# REVIEWED

3.

By Nelson Velez at 9:18 am, Jul 20, 2022

Review of 2021 ANNUAL GROUNDWATER MONITORING REPORT: **Content satisfactory** 

Contractor recommendations approved and are as follows;

- 1. Continue quarterly groundwater monitoring events in accordance with NMOCD directives
- 2. Continue operation and maintenance of the groundwater recovery system
  - Submit annual report to NMOCD no later than March 31,2023.





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## 2021 ANNUAL GROUNDWATER MONITORING REPORT

C.S. CAYLOR LEA COUNTY, NEW MEXICO SRS #2002—10250 NMOCD REF. # AP-052, nAPP2109527803

PREPARED FOR: PLAINS MARKETING, L.P. 333 CLAY STREET, SUITE 1600 HOUSTON, TEXAS 77002

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**MARCH 7, 2022** 



# **2021 ANNUAL GROUNDWATER MONITORING REPORT**

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> PLAINS MARKETING, L.P. 333 CLAY STREET, SUITE 1600 HOUSTON, TEXAS 77002

TALON/LPE PROJECT NO. 700376.049.04

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MARCH 7, 2022



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NMOCD - New Mexico Oil Conservation Division

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### 1.0 INTRODUCTION AND OBJECTIVES

### 1.1 Objectives and Site Background

The C.S. Caylor Site (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 Marketing, L.P. (Plains) purchased the assets of Link Energy on April 1, 2004. Initial reports estimated that 70 barrels (bbls) of crude oil were released. 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. Based on available information, no crude oil was initially recovered at the release site.

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 (Talon) was retained by Plains to assume remediation activities at the site. Remediation activities at the site were previously conducted by Environmental Plus, Inc. (EPI).

#### 1.2 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.

## 1.3 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 2,420.72 bbls of crude oil have been recovered from the site as of December, 31, 2020. Approximately 83.01 bbls of crude were recovered in 2020 from the groundwater recovery system and MDPE events.

During 2021, the groundwater recovery system extracted approximately 36.10 bbls of PSH and 7,260 bbls of groundwater. MDPE recovery events were discontinued at this site. A cumulative total of 2,456.82 bbls of PSH have been recovered to date.

### 1.4 Regulatory Framework

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

(NMWQCC) Groundwater Standards									
Compound	mg/L								
Benzene	0.010								
Toluene	0.750								
Ethylbenzene	0.750								
Total Xylenes	0.620								
PAH (Naphthalene)	0.030								
PAH (Benzo[a]pyrene)	0.0007								

### 2.0 SITE ACTIVITIES

The sections that follow summarize groundwater monitoring and PSH recovery activities conducted at the subject site during the year 2021. The primary function of groundwater monitoring activities is to collect depth to fluid measurements and to collect groundwater samples from monitor wells 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 impacting the groundwater, and determining if modifications to the remediation system would improve its performance and efficiency.

A synopsis of analytical results for the four (4) groundwater monitoring events is located in Table 2 in Appendix B, and annotated in map form on Figures 3a through 3d in Appendix A. Laboratory analytical data reports and chain of custody documentation are included in Appendix C.

#### 2.1 Groundwater Monitoring Activities

Talon conducted four (4) groundwater monitoring events at the site during the year 2021. The events occurred on March 10 and 12, June 11 and 14, September 14, 15, 29 and 30, and December 13-14, 2021.

During the March 2021 groundwater monitoring event, all recovery/monitor wells were gauged. Thirteen (13) monitor wells (MW-6A, MW-8A through MW-11A, MW-13A-through MW-18A, MW-20, and MW-21) were purged and sampled. Seven (7) monitor wells (MW-2A through MW-5A, MW-7A, MW-12A, and MW-19) were not sampled due to the presence of PSH. MW-1A was dry, and therefore not sampled.

During the June 2021 groundwater monitoring event, all recovery/monitor wells were gauged with the exception of MW-4A, which could not be gauged due to a stuck pump. Twelve (12) monitor wells (MW-6A, MW-8A through MW-11A, MW-13A through MW-18A, and MW-21) were purged and sampled. Six (6) monitor wells (MW-2A, MW-3A, MW-5A, MW-7A, MW-12A, and MW-19) were not sampled due to the presence of PSH. MW-1A was dry, and therefore not sampled. MW-4A was obstructed, and therefore not sampled.

During the September 2021 groundwater monitoring event, all recovery/monitor wells were gauged. Thirteen (13) monitor wells (MW-6A, MW-8A, MW-9A, MW-10A, MW-11A, MW-13A, through MW-18A, MW-20 and MW-21) were purged and sampled. Seven (7) monitor wells (MW-2A through MW-5A, MW-7A, MW-12A, and MW-19) were not sampled due to the presence of PSH. MW-1A was dry, and therefore not sampled.

During the December 2021 groundwater monitoring event, all recovery/monitor wells were gauged. Eleven (11) monitor wells (MW-6A, MW-10A, MW-11A, MW-13A through MW-18A, MW-20, and MW-21) were purged and sampled. Four (4) monitor wells (MW-4A, MW-5A, MW-12A, and MW-19) were not sampled due to the presence of PSH. Four (4) monitor wells (MW-1A through MW-3A and MW-7A) were dry; therefore, these wells were

not purged or sampled. One (1) monitor well (MW-9A) was purged dry without recovery; therefore, the well was not sampled. One (1) monitor well (MW-8A) had insufficient water; therefore, the well was not purged or sampled. During this event, additional samples were collected from three (3) monitor wells (MW-6A, MW-10A and MW-11A) and analyzed for Monitored Natural Attenuation (MNA) parameters.

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, Appendix B – Summary of Historical Fluid Level Measurements.

Subsequent to gauging, all monitor wells that were not impacted with 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, and subsequently transferred to the Apollo saltwater disposal (SWD) system.

Groundwater samples were collected from all monitor wells not impacted with 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 personnel, until they were delivered to Xenco Laboratories, Inc. Laboratory in Carlsbad, New Mexico for testing. The groundwater samples collected during the all four (4) events were quantified for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method SW-846 8021B.

The monitor wells sampled for MNA parameters were sampled 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 until delivery to Eurofins Xenco Laboratories, Inc. in Carlsbad, New Mexico for analysis of nitrate, sulfate, ferrous iron, manganese, alkalinity, and methane.

#### 2.3 Phase Separated Hydrocarbon Recovery

PSH recovery methods have been employed at the site since 2002, initially 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 consists 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.

Currently there are four (4) total fluid pumps operating in monitoring wells MW-4A, MW-5A, MW-12A, and MW-19. The PSH and recovered groundwater is 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 transfer pump then drives the fluids to the Apollo SWD system for disposal.

During 2021, the quarterly PSH and groundwater recovery totals for the system are as follows:

- 1st Quarter 9.98 bbls crude oil and 1,074 bbls of groundwater
- 2<sup>nd</sup> Quarter 11.27 bbls crude oil and 866 bbls of groundwater
- 3<sup>rd</sup> Quarter 9.09 bbls crude oil and 2,397 bbls of groundwater
- 4<sup>th</sup> Quarter 5.76 bbls of crude oil and 2,923 bbls of groundwater

No mobile dual-phase extraction (MDPE) events, in which liquid and vapor PSH are recovered, were conducted on site in 2021.

A total of approximately 36.10 bbls of crude oil were recovered in 2021 and an estimated 2,456.82 bbls of PSH have been recovered at the subject site to date.

### 3.0 GROUNDWATER MONITORING RESULTS

The results of the laboratory analyses are summarized in Table 2 – Summary of Groundwater Analytical Data in Appendix B. Laboratory analytical data reports and chain of custody documentation are provided in Appendix C. The following sections summarize the results of the four (4) groundwater monitoring events at the site.

#### 3.1 Physical Characteristics of the First Water-Bearing Zone

The primary groundwater resource under the Southern High Plains, including the site, is referred to as the Ogallala Aquifer or the 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 (0) 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 (7) inches per day. The regional hydraulic conductivity averages 17 gallons per day per square-foot and specific yield averages 16%. The depth to groundwater at the site has historically ranged from 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<sub>3</sub>, 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

Depth to fluid measurements were collected during each of the four (4) groundwater monitoring events. The results of the fluid level measurements are summarized in Table 1, Appendix B - Summary of Historical Fluid Level Measurements.

The collected data was used to construct potentiometric surface maps in order to interpret the groundwater gradient and flow direction. The maps, designated Figures 2a through 2d, are presented in Appendix A.

The potentiometric surface maps constructed for each of the four (4) groundwater monitoring events indicate that the groundwater flow direction is to southeast at an average gradient of 0.0051 feet/foot. Groundwater elevations at the subject site have decreased an average of 1.32 feet for the year 2021.

#### 3.3 Phase Separated Hydrocarbon

An oil/water interface probe was used to determine the thickness of PSH during the four (4) groundwater monitoring events. The following summarizes the status of the PSH thicknesses observed during the four (4) groundwater monitoring events conducted in 2021.

- During the March 2021 event, PSH was observed in seven (7) monitor wells: MW-2A through MW-5A, MW-7A, MW-12A, and MW-19. PSH thickness ranged from 0.60 feet to 6.61 feet.
- During the June 2021 event, PSH was observed in six (6) monitor wells: MW-2A, MW-3A, MW-5A, MW-7A, MW-12A, and MW-19. PSH thickness ranged from 0.06 feet to 6.18 feet.
- During the September 2021 event, PSH was observed in seven (7) monitor wells: MW-2A through MW-5A, MW-7A, MW-12A, and MW-19. PSH thickness ranged from 0.01 feet to 11.02 feet.
- During the December 2021 event, PSH was observed in four (4) monitor wells: MW-4A, MW-5A, MW-12A, and MW-19. PSH thickness ranged from 0.01 feet to 6.66 feet.

#### 3.4 Groundwater Analytical Results

During the March 2021 event, groundwater samples were collected from thirteen (13) monitor wells: MW-6A, MW-8A through MW-11A, MW-13A through MW-18A, MW-20, and MW-21. Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from less than the laboratory method detection limit (MDL) in monitor wells MW-6A, MW-9A through MW-11A, MW-13A through MW-16A, MW-18A, and MW-21 to 0.0943 mg/L in MW-8A. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor well MW-8A.
- Toluene concentrations were less than the laboratory MDL for all monitor wells except MW-8A, which had a concentration of 0.0341 mg/L. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled during the quarter.
- Ethylbenzene concentrations were less than the laboratory MDL in all monitor wells

except MW-8A, which had a concentration of 0.00133 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled during the quarter.

• Xylene concentrations ranged from less than the laboratory MDL for all monitor wells except MW-8A, which had a concentration of 0.0603 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the monitor wells sampled during the quarter.

During the June 2021 event, groundwater samples were collected from twelve (12) monitor wells: MW-6A, MW-8A through MW-11A, MW-13A through MW-18A, and MW-21. Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from less than the laboratory MDL in monitor wells MW-6A, MW-8A, MW-9A, MW-11A, MW-13A through MW-16A, MW-18A, and MW-21 to 0.0136 mg/L in MW-10A. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor well MW-10A.
- Toluene concentrations ranged from less than the laboratory MDL in monitor wells MW-6A, MW-8A, MW-9A, MW-11A, and MW-13A through MW-17A to 0.000542 mg/L in MW-10A. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled during the quarter.
- Ethylbenzene concentrations were less than the laboratory MDL in all monitor wells, except MW-21, which had a concentration of 0.000906 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled during the quarter.
- Xylene concentrations ranged from less than the laboratory MDL in monitor wells MW-6A. MW-8A through MW-11A, and MW-13A through MW-17A to 0.00211 mg/L in MW-21. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the monitor wells sampled during the quarter.

