100		98.3	80-120			
Toluene	0.0925	0.00100	"	0.100		92.5	80-120			
Ethylbenzene	0.0891	0.00100	"	0.100		89.1	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		98.2	80-120			
Xylene (o)	0.0906	0.00100	"	0.100		90.6	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0983*		*"*	*0.120*		*81.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.132*		*"*	*0.120*		*110*	*80-120*			
Matrix Spike (P4L1712-MS1)		**Source: 4L13007-05**		Prepared: 12/17/24 Analyzed: 12/18/24						
Benzene	0.0835	0.00100	mg/L	0.100	ND	83.5	80-120			
Toluene	0.0819	0.00100	"	0.100	ND	81.9	80-120			
Ethylbenzene	0.0911	0.00100	"	0.100	ND	91.1	80-120			
Xylene (p/m)	0.180	0.00200	"	0.200	ND	90.2	80-120			
Xylene (o)	0.0793	0.00100	"	0.100	ND	79.3	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.101*		*"*	*0.120*		*84.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.133*		*"*	*0.120*		*110*	*80-120*			

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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 P4L1712 - * DEFAULT PREP *****										
Matrix Spike Dup (P4L1712-MSD1)		**Source: 4L13007-05**		Prepared: 12/17/24 Analyzed: 12/18/24						
Benzene	0.0840	0.00100	mg/L	0.100	ND	84.0	80-120	0.549	20	
Toluene	0.0761	0.00100	"	0.100	ND	76.1	80-120	7.28	20	QM-05
Ethylbenzene	0.0820	0.00100	"	0.100	ND	82.0	80-120	10.5	20	
Xylene (p/m)	0.165	0.00200	"	0.200	ND	82.4	80-120	9.06	20	
Xylene (o)	0.0718	0.00100	"	0.100	ND	71.8	80-120	9.92	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.0967*		*"*	*0.120*		*80.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.131*		*"*	*0.120*		*109*	*80-120*			

Talon LPE		Project:	CS CAYLOR
2901 S. State Hwy 349		Project Number:	SRS#2002-10250
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
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: 12/20/2024

Brent Barron, Laboratory Director/Technical Director

Talon LPE	Project:	CS CAYLOR
2901 S. State Hwy 349	Project Number:	SRS#2002-10250
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: CS Caylor
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10250
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only)
ORDER #: 4L13007

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: TOTAL: TPH: TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
1	MW-17 A			12-12-24	1:46		3	3		3						GW			X		X
2	MW-16 A			12-12-24	1:24		3	3		3						GW			X		X
3	MW-15A			12-12-24	1:03		3	3		3						GW			X		X
4	MW-14A			12-12-24	12:42		3	3		3						GW			X		X
5	MW-13A			12-12-24	12:23		3	3		3						GW			X		X
6	MW-18A			12-12-24	11:47		3	3		3						GW			X		X
7	MW-6A			12-13-24	8:01		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	12-13-24	8:10	Matthew Beasley	12-13-24	8:10
Matthew Beasley	12/13/24	12:33			
			Received by PBEL: Mina Bhdhoa	12/13/24	8 TB 12:53

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: 2.3 °C Thermometer: NCF
Adjusted: °C Factor: 3

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

Page __ of __

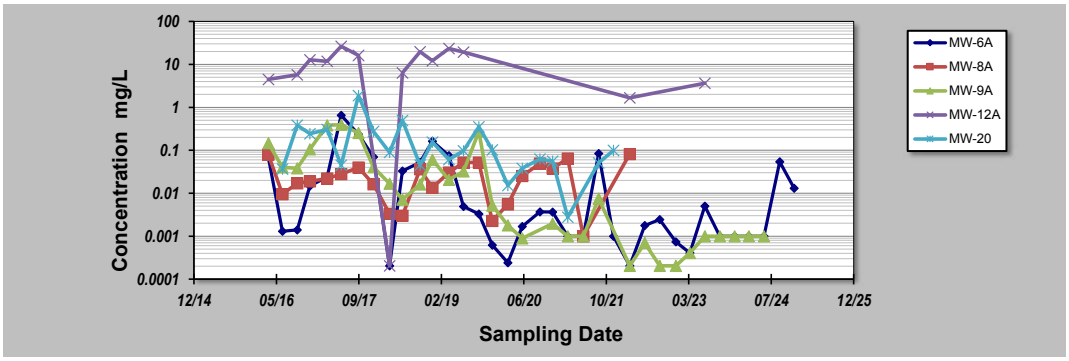
APPENDIX D

Mann-Kendall Analysis

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	3-Feb-25	Job ID:	700376.049
Facility Name:	CS Calyor	Constituent:	Ben ene
Conducted By:	Paul Santos	Concentration Units:	mg/L

Sampling Point ID:		MW-6A	MW-8A	MW-9A	MW-12A	MW-20		
Sampling Event	Sampling Date	BENZENE CONCENTRATION (mg/L)						
1	22-Mar-16	0.0693	0.0799	0.147	4.46			
2	16-Jun-16	0.0013	0.00950	0.0400		0.0364		
3	13-Sep-16	0.0014	0.0171	0.0382	5.7	0.382		
4	29-Nov-16	0.0148	0.0190	0.106	12.8	0.244		
5	14-Mar-17	0.0241	0.0220	0.381	11.8	0.306		
6	7-Jun-17	0.652	0.0281	0.394	26.4	0.0449		
7	19-Sep-17	0.235	0.0398	0.253	16.2	1.89		
8	19-Dec-17	0.0699	0.0162	0.0404	5..34	0.275		
9	27-Mar-18	0.000204	0.00332	0.0168	0.000204	0.0896		
10	13-Jun-18	0.0329	0.00300	0.0071	6.35	0.496		
11	28-Sep-18	0.0522	0.0363	0.016	19.7	0.0455		
12	12-Dec-18	0.163	0.0135	0.0607	12.2	0.155		
13	22-Mar-19	0.0748	0.0303	0.0205	23.5	0.0614		
14	18-Jun-19	0.0049	0.0519	0.0322	19.2	0.0968		
15	19-Sep-19	0.00329	0.0519	0.276		0.353		
16	10-Dec-19	0.00062	0.00226	0.00517		0.102		
17	13-Mar-20	0.00024	0.00550	0.0018		0.0153		
18	9-Jun-20	0.00169	0.0252	0.00089		0.0382		
19	24-Sep-20	0.00367	0.0495			0.0627		
20	10-Dec-20	0.00364	0.0378	0.00196		0.0556		
21	12-Mar-21	0.001	0.0643	0.00100		0.00277		
22	14-Jun-21	0.001	0.00100	0.00100				
23	15-Sep-21	0.08408	0.488 1	0.00747		0.0506		
24	14-Dec-21	0.001				0.0991		
25	22-Mar-22	0.000204	0.0817	0.000204	1.67			
26	21-Jun-22	0.00178		0.000694				
27	20-Sep-22	0.00243		0.000204				
28	27-Dec-22	0.00074		0.000204				
29	22-Mar-23	0.000408		0.000408				
30	21-Jun-23	0.005		0.001	3.63			
31	19-Sep-23	0.00100		0.00100				
32	18-Dec-23	0.00100		0.00100				
33	13-Mar-24	0.00100		0.00100				
34	13-Jun-24	0.00100		0.00100				
35	17-Sep-24	0.0538						
36	13-Dec-24	0.0131						
37								
38								
39								
40								
Coefficient of Variation:		2.64	0.80	1.90	0.72	1.78		
Mann-Kendall Statistic (S):		-158	34	-296	5	-65		
Confidence Factor:		98.4	80.6	99.9	58.5	96.5		
Concentration Trend:		Decreasing	No Trend	Decreasing	No Trend	Decreasing		



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend Confidence (in percent) that constituent concentration is increasing (S 0) or decreasing (S<0): 95% Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on MAROS: A Decision Support System for Optimizing Monitoring Plans , J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 497652

CONDITIONS

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID: 34053
	Action Number: 497652
	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 19, 2025. The report must include drilling activities and laboratory analysis of soil and groundwater samples. Soil samples will be sampled at a minimum pursuant to 19.15.29.11 NMAC.	9/18/2025
shanna.smith	Updated Stage 2 Abatement Plan should contain installation of additional monitoring wells as replacements for declining groundwater levels.	9/18/2025
shanna.smith	All groundwater samples will be analyzed according to all constituents in 20.6.2.3103 NMAC Pursuant to 19.15.30.9.B(2) NMAC. Operators may request to reduce sampling constituents based upon future results.	9/18/2025
shanna.smith	Plugging MW-20 was approved in 2021 for the 2020 AGWMR. Now in 2025, MW-20 is still not plugged.	9/18/2025