During the September 2021 event, groundwater samples were collected from thirteen (13) monitor wells (MW-6A, MW-8A through MW-11A, MW-13A through MW-18A, MW-20, and MW-21) were purged and sampled. Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from less than the laboratory MDL in monitor wells MW-13A through MW-18A to 0.488 mg/L in MW-8A. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-8A and MW-20.
- Toluene concentrations ranged from less than the laboratory MDL in monitor wells MW-6A, MW-13A through MW-18A, MW-20, and MW-21 to 0.202 mg/L in MW-8A. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled during the quarter.
- Ethylbenzene concentrations ranged from less than the laboratory MDL in monitor

wells MW-6A, MW-9A, MW-10A, MW-13A through MW-18A, MW-20, and MW-21 to 0.00982 mg/L in MW-8A. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled during the quarter.

• Xylene concentrations ranged from less than the laboratory MDL in monitor wells MW-11A, MW-13A through MW-18A, MW-20, and MW-21 to 0.198 mg/L in MW-8A. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the monitor wells sampled during the quarter.

During the December 2021 event, groundwater samples were collected from eleven (11) monitor wells: MW-6A, MW-10A, MW-11A, MW-13A through MW-18A, MW-20, and MW-21. Laboratory analytical results of the groundwater samples indicate the following findings:

- Benzene concentrations were less than the laboratory MDL in all wells except MW-20, which had a concentration 0.0991 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor well MW-20.
- Toluene concentrations were less than the laboratory MDL in all wells except MW-20, which had a concentration of 0.00104 mg/L. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled during the quarter.
- Ethylbenzene concentrations were less than the laboratory MDL in monitor wells. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled during the quarter.
- Xylene concentrations were less than the laboratory MDL in all wells except MW-20, which had a concentration of 0.000979 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the monitor wells sampled during the quarter.
- Methane concentrations ranged between <5.00 ug/L in MW-6A and MW-11A to 0.796 ug/L in MW-10A.
- Ferrous Iron was reported at <0.0500 mg/L in all three samples.
- Manganese concentrations ranged from 0.00665 mg/L in MW-10A to 0.0168 mg/L in MW-11A.
- Alkalinity concentrations ranged from 243 mg/L in MW-11A to 375 mg/L in MW-10A
- Sulfate concentrations ranged from 52.2 mg/L in MW-10A to 89.5 mg/L in MW-11A.
- Nitrate as N concentrations ranged from 0.979 mg/L in MW-10A to 1.93 mg/L in MW-6A.

The laboratory analytical results are summarized in Tables 2, 3 and 4, Summary of Historical Groundwater Analytical Results in Appendix B. Laboratory analytical data reports and chains of custody documentation are provided in Appendix C.

### 4.0 CONCLUSIONS AND RECOMMENDATIONS

The following section presents a summary of the four (4) groundwater monitoring events conducted at the C. S. Caylor site and Section 4.2 provides recommendations for future corrective action.

## 4.1 Summary of Findings

- The groundwater flow direction is to the southeast at an average gradient of 0.0051 feet/foot.
- Generally, PSH thickness fluctuated to some degree in all impacted monitor wells. PSH thickness has decreased in MW-4A from 4.08' to 1.60', and in MW-12A from 2.43' to 0.01'.
- The PSH recovery system removed a cumulative total of 36.10 bbls of crude oil from the site during 2021.
- The benzene concentrations in MW-20 exceeded the NMWQCC groundwater standard of 0.0100 mg/L during the September and December sampling events. In addition, monitor well MW-8A exceeded the benzene NMWQCC groundwater standard of 0.0100 mg/L during the March and September events, and monitor MW-10A exceeded the benzene NMWQCC groundwater standard of 0.0100 mg/L during the June sampling event. It is noted that MW-8A and MW-20 are upgradient wells.
- NMOCD has approved the removal of MW-20 from all future sampling events. Further, MW-20 has been granted approval for the plug and abandonment as it is located in a former drilling pit.
- NMOCD approval was also granted to terminate PAH sampling activities from MW-9A, MW-15A, MW-16A and MW-18A.

#### 4.2 Recommendations

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

- Continue quarterly groundwater monitoring events in accordance with NMOCD directives.
- Continue operation and maintenance of the groundwater recovery system.

## **APPENDIX A**

# **Figures**

<b>Figure</b>	1	_	Site	Plan
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Figure 2a - Groundwater Gradient Map - 03/10/2021

Figure 2b - Groundwater Gradient Map – 06/11/2021

Figure 2c - Groundwater Gradient Map – 09/14-15, 29/2021

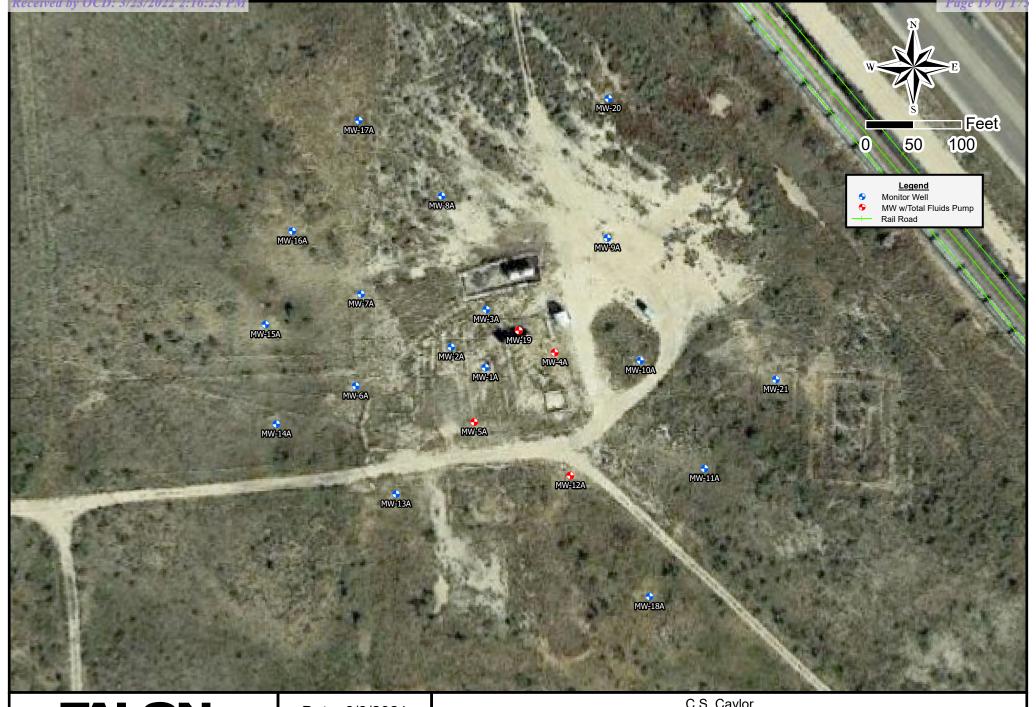
Figure 2d - Groundwater Gradient Map – 12/13/2021

Figure 3a - PSH Thickness & Groundwater Concentration Map – 03/10, 12/2021

Figure 3b - PSH Thickness & Groundwater Concentration Map – 6/11, 14/2021

Figure 3c - PSH Thickness & Groundwater Concentration Map – 9/15, 30/2021

Figure 3d - PSH Thickness & Groundwater Concentration Map – 12/13-14/2021





Date: 6/3/2021

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 Released to Imaging: 8/3/2022 7:37:10 AM

1 in = 100 ft

Drafted By: JAI

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 (03/10/2021)



TALON
LPE

Released to Imaging: 8/3/2022 7:37:10 AM

Date: 2/2/2022 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 2b - Groundwater Gradient Map (06/11/2021)



TALON Released to Imaging: 8/3/2022 7:37:10 AM

1 in = 100 ft

Drafted By: IJM

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 (09/14-15 & 9/29/2021)



Released to Imaging: 8/3/2022 7:37:10 AM

1 in = 100 ft

Drafted By: IJR

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 (12/13/2021)



TALON LPE Released to Imaging: 8/3/2022 7:37:10 AM

Date: 2/2/2022 1 in = 100 ft

Drafted By: JAI

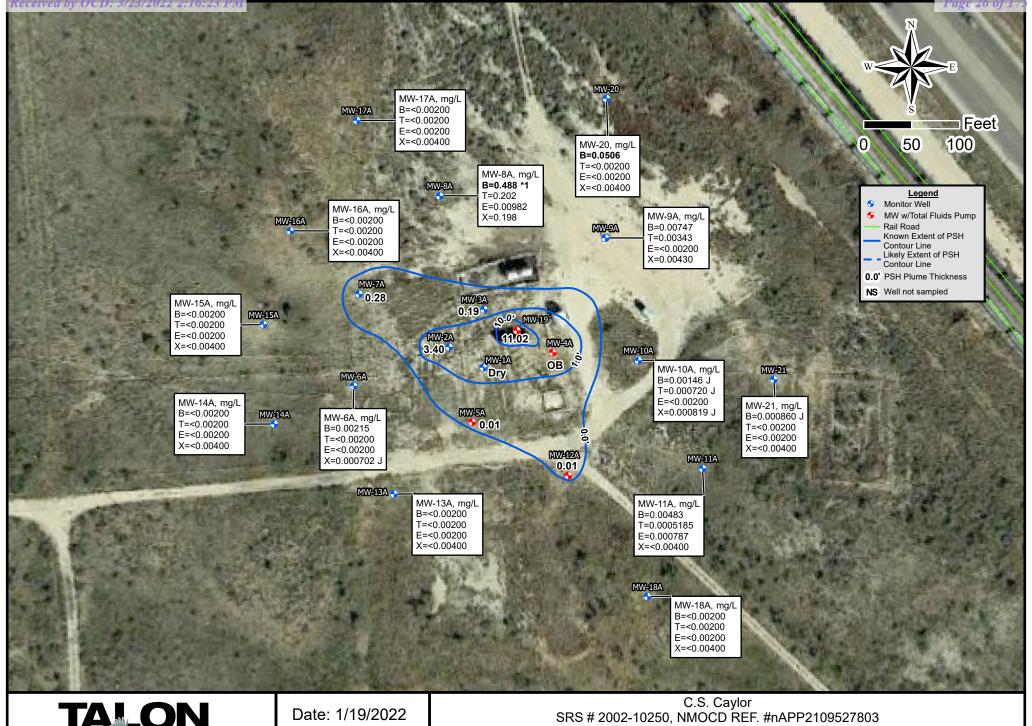
SRS # 2002-10250, NMOCD REF. #nAPP2109527803 NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico 32.867769, -103.28804 Figure 3a - PSH Thickness & Groundwater Concentration Map (03/10 & 12/2021)



TALON Released to Imaging 8/3/2022 7.37.10 AM

1 in = 100 ftDrafted By: IJR

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&14/2021)





1 in = 100 ft

Drafted By: IJR

NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico 32.867769, -103.28804

Figure 3c- PSH Thickness & Groundwater Concentration Map (09/15 & 30/2021)



TALON LPE

Date: 12/30/2021 1 in = 100 ft

Drafted By: IJR

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 & Groundwater Concentration Map (12/13-14/2021)

Released to Imaging 8/3/2022 7-37-10 AM

# **APPENDIX B**

# **Tables**

- Table 1 Summary of Historical Fluid Level Measurements
- Table 2 Summary of Historical Groundwater Analytical Results BTEX
- Table 3 Summary of Historical Groundwater Analytical Results PAH
- Table 4 Summary of Historical Groundwater Analytical Results MNA

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

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Sample Date	Depth to Water	Depth to Product	Product Thickness	Groundwat Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
MW-1A	3810.14	76.199997	96.199997	03/21/2016	95.96	91.70	4.26	3717.74
4"	3010.14	70.133337	30.133337	06/16/2016	92.78	92.08	0.7	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	1.6	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 09/25/2018	95.90 96.01	94.60 95.60	1.3 0.41	3715.33 3714.47
				12/12/2018	95.92	95.45	0.47	3714.47
				03/21/2019	95.91	95.31	0.6	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	-	-	-
1W-2 4"	3807.38	68.099998	88.099998	06/16/2016	PA	-	-	-
/W-2A	3810.14	79	109	03/21/2016	NL	-	-	-
4"				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 09/25/2018	102.20 100.80	94.48 95.35	7.72 5.45	3714.39 3713.89
				12/12/2018	100.80	95.30	5.5	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
	22121=		440	12/13/2021	DR	-	-	-
1W-3A	3810.47	83	113	03/21/2016	NL 02.05	- 02.20	0.47	2717.01
4"				06/16/2016 09/13/2016	93.85 95.07	93.38 94.18	0.47	3717.01 3716.14
				11/29/2016	94.20	54.10	0.89	3716.14
				03/13/2017	94.20	94.25	0.06	3716.21
				06/07/2017	94.90	94.56	0.00	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	0.6	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 12/10/2020	99.50 99.49	98.05 98.25	1.45 1.24	3712.18
				03/10/2020			1.24	3712.02 3712.16
				03/10/2021	99.35 99.52	98.11 98.62	0.9	3712.16
		1		09/15/2021	99.52	99.33	0.19	3711.70

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

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Sample Date	Depth to Water	Depth to Product	Product Thickness	Groundwate Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
MW-4A	3810.45	75	105	03/21/2016	97.85	92.30	5.55	3717.23
4"				06/16/2016	97.55	92.85	4.7	3716.82
				09/13/2016	98.57	93.66	4.91	3715.98
				11/29/2016 03/13/2017	98.35 98.60	93.45 93.50	4.9 5.1	3716.19 3716.11
				06/07/2017	99.10	93.80	5.3	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	5.2	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	101.31 101.25	97.23 96.75	4.08 4.5	3712.55
				12/08/2019 03/11/2020	99.65	96.73	3.07	3712.96 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	1.6	3710.29
MW-5	3809.29	73.400002	93.400002	03/21/2016	93.05	90.85	2.2	3718.08
4" MW-5A	2000.2	75	400	06/16/2016	PA 02.50	- 02.50	- 0.00	3716.79
4"	3809.3	75	109	06/16/2016 09/13/2016	92.58 98.33	92.50 92.32	0.08 6.01	3715.79
4				11/29/2016	96.89	92.36	4.53	3716.19
				03/13/2017	97.96	92.23	5.73	3716.13
				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	5.5	3715.09
				03/23/2018	99.02	93.26	5.76	3715.09
				06/13/2018	100.25	93.95	6.3	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 05/01/2020	99.35 101.40	95.25 95.85	4.10 5.55	3713.37 3712.53
				06/08/2020	101.40	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
ИW-6A	3809.04	83	114	03/21/2016	92.61	-	-	3716.43
4"				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 09/18/2017	94.12 94.99	-	-	3714.92 3714.05
				12/13/2017	94.87	-	-	3714.03
				03/23/2018	94.85	<del></del>		3714.17
				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
		1		12/09/2020	98.85 98.80	-	-	3710.19 3710.24
						-		· 3/10/24
				03/10/2021		_	_	
				03/10/2021 06/11/2021 09/14/2021	99.31 99.94	-	-	3709.73 3709.10

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

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Sample Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
MW-7A	3810.63	71	101	03/21/2016	96.71	92.60	4.11	3717.35
4"				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 03/13/2017	94.35 96.40	94.27 93.90	0.08 2.5	3716.35 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 09/18/2019	96.90 99.70	96.89 97.12	0.01 2.58	3713.74 3713.08
				12/08/2019	99.78	96.90	2.88	3713.06
				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	0.6	3712.08
				06/11/2021	99.82	98.97	0.85	3710.81
				09/15/2021	99.86	99.58	0.28	3711.00
MW-8A	3810.73	73	103	12/13/2021 03/21/2016	DR 93.26	-	-	3717.47
1VIVV-6A 4"	3610.73	13	103	06/16/2016	93.55	-	-	3717.47
4				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 12/12/2018	97.05 96.91	-	-	3713.68 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 99.82	-	-	3711.40 3710.91
				09/14/2021	100.38	-	-	3710.91
				12/13/2021	100.75	-	-	3709.98
MW-9A	3810.73	77	107	03/21/2016	93.63	-	-	3717.10
2"				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 03/23/2018	95.77 95.77	-	-	3714.96 3714.96
				06/13/2018	96.48	-	-	3714.35
				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
	1			05/01/2020	98.15	-	-	3712.58
			1	06/05/2020	98.53	-	-	3712.20
				00/22/2022	רים			
				09/23/2020	DR 99.84	-	-	- 3710 90
				12/09/2020	99.84	-	-	3710.89 3711.00
				12/09/2020 03/10/2021	99.84 99.73			3711.00
				12/09/2020	99.84	-	-	

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

Sample ID MW-10A 2"	(fmsl) 3810.41	Screen (ft) 84	Screen (ft) 114	O3/21/2016 06/16/2016 09/13/2016	Water (ft) 93.24 93.68 94.55	Product (ft)	Thickness (ft)	Elevation (fmsl) 3717.17 3716.73 3715.86
				03/21/2016 06/16/2016 09/13/2016	93.24 93.68	-	-	3717.17 3716.73
	0010.41	01		06/16/2016 09/13/2016	93.68	-		3716.73
					94.55	-		3715.86
							-	
				11/29/2016	94.26	-	-	3716.15
		l		03/13/2017	94.00 94.72	-	-	3716.41
				06/07/2017 09/18/2017	95.64	-	-	3715.69 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 03/21/2019	96.93 96.59	-	-	3713.48 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 09/23/2020	98.22 99.25	-	-	3712.19 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
MA/ 44 A	2000.00	0.0	440	12/13/2021	100.90	-	-	3709.51
MW-11A 2"	3808.99	83	113	03/21/2016 06/16/2016	91.93 92.45	-	-	3717.06 3716.54
2				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 03/23/2018	94.12 94.21	-	-	3714.87 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 96.27	-	-	3711.94 3712.72
				12/08/2019 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 06/11/2021	98.13 98.62	-	-	3710.86 3710.37
				09/14/2021	99.46	-	-	3710.37
				12/13/2021	99.72	-	-	3709.27
MW-12 2"	3809.81	70.800003	90.800003	06/16/2016	PA	-	-	-
MW-12A	3808.98	79	109	03/21/2016	91.90	-	-	3717.08
4"				06/16/2016	92.02	-	-	3716.96
				09/13/2016	93.25	-	-	3715.73
				11/29/2016 03/13/2017	92.98 92.70	-	-	3716.00 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 03/21/2019	95.61 95.25	-	-	3713.37 3713.73
				06/13/2019	95.25	-	-	3713.73
				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
				06/05/0000	07.00	00.75	4 0 5	2740 00
				06/05/2020	97.80	96.75	1.05	3712.06
				09/23/2020	99.40	97.80	1.60	3710.92
				09/23/2020 12/09/2020	99.40 99.90	97.80 97.91	1.60 1.99	3710.92 3710.74

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

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Sample Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
MW-13A	3809.49	78	108	03/21/2016	92.28	-	-	3717.21
4"				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 93.76	-	-	3716.42 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 97.26	-	-	3713.22
				09/18/2019 12/08/2019	96.68			3712.23 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
N N N / / / A	2000.00	0.4	444	12/13/2021	99.95	-	-	3709.54
MW-14A 2"	3809.93	84	114	03/21/2016 06/16/2016	92.51 92.97	-	-	3717.42 3716.96
2"				09/13/2016	93.78	-	-	3716.96
				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 96.44	-	-	3713.95 3713.49
				06/13/2019 09/18/2019	97.42	-		3713.49
				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 12/13/2021	99.83 100.20	-	-	3710.10 3709.73
MW-15	3810.93	72.199997	92.199997	03/21/2016	DR	-		-
2"	0010.00	72.100007	02.100007	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 12/13/2017	95.48	-	-	3715.28 3715.32
				03/23/2017	95.44 95.41	-	-	3715.32
				06/13/2018	96.10	_	_	3713.33
				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 12/09/2020	99.12 99.37	-	-	3711.64
				03/10/2021	99.37	-	-	3711.39 3711.37
				06/11/2021	99.87	-	-	3711.37
		I						
				09/14/2021	100.44	-	-	3710.32

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

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Sample Date	Depth to Water	Depth to Product	Product Thickness	Groundwate Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
MW-16 2"	3812.23	71.199997	91.199997	03/21/2016 06/16/2016	DR 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 06/07/2017	94.93 95.54	-	-	3716.79 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 12/12/2018	97.88 97.80	-	-	3713.84 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 05/01/2020	98.60 98.83	-	-	3713.12 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 09/14/2021	100.70 101.25	-	-	3711.02 3710.47
				12/13/2021	101.62	-	-	3710.47
MW-17	3810.57	71	92.699997	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 03/13/2017	94.32 93.76	-	-	3716.31 3716.87
				06/07/2017	93.33		-	3717.30
				09/18/2017	95.08	-	-	3717.55
				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 03/21/2019	96.66 96.39	-	-	3713.97 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 09/23/2020	97.75 98.60	-	-	3712.88 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
	0000 40	0.4	444	12/13/2021	100.41	-	-	3710.22
MW-18A 2"	3809.46	84	114	03/21/2016 06/16/2016	92.56 93.08	-	-	3716.90 3716.38
2				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 03/23/2018	94.70 94.81	-	-	3714.76 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 12/08/2019	97.72 96.86	-	-	3711.74 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
		1	03/10/2021	98.75	-	-	3710.71	
								2740.00
				06/11/2021 09/14/2021	99.23	-	-	3710.23 3709.32

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

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Sample Date	Depth to Water	Depth to Product	Product Thickness	Groundwate Elevation
MW-19	(fmsl) 3811.05	(ft) 75	(ft) 120	(ft) 06/16/2016	(ft) 94.18	(ft)	(ft)	(fmsl) 3716.87
4"	3011.03	73	120	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 03/23/2018	99.30 98.08	95.24 95.49	4.06 2.59	3715.14 3715.13
				06/13/2018	100.97	95.49	5.01	3713.13
				09/25/2018	100.01	97.31	2.7	3713.29
				12/12/2018	98.90	97.30	1.6	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 06/08/2020	102.53 101.70	97.45 98.05	5.08 3.65	3712.76 3712.40
				09/23/2020	101.70	98.75	6.00	3712.40
				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
ЛW-20	3810	75	114	07/12/2016	92.95	-	-	3717.05
2"				09/13/2016	93.57	-	-	3716.43
				11/29/2016	93.54	-	-	3716.46 3716.73
				03/13/2017 06/07/2017	93.27 93.89	-	-	3716.73
				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 03/11/2020	96.78 96.31	-	-	3713.22 3713.69
				05/01/2020	96.92	-	-	3713.09
				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
	000000		400	12/13/2021	100.00	-	-	3710.00
/W-21	3809.06	75	109	07/12/2016	92.65	-	-	3716.41
2"				09/13/2016 11/29/2016	93.25 93.00	-	-	3715.81 3716.06
				03/13/2017	92.68	-	-	3716.06
				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 09/18/2019	95.91 96.97			3713.15 3712.09
				12/08/2019	96.23	-	-	3712.09
				03/11/2020	95.66	-	-	3712.63
				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
	1		1	06/11/2021	98.61	l -	_	3710.45
				09/14/2021	99.36	-	-	3709.70

Specific Gravity = 0.835

Notes:

DR = Well dry

DS = Well destroyed

NG = Well not gauged

NL = Well not located

NSA = No access

OB = Obstruction in well

PA = Well plugged and abandoned

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

Sample ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
	•	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	roundwater	0.01	0.75	0.75	0.62	
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 11/29/2016	0.00140 <b>0.0148</b>	<0.000621 <0.00100	<0.000763 <0.000657	<0.000256 <0.000642	-
	03/14/2017	0.0148	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 12/10/2019	0.00329	<0.002	<0.002 <0.000657	<0.002 <0.000630	0.00329 0.000620
	03/13/2020	0.000620 <0.000480	<0.000367 <0.000512	<0.000657	<0.000830	<0.00020
	06/09/2020	0.00169 J	<0.000312	<0.000657	<0.000270	0.000270 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
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 11/29/2016	0.0171 0.0190	0.00250	<0.000763	0.00140 <0.000642	-
	03/14/2017	0.0190	0.00464 0.00785	<0.000657 0.00221	0.000642	0.0367
	06/07/2017	0.0220	0.00703	0.00221 0.00165 J	0.00465	0.0307
	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 12/10/2019	0.0519 0.00226	0.00919 0.000380	<0.002 <0.000657	0.00491 <0.000630	0.0660 0.00264
	03/12/2020	0.00226	<0.000512	<0.000657	0.000900 J	0.00264
	06/08/2020	0.0252	0.00782	<0.000657	0.00550	0.00040
	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
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 11/29/2016	0.0382 0.106	<0.00329 0.00332	<0.00404 0.00406	<0.00136 0.00244	-
	03/14/2017	0.381	<0.00032	0.0186	0.00244	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 06/18/2019	0.0205 0.0322	<0.0005 <0.000512	<0.0005 0.00200	<0.0005 <0.00027	0.0205 0.0342
	06/18/2019	0.0322	<0.00512	0.00200	<0.0027	0.0342
	12/10/2019	0.00517	0.000540	<0.00649	<0.002	0.00571
	03/12/2020	0.00317	<0.000512	<0.000616	<0.00030	0.00371
	06/08/2020	0.000890 J	< 0.000367	<0.000657	<0.000270	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
			0.0000	40 00000	<0.00400	-0.00400
	06/14/2021 09/15/2021	<0.00200 0.00747	<0.00200 0.00343	<0.00200 <0.00200	<0.00400 0.00430	<0.00400 0.0152

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

Sample ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
	Gampioa	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	roundwater	0.01	0.75	0.75	0.62	
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	ı
	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
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	ï
	09/13/2016	<0.000504	<0.000621	<0.000763	<0.000256	ï
	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 06/09/2020	<0.000480 <0.000408	<0.000512 <0.000367	<0.000616 <0.000657	<0.000270 <0.000630	<0.000270 <0.000367
	09/24/2020	0.00400	<0.000367	<0.000657	<0.000630	0.00400
	12/10/2020	0.00400 0.00154 J	0.00107 J	0.000950 J	0.000880 J	0.004440
	03/12/2021	<0.00134 3	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
MW-12A	03/22/2016	4.46	0.0159 J	0.195	0.233	-0.00400
120	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
l	06/17/2019	19.2	0.115	0.815	0.715	20.8

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

		_				
Sample ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
NMOCD - G	Froundwater	0.01	0.75	0.75	0.62	
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
MW-14A	03/22/2016	<0.00023	<0.000238	<0.00238	<0.000243	-0.00100
	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	<0.000507	<0.000616	<0.000270	<0.000307
	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	0.00247
	03/12/2021	<0.00200	<0.00200	<0.002000	<0.00400	<0.002000
	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
	12/17/2021	10.00200	10.00200	10.00200	10.00700	10.00700

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

Sample ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
NMOCD - G	Proundwater	0.01	0.75	0.75	0.62	
MW-15A	07/12/2016	<0.000504	<0.000621	< 0.000763	<0.000256	ı
	09/13/2016	0.00130	<0.000621	< 0.000763	<0.000256	-
	11/29/2016	<0.000408	<0.00100	< 0.000657	<0.000642	ı
	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
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

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

	I					
Sample ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
	'	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
NMOCD - G	roundwater	0.01	0.75	0.75	0.62	(g, =)
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
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

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

Sample ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
NMOCD - G	roundwater	0.01	0.75	0.75	0.62	
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 06/17/2019	<0.0005 <0.00048	<0.0005 <0.000512	<0.0005 <0.000616	<0.0005 <0.00027	<0.0005 <0.00027
	09/19/2019	<0.0048	<0.000512	<0.000	<0.0027	<0.0027
	12/11/2019	0.000890	0.000500	<0.002	<0.002	0.00139
1	03/13/2020	<0.000480	<0.000512	<0.000657	<0.000830	<0.00139
	06/09/2020	<0.000480	<0.000312	<0.000616	<0.000270	<0.000270
	09/24/2020	0.00347	<0.000367	<0.000657	<0.000630	0.000307
	12/10/2020	0.00347 0.00112 J	0.000710 J	<0.000057	<0.00200	0.00347 0.001830 J
	03/12/2021	<0.001123	<0.00200	<0.002000	<0.00200	<0.00200
1	06/14/2021	<0.00200	0.00200 0.000371 J	0.000200 0.000906 J	0.00400 0.00211 J	0.00339 J
	09/15/2021	0.000860 J	<0.00200	<0.00200	<0.00400	0.00339 J
1	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400

Notes:

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

Analyte concentration exceeds the standard for:

NMOCD - Groundwater

Received by OCD: 3/23/2022 2:16:23 PM

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

Sample ID	Date Sampled	Acenaphthene (mg/l)	Acenaphthylene gg	Anthracene gg/)	Benzo(a)anthracene	Benzo(a)pyrene egyl)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene ∈	Benzo(k)fluoranthene	Chrysene (Eg/I)	Dibenz(a,h)anthracene	Dibenzofuran (m.g/l)	Fluoranthene eg/l)	Fluorene (mg/l)	Indeno (1,2,3-c,d) pyreni 🗒	Naphthalene (mg/l)	Phenanthrene (mg/l)	Pyrene (mg/l)
NMOCD - G	iroundwater					0.007										0.03		
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
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	<0.000076	< 0.0000063	< 0.0000095	< 0.0000091	<0.0000080	<0.0000078	<0.000088	< 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-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
MW-15A	07/12/2016	< 0.0000350	< 0.0000612	<0.0000338	< 0.0000759	<0.0000440	<0.0000748	<0.0000546	<0.0000591	< 0.0000854		< 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		<0.0000721	<0.0000418	< 0.0000710	<0.0000519	< 0.0000561		<0.0000562	< 0.0000607	<0.0000638	<0.0000788	< 0.0000537		<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
					<0.0000063							< 0.0000053			<0.0000049	0.000276		
				<0.0000854		< 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					<0.0000717												<0.0000513	
	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
				<0.000075		<0.0000095						< 0.0000052			< 0.0000049	0.0000284	<0.0000055	
MW-18A		< 0.0000332				<0.0000418							<0.0000638		<0.0000537	<0.0000656		
	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
			<0.0000074			<0.0000096		<0.0000080		<0.000089		< 0.0000054		<0.0000055	<0.000005	0.000308	0.0000268	<0.0000093
	03/13/2020		<0.0000869			<0.0000589	< 0.0000734	<0.000117	<0.000120	<0.000161	<0.0000785	-	<0.000162	<0.000104	<0.0000943		<0.0000878	
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				<0.0000055		<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
Notes:	01/12/2010	~0.000931	~U.UUU9Z1	~0.000#11	~U.UUU051	<u>~0.00115</u>	<u>~0.00125</u>	0.00134 J	~U.UUU113	<u>~0.000632</u>	~0.00106	~U.UUU0ZZ	~U.UUU152	~U.UUU001	~0.00111	~U.UUU051	~0.000970	<u> ~0.000940</u>

Notes:

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

Analyte concentration exceeds the standard for:

NMOCD - Groundwater

Received by OCD: 3/23/2022 2:16:23 PM

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

Sample ID	Date Sampled	Methane	Ferrous Iron	Manganese	Phenolphthalein Alkalinity	Bicarbonate Alkalinity	Hydroxide Alkalinity	Carbonate Alkalinity	Alkalinity	Sulfate	Nitrate as N
		(ug/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(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
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
MW-11A	12/14/2021	<5.00	<0.0500 HF	0.0168	<4.00	243	<4.00	<4.00	243	89.5	1.63
MW-20	7/12/2016	1	-	0.312	-	159	<20.0	<20.0	159	55.5	1.55
MW-21	7/12/2016	-	-	0.039	-	206	<20.0	<20.0	206	109	2.39

#### Notes:

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

# **APPENDIX C**

**Laboratory Analytical Data Reports and Chain of Custody Documentation** 



# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-344-1

Laboratory Sample Delivery Group: 700376.049.04

Client Project/Site: CS Caylor

For:

Talon/LPE 408 W. Texas St. Artesia, New Mexico 88210

Attn: David Adkins

MAMER

Authorized for release by: 3/19/2021 6:25:30 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS .....

Review your project results through

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Released to Imaging: 8/3/2022 7:37:10 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Talon/LPE Laboratory Job ID: 890-344-1
Project/Site: CS Caylor SDG: 700376.049.04

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# **Definitions/Glossary**

Client: Talon/LPE Job ID: 890-344-1
Project/Site: CS Caylor SDG: 700376.049.04

#### **Qualifiers**

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G	•	V١	U	А

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
a	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Oil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
.OD	Limit of Detection (DoD/DOE)
.OQ	Limit of Quantitation (DoD/DOE)
<b>I</b> CL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
1DC	Minimum Detectable Concentration (Radiochemistry)
ИDL	Method Detection Limit
ΛL	Minimum Level (Dioxin)
//PN	Most Probable Number
ЛQL	Method Quantitation Limit
IC	Not Calculated
ID	Not Detected at the reporting limit (or MDL or EDL if shown)
IEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

#### **Case Narrative**

Client: Talon/LPE Job ID: 890-344-1 Project/Site: CS Caylor SDG: 700376.049.04

Job ID: 890-344-1

**Laboratory: Eurofins Xenco, Carlsbad** 

**Narrative** 

Job Narrative 890-344-1

#### Receipt

The samples were received on 3/12/2021 3:41 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

#### **Receipt Exceptions**

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: MW-18A (890-344-1), MW-13A (890-344-2), MW-14A (890-344-3), MW-15A (890-344-4), MW-16A (890-344-5), MW-20 (890-344-6), MW-10A (890-344-7), MW-11A (890-344-8), MW-17A (890-344-9), MW-8A (890-344-10), MW-21 (890-344-11), MW-6A (890-344-12) and MW-9A (890-344-13).

#### **GC VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Xenco, Carlsbad 3/19/2021

Client: Talon/LPE

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Job ID: 890-344-1

Project/Site: CS Caylor SDG: 700376.049.04

Lab Sample ID: 890-344-1

03/19/21 10:58

Date Collected: 03/12/21 09:00 Date Received: 03/12/21 15:41

Client Sample ID: MW-18A

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L		<del>-</del>	03/19/21 10:58	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 10:58	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 10:58	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/19/21 10:58	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 10:58	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 10:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 10:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130			=		03/19/21 10:58	

Client Sample ID: MW-13A Lab Sample ID: 890-344-2

70 - 130

Date Collected: 03/12/21 11:00 **Matrix: Water** 

Date Received: 03/12/21 15:41

Date Received: 03/12/21 15:41

4-Bromofluorobenzene (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/19/21 11:19	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 11:19	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 11:19	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/19/21 11:19	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 11:19	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 11:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 11:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130			-		03/19/21 11:19	1
4-Bromofluorobenzene (Surr)	109		70 - 130					03/19/21 11:19	1

Client Sample ID: MW-14A Lab Sample ID: 890-344-3 Date Collected: 03/12/21 11:40 **Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/19/21 11:39	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 11:39	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 11:39	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/19/21 11:39	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 11:39	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 11:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 11:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130			-		03/19/21 11:39	1
4-Bromofluorobenzene (Surr)	104		70 - 130					03/19/21 11:39	1

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Client: Talon/LPE Job ID: 890-344-1 Project/Site: CS Caylor SDG: 700376.049.04

Client Sample ID: MW-15A

Lab Sample ID: 890-344-4 Date Collected: 03/12/21 12:50

**Matrix: Water** Date Received: 03/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Benzene <0.00200 0.00200 0.000408 mg/L 03/19/21 12:00 Ethylbenzene <0.00200 U 0.00200 0.000657 mg/L 03/19/21 12:00 Toluene <0.00200 U 0.00200 0.000367 mg/L 03/19/21 12:00 Total BTEX 0.00200 03/19/21 12:00 <0.00200 U 0.00100 mg/L Xylenes, Total 0.00400 03/19/21 12:00 <0.00400 U 0.00100 mg/L o-Xylene <0.00200 U 0.00200 0.000642 mg/L 03/19/21 12:00 m-Xylene & p-Xylene <0.00400 U 0.00400 0.000629 mg/L 03/19/21 12:00 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,4-Difluorobenzene (Surr) 100 70 - 130 03/19/21 12:00 4-Bromofluorobenzene (Surr) 107 70 - 130 03/19/21 12:00

Client Sample ID: MW-16A Lab Sample ID: 890-344-5

Date Collected: 03/12/21 13:30 **Matrix: Water** 

Date Received: 03/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <0.00200 U 0.00200 03/19/21 12:20 Benzene 0.000408 mg/L Ethylbenzene <0.00200 U 0.00200 0.000657 03/19/21 12:20 mg/L Toluene <0.00200 U 0.00200 0.000367 mg/L 03/19/21 12:20 Total BTEX 0.00100 mg/L 03/19/21 12:20 <0.00200 U 0.00200 Xylenes, Total <0.00400 U 0.00400 0.00100 mg/L 03/19/21 12:20 0.000642 mg/L o-Xylene <0.00200 U 0.00200 03/19/21 12:20 m-Xylene & p-Xylene <0.00400 U 0.00400 0.000629 mg/L 03/19/21 12:20 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,4-Difluorobenzene (Surr) 70 - 130 03/19/21 12:20 102

Client Sample ID: MW-20 Lab Sample ID: 890-344-6 Date Collected: 03/12/21 11:30 **Matrix: Water** 

70 - 130

110

Date Received: 03/12/21 15:41

4-Bromofluorobenzene (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00277		0.00200	0.000408	mg/L			03/19/21 12:40	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 12:40	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 12:40	1
Total BTEX	0.00277		0.00200	0.00100	mg/L			03/19/21 12:40	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 12:40	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 12:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 12:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130			-		03/19/21 12:40	1
4-Bromofluorobenzene (Surr)	104		70 - 130					03/19/21 12:40	1

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03/19/21 12:20

Job ID: 890-344-1

Client: Talon/LPE Project/Site: CS Caylor SDG: 700376.049.04

Client Sample ID: MW-10A

Date Collected: 03/12/21 08:00 Date Received: 03/12/21 15:41

Lab Sample ID: 890-344-7

**Matrix: Water** 

Method: 8021B - Volatile Orga	nic Compounds (	GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/19/21 13:01	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 13:01	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 13:01	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/19/21 13:01	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 13:01	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 13:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 13:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 _ 130			-		03/19/21 13:01	1
4-Bromofluorobenzene (Surr)	109		70 - 130					03/19/21 13:01	1

Client Sample ID: MW-11A Lab Sample ID: 890-344-8

Date Collected: 03/12/21 09:00

Date Received: 03/12/21 15:41

**Matrix: Water** 

Method: 8021B - Volatile Organic Compounds (GC) Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Benzene <0.00200 U 0.00200 0.000408 03/19/21 13:21 mg/L Ethylbenzene <0.00200 U 0.00200 0.000657 mg/L 03/19/21 13:21 Toluene <0.00200 U 0.000367 mg/L 03/19/21 13:21 0.00200 Total BTEX <0.00200 U 0.00100 mg/L 03/19/21 13:21 0.00200 Xylenes, Total <0.00400 U 0.00400 0.00100 mg/L 03/19/21 13:21 o-Xylene <0.00200 U 0.00200 0.000642 mg/L 03/19/21 13:21 m-Xylene & p-Xylene <0.00400 U 0.00400 0.000629 mg/L 03/19/21 13:21

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,4-Difluorobenzene (Surr) 70 - 130 03/19/21 13:21 100 4-Bromofluorobenzene (Surr) 112 70 - 130 03/19/21 13:21

Client Sample ID: MW-17A

Date Collected: 03/12/21 12:13

Date Received: 03/12/21 15:41

Lab Sample ID: 890-344-9 **Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00119	J	0.00200	0.000408	mg/L			03/19/21 13:42	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 13:42	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 13:42	1
Total BTEX	0.00119	J	0.00200	0.00100	mg/L			03/19/21 13:42	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 13:42	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 13:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 13:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)			70 - 130			-		03/19/21 13:42	1
4-Bromofluorobenzene (Surr)	107		70 - 130					03/19/21 13:42	1

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Job ID: 890-344-1

Client: Talon/LPE Project/Site: CS Caylor SDG: 700376.049.04

Client Sample ID: MW-8A Lab Sample ID: 890-344-10 Date Collected: 03/12/21 13:30 Matrix: Water Date Received: 03/12/21 15:41

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0943		0.00200	0.000408	mg/L			03/19/21 14:02	1
Ethylbenzene	0.00133	J	0.00200	0.000657	mg/L			03/19/21 14:02	1
Toluene	0.0341		0.00200	0.000367	mg/L			03/19/21 14:02	1
Total BTEX	0.190		0.00200	0.00100	mg/L			03/19/21 14:02	1
Xylenes, Total	0.0603		0.00400	0.00100	mg/L			03/19/21 14:02	1
o-Xylene	0.0178		0.00200	0.000642	mg/L			03/19/21 14:02	1
m-Xylene & p-Xylene	0.0425		0.00400	0.000629	mg/L			03/19/21 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	80		70 - 130			-		03/19/21 14:02	1
4-Bromofluorobenzene (Surr)	79		70 - 130					03/19/21 14:02	1

Client Sample ID: MW-21 Lab Sample ID: 890-344-11

Date Collected: 03/12/21 10:30 **Matrix: Water** 

Date Received: 03/12/21 15:41

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/19/21 15:17	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 15:17	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 15:17	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/19/21 15:17	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 15:17	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 15:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 15:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130			_		03/19/21 15:17	1
4-Bromofluorobenzene (Surr)	111		70 - 130					03/19/21 15:17	1

Client Sample ID: MW-6A Lab Sample ID: 890-344-12 Date Collected: 03/12/21 14:30

Date Received: 03/12/21 15:41

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/19/21 15:38	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 15:38	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 15:38	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/19/21 15:38	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 15:38	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 15:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 15:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130			_		03/19/21 15:38	1
4-Bromofluorobenzene (Surr)	108		70 - 130					03/19/21 15:38	1

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**Matrix: Water** 

# **Client Sample Results**

Client: Talon/LPE Job ID: 890-344-1
Project/Site: CS Caylor SDG: 700376.049.04

Client Sample ID: MW-9A

Lab Sample ID: 890-344-13

**Matrix: Water** 

Date Collected: 03/12/21 07:30 Date Received: 03/12/21 15:41

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/19/21 15:58	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 15:58	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 15:58	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/19/21 15:58	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 15:58	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 15:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130			-		03/19/21 15:58	1
4-Bromofluorobenzene (Surr)	105		70 - 130					03/19/21 15:58	1

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# **Surrogate Summary**

Client: Talon/LPE Job ID: 890-344-1 Project/Site: CS Caylor SDG: 700376.049.04

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		DFBZ1	BFB1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-344-1	MW-18A	99	108	
890-344-1 MSD	MW-18A	95	103	
890-344-2	MW-13A	101	109	
890-344-3	MW-14A	101	104	
890-344-4	MW-15A	100	107	
890-344-5	MW-16A	102	110	
890-344-6	MW-20	100	104	
890-344-7	MW-10A	100	109	
890-344-8	MW-11A	100	112	
890-344-9	MW-17A	101	107	
890-344-10	MW-8A	80	79	
890-344-11	MW-21	103	111	
890-344-12	MW-6A	100	108	
890-344-13	MW-9A	97	105	
MB 880-592/8	Method Blank	97	102	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

Client: Talon/LPE Job ID: 890-344-1 Project/Site: CS Caylor SDG: 700376.049.04

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-592/8

**Matrix: Water Analysis Batch: 592**  Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Benzene <0.00200 U 0.00200 0.000408 mg/L 03/19/21 10:29 Ethylbenzene <0.00200 U 0.00200 0.000657 mg/L 03/19/21 10:29 Toluene <0.00200 U 0.00200 0.000367 mg/L 03/19/21 10:29 Total BTEX <0.00200 U 0.00200 0.00100 mg/L 03/19/21 10:29 Xylenes, Total <0.00400 U 0.00400 0.00100 mg/L 03/19/21 10:29 <0.00200 U 0.00200 0.000642 mg/L 03/19/21 10:29 o-Xylene <0.00400 U 0.00400 0.000629 mg/L 03/19/21 10:29 m-Xylene & p-Xylene

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97	70 - 130		03/19/21 10:29	1
4-Bromofluorobenzene (Surr)	102	70 - 130		03/19/21 10:29	1

Lab Sample ID: 890-344-1 MSD Client Sample ID: MW-18A **Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 592** 

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	<0.00200	U N1	mg/L		0	70 - 130	NC	25
Ethylbenzene	<0.00200	U	0.100	<0.00200	U N1	mg/L		0	70 - 130	NC	25
Toluene	<0.00200	U	0.100	<0.00200	U N1	mg/L		0	70 - 130	NC	25
o-Xylene	<0.00200	U	0.100	<0.00200	U N1	mg/L		0	70 - 130	NC	25
m-Xylene & p-Xylene	<0.00400	U	0.200	<0.00400	U N1	mg/L		0	70 - 130	NC	25

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1,4-Difluorobenzene (Surr)	95	70 - 130
4-Bromofluorobenzene (Surr)	103	70 - 130

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# **QC Association Summary**

 Client: Talon/LPE
 Job ID: 890-344-1

 Project/Site: CS Caylor
 SDG: 700376.049.04

### **GC VOA**

## Analysis Batch: 592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-344-1	MW-18A	Total/NA	Water	8021B	
890-344-2	MW-13A	Total/NA	Water	8021B	
890-344-3	MW-14A	Total/NA	Water	8021B	
890-344-4	MW-15A	Total/NA	Water	8021B	
890-344-5	MW-16A	Total/NA	Water	8021B	
890-344-6	MW-20	Total/NA	Water	8021B	
890-344-7	MW-10A	Total/NA	Water	8021B	
890-344-8	MW-11A	Total/NA	Water	8021B	
890-344-9	MW-17A	Total/NA	Water	8021B	
890-344-10	MW-8A	Total/NA	Water	8021B	
890-344-11	MW-21	Total/NA	Water	8021B	
890-344-12	MW-6A	Total/NA	Water	8021B	
890-344-13	MW-9A	Total/NA	Water	8021B	
MB 880-592/8	Method Blank	Total/NA	Water	8021B	
890-344-1 MSD	MW-18A	Total/NA	Water	8021B	

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Job ID: 890-344-1

SDG: 700376.049.04

Project/Site: CS Caylor Client Sample ID: MW-18A Lab Sample ID: 890-344-1

**Matrix: Water** 

Date Collected: 03/12/21 09:00 Date Received: 03/12/21 15:41

Client: Talon/LPE

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	592	03/19/21 10:58	MR	XM

Client Sample ID: MW-13A Lab Sample ID: 890-344-2

Date Collected: 03/12/21 11:00 **Matrix: Water** 

Date Received: 03/12/21 15:41

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	592	03/19/21 11:19	MR	XM

**Client Sample ID: MW-14A** Lab Sample ID: 890-344-3

Date Collected: 03/12/21 11:40 **Matrix: Water** 

Date Received: 03/12/21 15:41

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	592	03/19/21 11:39	MR	XM

Client Sample ID: MW-15A Lab Sample ID: 890-344-4

Date Collected: 03/12/21 12:50 **Matrix: Water** 

Date Received: 03/12/21 15:41

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	592	03/19/21 12:00	MR	XM

Lab Sample ID: 890-344-5 Client Sample ID: MW-16A

Date Collected: 03/12/21 13:30

Date Received: 03/12/21 15:41

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B			592	03/19/21 12:20	MR	XM

Client Sample ID: MW-20 Lab Sample ID: 890-344-6

Date Collected: 03/12/21 11:30 **Matrix: Water** 

Date Received: 03/12/21 15:41

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8021B			592	03/19/21 12:40	MR	XM	

Client Sample ID: MW-10A Lab Sample ID: 890-344-7

Date Collected: 03/12/21 08:00 **Matrix: Water** 

Date Received: 03/12/21 15:41

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	592	03/19/21 13:01	MR	XM

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**Matrix: Water** 

Job ID: 890-344-1

SDG: 700376.049.04

Client Sample ID: MW-11A

Client: Talon/LPE

Project/Site: CS Caylor

Date Collected: 03/12/21 09:00 Date Received: 03/12/21 15:41

Lab Sample ID: 890-344-8

**Matrix: Water** 

l		Batch	Batch		Dilution	Batch	Prepared		
l	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
۱	Total/NA	Analysis	8021B		1 -	592	03/19/21 13:21	MR	XM

Client Sample ID: MW-17A Lab Sample ID: 890-344-9 Date Collected: 03/12/21 12:13

**Matrix: Water** 

Date Received: 03/12/21 15:41

Total/NA

Total/NA

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8021B	·	1	592	03/19/21 13:42	MR	XM	

Client Sample ID: MW-8A Lab Sample ID: 890-344-10 Date Collected: 03/12/21 13:30 Matrix: Water

Date Received: 03/12/21 15:41

Batch Batch Dilution Batch Prepared **Prep Type** Туре Method Run Factor Number or Analyzed Analyst Lab

Client Sample ID: MW-21 Lab Sample ID: 890-344-11

Date Collected: 03/12/21 10:30 Matrix: Water

03/19/21 14:02

03/19/21 15:38

MR

MR

 $\overline{\mathsf{XM}}$ 

XM

Date Received: 03/12/21 15:41

Analysis

Analysis

8021B

Dilution Batch Batch Batch Prepared Method Prep Type Type Run Factor Number or Analyzed Analyst Lab 8021B 03/19/21 15:17 MR XM Total/NA Analysis

Client Sample ID: MW-6A Lab Sample ID: 890-344-12

Date Collected: 03/12/21 14:30 **Matrix: Water** 

Batch Batch Dilution Batch Prepared Method **Prep Type** Type Run Factor Number or Analyzed Analyst Lab

Client Sample ID: MW-9A Lab Sample ID: 890-344-13

Date Collected: 03/12/21 07:30 **Matrix: Water** 

Date Received: 03/12/21 15:41

Date Received: 03/12/21 15:41

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B			592	03/19/21 15:58	MR	XM

**Laboratory References:** 

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

8021B

# **Accreditation/Certification Summary**

 Client: Talon/LPE
 Job ID: 890-344-1

 Project/Site: CS Caylor
 SDG: 700376.049.04

#### Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	<b>Expiration Date</b>		
Texas	NE	ELAP	T104704400-20-21	06-30-21		
			in al levitien manuscrien en entle entle . This liet man	:		
,	• •	it the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for		
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# **Method Summary**

Client: Talon/LPE Job ID: 890-344-1 Project/Site: CS Caylor

SDG: 700376.049.04

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
5030B	Purge and Trap	SW846	XM

#### **Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# **Sample Summary**

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-344-1 SDG: 700376.049.04

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset
890-344-1	MW-18A	Water	03/12/21 09:00	03/12/21 15:41	
890-344-2	MW-13A	Water	03/12/21 11:00	03/12/21 15:41	
890-344-3	MW-14A	Water	03/12/21 11:40	03/12/21 15:41	
390-344-4	MW-15A	Water	03/12/21 12:50	03/12/21 15:41	
390-344-5	MW-16A	Water	03/12/21 13:30	03/12/21 15:41	
890-344-6	MW-20	Water	03/12/21 11:30	03/12/21 15:41	
390-344-7	MW-10A	Water	03/12/21 08:00	03/12/21 15:41	
90-344-8	MW-11A	Water	03/12/21 09:00	03/12/21 15:41	
90-344-9	MW-17A	Water	03/12/21 12:13	03/12/21 15:41	
90-344-10	MW-8A	Water	03/12/21 13:30	03/12/21 15:41	
90-344-11	MW-21	Water	03/12/21 10:30	03/12/21 15:41	
90-344-12	MW-6A	Water	03/12/21 14:30	03/12/21 15:41	
890-344-13	MW-9A	Water	03/12/21 07:30	03/12/21 15:41	

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# Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Bill to: (if different)

Xenco

**Environment Testing** 

	Work Order No:
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Work Order Comments

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ignature) Date∕Time	ure) Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	(Signature)	Relinquished by: (Signature)
	es beyond the control unless previously negotiated.	in sub-considers. It is the following the second se	to Eurofins Xenco, to annates or expenses incurred by the client and to Eurofins Xenco, but not an	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from a lant company to Eurolins Xenco, to situate and subcontractors. It is service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstance of Eurofins Xenco, will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstance of the sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced of Eurofins Xenco, but not analyzed. These terms will be enforced of Eurofins Xenco, but not analyzed.	ment and relinquishment of samples on the liable only for the cost of samples on the charge of \$85.00 will be applied to e	otice: Signature of this doct f service. Eurofins Xenco wi f Eurofins Xenco. A minimu
Hg: 1631 / 245.1 / 7470 / 7471	Ni Se Ag TI U Hg: 1631/245.1/7470/7471	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni S	CRA Sb As Ba Be Cd	TCLP / SPLP 6010 : 8R	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 Circle Method(s) ar
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to: Camille Bryani				/ 11:00 //		MW-13A
Email Analytical			ω X	8/12/21 9:00 N/A	: NO	MW-18A
Sample Comments			Cont BT	Date Time Depth Comp	Matrix	Sample Identification
NaOH+Ascorbic Acid: SAPC			EX	Corrected Temperature:	1 0	Total Containers:
Zn Acetate+NaOH: Zn			(	Temperature Reading: 4.2/4. U	Yeg No N/A Te	Sample Custody Seals:
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	_	-		Correction Factor:	Yes N/A	Cooler Custody Seals:
NaHSO 4: NABIS	of Custody	890-344 Chain of	aran	Thermometer ID: 7 N N OO	No Cax	Samples Received Intact:
H <sub>3</sub> PO <sub>4</sub> ; HP			neter	No Wetice: Tes No	Temp Blank:	SAMPLE RECEIPT
H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na			rs	the lab, if received by 4:30pm	2002	
				Ļ	1/Ton	
<u>o</u>				Due Date:	hovington, NM	Project Location:
None: NO DI Water: H <sub>2</sub> O			Pres. Code	<b>X</b> Routine □Rush	40.840.041000	Project Number:
Preservative Codes	JEST	ANALYSIS REQUEST		Turn Around	es Caylor	Project Name:
ADaPT Other:	Deliverables: EDD	pe.com	talon	835 Email:   Qadkins@	575-441-4835	Phone:
III PST/UST TRRP Level IV	Reporting: Level III   Level III   PST/UST   TRRP	RS# 2002-10250	SRS# 20	88210 City, State ZIP:	Artesia, NM	City, State ZIP:
	State of Project:	the Camille Bryant	Attn. Ca	STreet Address:	Texas	Address:
Brownfields RRC Superfund	Program: UST/PST PRP		Pipeline	Company Name:	Talon LPE	Company Name:

Xenco **Environment Testing** 

City, State ZIP:

ompany Name:

Talon 408 Texas

> Bill to: (if different) Company Name:

> > merican

Program: UST State of Project:

UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐

Superfund

Work Order Comments

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Reporting: Level II 🔲 Level III 📗 PST/UST 🗍 TRRP 📗

Level IV

Chain of Custody

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Reinquisited by Joighannes Goe (1) 3.1	uishment of samples or the cost of sample 00 will be applied to	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be C		) ) 7	mw-6A / 230 /	$m_{W-21}$ $GW 3/12/-11 10:30 11/4 3$	Sample Identification Matrix Sampled Sampled Depth Comp Cont	Corrected Temperature:	Yes No N/A Temperature Reading:	res No N/A Correction about Co	tact: Yes No Thermometer ID:	emp Blank: Yes No Wetice: Yes No	SAS# 2002-16250 the lab, if received by 4:30pm	RONBEll /Jo.		er:	Project Name: CS Caylor Turn Around	575-441-4835 Email: dadkins @talor loc com
2:2 )5	fins Xenco, its armiates and sub-ontractors. It assigns standard terms and conditions in curred by the client if such losses are due to circumstances beyond the control urofins Xenco, but not analyzed. These terms will be enforced unless previously not not analyzed. These terms will be enforced unless previously not not analyzed. These terms will be enforced unless previously not not to the control of the co	1 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni KTCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U				×	#of Cont	É,	X	80	2	-1					ANALYSIS REQUEST	talor lpc .com Deliverables:
	regotiated.  Received hy: (Cignature)   Date/Time	o Ni K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Zn U Hg: 1631 / 245.1 / 7470 / 7471					Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na 25 20 3: NaSO 3	NaHSO 4: NABIS	H₃PO₄; HP	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na	HCL: HC HNO 3: HN	Cool: Cool MeOH: Me	None: NO DI Water: H <sub>2</sub> O	Preservative Codes	ables: EDD ADaPT Other:

Work Order No:

# **Login Sample Receipt Checklist**

Client: Talon/LPE

Job Number: 890-344-1

SDG Number: 700376.049.04

Login Number: 344 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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# **Login Sample Receipt Checklist**

Client: Talon/LPE Job Number: 890-344-1

SDG Number: 700376.049.04

Login Number: 344 **List Source: Eurofins Midland** List Number: 2

List Creation: 03/15/21 02:49 PM

Creator: Copeland, Tatiana

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

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<6mm (1/4").



# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-816-1

Laboratory Sample Delivery Group: Lovington NM

Client Project/Site: CS Caylor

For:

Talon/LPE 408 W. Texas St. Artesia, New Mexico 88210

Attn: David Adkins

JURAMER

Authorized for release by: 6/24/2021 10:51:28 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS .....

Review your project results through

**Have a Question?** 



Visit us at:

www.eurofinsus.com/Env

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Talon/LPE Laboratory Job ID: 890-816-1
Project/Site: CS Caylor SDG: Lovington NM

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# **Definitions/Glossary**

Client: Talon/LPE Job ID: 890-816-1
Project/Site: CS Caylor SDG: Lovington NM

## Qualifiers

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Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEC	Negative / Abcept

NEG	Negative / Absent
POS	Positive / Present

PQL	Practical Quantitation Limit

PRES	Presumptive
QC	Quality Control

ry)

RL F	Reporting Limit or Requested	Limit (Radiochemistry)
------	------------------------------	------------------------

RPD	Relative Percent Difference, a measure of the relative difference between two points

TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

#### **Case Narrative**

Client: Talon/LPE Job ID: 890-816-1
Project/Site: CS Caylor SDG: Lovington NM

Job ID: 890-816-1

**Laboratory: Eurofins Xenco, Carlsbad** 

Narrative

Job Narrative 890-816-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 6/16/2021 8:14 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.6° C.

#### **GC VOA**

Method 8021B: The matrix spike duplicate (MSD) recoveries for analytical batch 880-4226 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The method blank for analytical batch 880-4226 contained Toluene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **VOA Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Client: Talon/LPE Job ID: 890-816-1 Project/Site: CS Caylor SDG: Lovington NM

Client Sample ID: MW-11A

Lab Sample ID: 890-816-1 Date Collected: 06/14/21 07:30

**Matrix: Water** Date Received: 06/16/21 08:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/17/21 15:05	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 15:05	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 15:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 15:05	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 15:05	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 15:05	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/17/21 15:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			-		06/17/21 15:05	1
1,4-Difluorobenzene (Surr)	105		70 - 130					06/17/21 15:05	1

Client Sample ID: MW-13A Lab Sample ID: 890-816-2

Date Collected: 06/14/21 08:45 **Matrix: Water** 

Date Received: 06/16/21 08:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/17/21 15:29	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 15:29	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 15:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 15:29	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 15:29	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 15:29	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/17/21 15:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			_		06/17/21 15:29	1
1,4-Difluorobenzene (Surr)	102		70 - 130					06/17/21 15:29	1

Client Sample ID: MW-14A Lab Sample ID: 890-816-3

Date Collected: 06/14/21 09:30 **Matrix: Water** Date Received: 06/16/21 08:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/17/21 15:54	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 15:54	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 15:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 15:54	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 15:54	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 15:54	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/17/21 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 _ 130			_		06/17/21 15:54	1
1.4-Difluorobenzene (Surr)	104		70 - 130					06/17/21 15:54	1

Eurofins Xenco, Carlsbad

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Client: Talon/LPE Job ID: 890-816-1 Project/Site: CS Caylor SDG: Lovington NM

Client Sample ID: MW-6A Lab Sample ID: 890-816-4 Date Collected: 06/14/21 10:30 **Matrix: Water** 

Date Received: 06/16/21 08:14

Method: 8021B - Volatile Orga	nic Compounds (	(GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/17/21 16:19	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 16:19	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 16:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 16:19	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 16:19	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 16:19	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/17/21 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			-		06/17/21 16:19	1
1,4-Difluorobenzene (Surr)	103		70 - 130					06/17/21 16:19	1

Client Sample ID: MW-15A Lab Sample ID: 890-816-5 Date Collected: 06/14/21 11:10 **Matrix: Water** 

Date Received: 06/16/21 08:14

1,4-Difluorobenzene (Surr)

Date Received: 06/16/21 08:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/17/21 16:43	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 16:43	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 16:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 16:43	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 16:43	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 16:43	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/17/21 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			_		06/17/21 16:43	1

Client Sample ID: MW-16A Lab Sample ID: 890-816-6 Date Collected: 06/14/21 12:00 **Matrix: Water** 

70 - 130

109

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/17/21 17:08	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 17:08	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 17:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 17:08	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 17:08	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 17:08	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/17/21 17:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			-		06/17/21 17:08	1
1,4-Difluorobenzene (Surr)	106		70 - 130					06/17/21 17:08	1

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06/17/21 16:43

Client: Talon/LPE Job ID: 890-816-1 Project/Site: CS Caylor SDG: Lovington NM

Client Sample ID: MW-17A Date Collected: 06/14/21 13:30

Lab Sample ID: 890-816-7

**Matrix: Water** 

Date Received: 06/16/21 08:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000820	J	0.00200	0.000408	mg/L			06/17/21 17:32	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 17:32	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 17:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 17:32	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 17:32	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 17:32	1
Total BTEX	0.000820	J	0.00400	0.000657	mg/L			06/17/21 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			-		06/17/21 17:32	1
1,4-Difluorobenzene (Surr)	104		70 - 130					06/17/21 17:32	1

Client Sample ID: MW-9A Lab Sample ID: 890-816-8

Date Collected: 06/14/21 13:30 **Matrix: Water** 

Date Received: 06/16/21 08:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/17/21 17:57	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 17:57	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 17:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 17:57	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 17:57	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 17:57	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/17/21 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			-		06/17/21 17:57	1
1,4-Difluorobenzene (Surr)	102		70 - 130					06/17/21 17:57	1

Client Sample ID: MW-10A Lab Sample ID: 890-816-9

Date Collected: 06/14/21 13:00 Date Received: 06/16/21 08:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0136		0.00200	0.000408	mg/L			06/17/21 18:21	1
Toluene	0.000542	J	0.00200	0.000367	mg/L			06/17/21 18:21	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 18:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 18:21	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 18:21	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 18:21	1
Total BTEX	0.0141		0.00400	0.000657	mg/L			06/17/21 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130					06/17/21 18:21	1

70 - 130

108

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06/17/21 18:21

**Matrix: Water** 

1,4-Difluorobenzene (Surr)

Client: Talon/LPE Job ID: 890-816-1 Project/Site: CS Caylor SDG: Lovington NM

Client Sample ID: MW-8A Lab Sample ID: 890-816-10

Date Collected: 06/14/21 13:00 **Matrix: Water** 

Date Received: 06/16/21 08:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/17/21 18:47	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 18:47	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 18:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 18:47	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 18:47	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 18:47	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/17/21 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130			-		06/17/21 18:47	1
1,4-Difluorobenzene (Surr)	92		70 - 130					06/17/21 18:47	1

Client Sample ID: MW-21 Lab Sample ID: 890-816-11

Date Collected: 06/14/21 14:00 Matrix: Water Date Received: 06/16/21 08:14

Method: 8021B - Volatile Organic Compounds (GC) Result Qualifier Dil Fac Analyte RL MDL Unit D Prepared Analyzed Benzene <0.00200 U 0.00200 0.000408 06/23/21 15:27 mg/L Toluene 0.00200 0.000367 mg/L 06/23/21 15:27 0.000371 J 0.000657 mg/L Ethylbenzene 0.000906 J 0.00200 06/23/21 15:27 0.000629 mg/L 06/23/21 15:27 0.00400 m-Xylene & p-Xylene 0.00211 J o-Xylene <0.00200 U 0.00200 0.000642 mg/L 06/23/21 15:27 0.000642 mg/L 06/23/21 15:27 **Xylenes, Total** 0.00400 0.00211 J **Total BTEX** 0.00339 0.00400 0.000657 mg/L 06/23/21 15:27 Surrogate %Recovery Limits Prepared Analyzed Dil Fac

4-Bromofluorobenzene (Surr) 70 - 130 06/23/21 15:27 112 1,4-Difluorobenzene (Surr) 155 X 70 - 130 06/23/21 15:27

Client Sample ID: MW-18A Lab Sample ID: 890-816-13 Date Collected: 06/14/21 14:40 **Matrix: Water** Date Received: 06/16/21 08:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/23/21 15:52	1
Toluene	0.000405	J	0.00200	0.000367	mg/L			06/23/21 15:52	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/23/21 15:52	1
m-Xylene & p-Xylene	0.00125	J	0.00400	0.000629	mg/L			06/23/21 15:52	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/23/21 15:52	1
Xylenes, Total	0.00125	J	0.00400	0.000642	mg/L			06/23/21 15:52	1
Total BTEX	0.00166	J	0.00400	0.000657	mg/L			06/23/21 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 _ 130			-		06/23/21 15:52	1
1,4-Difluorobenzene (Surr)	150	X	70 - 130					06/23/21 15:52	1

## **Surrogate Summary**

Client: Talon/LPE Job ID: 890-816-1
Project/Site: CS Caylor SDG: Lovington NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water Prep Type: Total/NA

MWS MW-11A 116 105 MS MW-11A 104 109 MSD MW-11A 71 92 MW-13A 116 102 MW-14A 118 104 MW-6A 114 103 MW-15A 123 109 MW-16A 118 106 MW-17A 118 106 MW-17A 118 104 MW-9A 114 102 MW-10A 124 108 MW-10A 124 108 MW-10A 124 108 MW-18A 72 92 MW-18A 102 155 X MW-18A 102 150 X MW-18A 102 150 X MW-18A 102 150 X MW-18A 102 108 MW-18A 102 108 MW-18A 109 114 MW-10A 109 115 X MW-18A 109 115 X MW-18A 109 15 15 X MW-18A 109 114 MW-18A 109 150 X MW-18A 109					Percent S	Surrogate R	Surrogate Recovery (Accep
MW-11A 116 105  MS MW-11A 104 109  MSD MW-11A 71 92  MW-13A 116 102  MW-14A 118 104  MW-6A 114 103  MW-15A 123 109  MW-16A 118 106  MW-17A 118 106  MW-17A 118 104  MW-9A 114 102  MW-10A 124 108  MW-10A 124 108  MW-10A 124 108  MW-18A 72 92  MW-18A 72 92  MW-18A 102 155 X  MW-18A 102 150 X  226/3 Lab Control Sample 102 108  428/3 Lab Control Sample 109 114  464/34 Lab Control Sample 109 104  4428/4 Lab Control Sample Dup 94 99  44428/4 Lab Control Sample Dup 95 151 X  226/8 Method Blank 0.002 X 87  226/9 Method Blank 111 101  664/39 Method Blank 64 X 119			BFB1	DFBZ1			
MS MW-11A 104 109 MSD MW-11A 71 92 MW-13A 116 102 MW-14A 118 104 MW-6A 114 103 MW-15A 123 109 MW-16A 118 106 MW-17A 118 104 MW-9A 114 102 MW-10A 124 108 MW-10A 124 108 MW-8A 72 92 MW-8A 72 92 MW-18A 102 155 X MW-18A 102 150 X 226/3 Lab Control Sample 102 108 428/3 Lab Control Sample 109 114 464/34 Lab Control Sample 109 114 464/34 Lab Control Sample 109 104 109 4428/4 Lab Control Sample Dup 94 99 4428/4 Lab Control Sample Dup 94 99 44464/35 Lab Control Sample Dup 95 151 X 226/8 Method Blank 0.002 X 87 228/9 Method Blank 111 101 664/39 Method Blank 64 X 119	Lab Sample ID	Client Sample ID	(70-130)	(70-130)			
MSD MW-11A 71 92  MW-13A 116 102  MW-14A 118 104  MW-6A 114 103  MW-15A 123 109  MW-16A 118 106  MW-17A 118 104  MW-9A 114 102  MW-10A 124 108  0 MW-8A 72 92  I MW-21 112 155 X  3 MW-18A 102 150 X  226/3 Lab Control Sample 102 108  428/3 Lab Control Sample 109 114  464/34 Lab Control Sample 109 114  464/34 Lab Control Sample Dup 96 158 X  4226/4 Lab Control Sample Dup 97 109  4428/4 Lab Control Sample Dup 98 99  4464/35 Lab Control Sample Dup 99 99  4464/35 Lab Control Sample Dup 95 151 X  226/8 Method Blank 0.002 X 87  228/9 Method Blank 111 101  664/39 Method Blank 111 101	390-816-1	MW-11A	116	105			
MW-13A 116 102 MW-14A 118 104 MW-6A 114 103 MW-15A 123 109 MW-16A 118 106 MW-17A 118 104 MW-9A 114 102 MW-10A 124 108 0 MW-8A 72 92 I MW-21 112 155 X 0 MW-18A 102 150 X 226/3 Lab Control Sample 102 108 428/3 Lab Control Sample 109 114 464/34 Lab Control Sample Dup 96 158 X 4226/4 Lab Control Sample Dup 99 151 X 426/8 Method Blank 0.002 X 87 428/9 Method Blank 111 101 464/39 Method Blank 111 101 464/39 Method Blank 111 101	890-816-1 MS	MW-11A	104	109			
MW-14A MW-6A MW-15A MW-15A MW-16A MW-16A MW-17A MW-9A MW-10A MW-8A MW-21 MW-21 MW-21 MW-18A M	890-816-1 MSD	MW-11A	71	92			
MW-6A 114 103 MW-15A 123 109 MW-16A 118 106 MW-17A 118 104 MW-9A 114 102 MW-10A 124 108 0 MW-8A 72 92 0 MW-8A 72 92 0 MW-18A 102 155 X 0 MW-18A 102 150 X 0 226/3 Lab Control Sample 102 108 0 428/3 Lab Control Sample 109 114 0 464/34 Lab Control Sample 96 158 X 0 4226/4 Lab Control Sample Dup 104 109 0 4428/4 Lab Control Sample Dup 94 99 0 4464/35 Lab Control Sample Dup 95 151 X 0 0 002 X 87 0 0 002 Method Blank 111 101 0 0 003	890-816-2	MW-13A	116	102			
MW-15A 123 109 MW-16A 118 106 MW-17A 118 104 MW-9A 114 102 MW-10A 124 108 0 MW-8A 72 92 1 MW-21 112 155 X 3 MW-18A 102 150 X 226/3 Lab Control Sample 102 108 428/3 Lab Control Sample 109 114 464/34 Lab Control Sample 96 158 X 4226/4 Lab Control Sample Dup 104 109 4428/4 Lab Control Sample Dup 94 99 4464/35 Lab Control Sample Dup 95 151 X 26/8 Method Blank 0.002 X 87 26/89 Method Blank 111 101 26/8/99 Method Blank 111 101	890-816-3	MW-14A	118	104			
MW-16A 118 106 MW-17A 118 104 MW-9A 114 102 MW-10A 124 108 0 MW-8A 72 92 1 MW-21 112 155 X 3 MW-18A 102 150 X 226/3 Lab Control Sample 102 108 428/3 Lab Control Sample 109 114 464/34 Lab Control Sample 96 158 X -4226/4 Lab Control Sample Dup 104 109 -4428/4 Lab Control Sample Dup 94 99 -4464/35 Lab Control Sample Dup 95 151 X 226/8 Method Blank 0.002 X 87 -228/9 Method Blank 111 101 -264/39 Method Blank 64 X 119	890-816-4	MW-6A	114	103			
MW-17A 118 104 MW-9A 114 102 MW-10A 124 108 0 MW-8A 72 92 1 MW-21 112 155 X 3 MW-18A 102 150 X 226/3 Lab Control Sample 102 108 428/3 Lab Control Sample 109 114 464/34 Lab Control Sample 96 158 X -4226/4 Lab Control Sample Dup 104 109 -4428/4 Lab Control Sample Dup 94 99 -4464/35 Lab Control Sample Dup 95 151 X -226/8 Method Blank 0.002 X 87 -228/9 Method Blank 111 101 -264/39 Method Blank 64 X 119	890-816-5	MW-15A	123	109			
MW-9A 114 102 MW-10A 124 108  MW-8A 72 92  MW-8A 72 92  MW-18A 102 155 X  MW-18A 102 150 X  226/3 Lab Control Sample 102 108  428/3 Lab Control Sample 96 158 X  -4226/4 Lab Control Sample Dup 104 109  -4428/4 Lab Control Sample Dup 94 99  -4464/35 Lab Control Sample Dup 95 151 X  -226/8 Method Blank 0.002 X 87  -228/9 Method Blank 111 101  -264/39 Method Blank 64 X 119	890-816-6	MW-16A	118	106			
MW-10A 124 108  MW-8A 72 92  MW-21 112 155 X  MW-18A 102 150 X  226/3 Lab Control Sample 102 108  428/3 Lab Control Sample 109 114  464/34 Lab Control Sample 96 158 X  -4226/4 Lab Control Sample Dup 104 109  -4428/4 Lab Control Sample Dup 94 99  -4464/35 Lab Control Sample Dup 95 151 X  -226/8 Method Blank 0.002 X 87  -228/9 Method Blank 111 101  -664/39 Method Blank 64 X 119	890-816-7	MW-17A	118	104			
MW-8A 72 92  MW-18A 112 155 X  MW-18A 102 150 X  226/3 Lab Control Sample 102 108  428/3 Lab Control Sample 109 114  464/34 Lab Control Sample 96 158 X  4226/4 Lab Control Sample Dup 104 109  -4428/4 Lab Control Sample Dup 94 99  -4464/35 Lab Control Sample Dup 95 151 X  226/8 Method Blank 0.002 X 87  Method Blank 111 101  66/39 Method Blank 64 X 119	890-816-8	MW-9A	114	102			
MW-21 112 155 X  MW-18A 102 150 X  226/3 Lab Control Sample 102 108  428/3 Lab Control Sample 109 114  464/34 Lab Control Sample 96 158 X  -4226/4 Lab Control Sample Dup 104 109  -4428/4 Lab Control Sample Dup 94 99  -4464/35 Lab Control Sample Dup 95 151 X  226/8 Method Blank 0.002 X 87  -28/9 Method Blank 111 101  -66/39 Method Blank 64 X 119	890-816-9	MW-10A	124	108			
MW-18A 102 150 X 226/3 Lab Control Sample 102 108 428/3 Lab Control Sample 109 114 464/34 Lab Control Sample 96 158 X -4226/4 Lab Control Sample Dup 104 109 -4428/4 Lab Control Sample Dup 94 99 -4464/35 Lab Control Sample Dup 95 151 X -226/8 Method Blank 0.002 X 87 -228/9 Method Blank 111 101 -264/39 Method Blank 64 X 119	890-816-10	MW-8A	72	92			
226/3       Lab Control Sample       102       108         428/3       Lab Control Sample       109       114         464/34       Lab Control Sample       96       158 X         -4226/4       Lab Control Sample Dup       104       109         -4428/4       Lab Control Sample Dup       94       99         -4464/35       Lab Control Sample Dup       95       151 X         426/8       Method Blank       0.002 X       87         428/9       Method Blank       111       101         464/39       Method Blank       64 X       119	890-816-11	MW-21	112	155 X			
428/3       Lab Control Sample       109       114         464/34       Lab Control Sample       96       158 X         -4226/4       Lab Control Sample Dup       104       109         -4428/4       Lab Control Sample Dup       94       99         -4464/35       Lab Control Sample Dup       95       151 X         -226/8       Method Blank       0.002 X       87         -228/9       Method Blank       111       101         -64/39       Method Blank       64 X       119	890-816-13	MW-18A	102	150 X			
464/34       Lab Control Sample       96       158 X         .4226/4       Lab Control Sample Dup       104       109         .4428/4       Lab Control Sample Dup       94       99         .4464/35       Lab Control Sample Dup       95       151 X         .26/8       Method Blank       0.002 X       87         .28/9       Method Blank       111       101         .64/39       Method Blank       64 X       119	LCS 880-4226/3	Lab Control Sample	102	108			
4226/4       Lab Control Sample Dup       104       109         4428/4       Lab Control Sample Dup       94       99         4464/35       Lab Control Sample Dup       95       151 X         426/8       Method Blank       0.002 X       87         428/9       Method Blank       111       101         464/39       Method Blank       64 X       119	LCS 880-4428/3	Lab Control Sample	109	114			
4428/4       Lab Control Sample Dup       94       99         -4464/35       Lab Control Sample Dup       95       151 X         126/8       Method Blank       0.002 X       87         128/9       Method Blank       111       101         164/39       Method Blank       64 X       119	LCS 880-4464/34	Lab Control Sample	96	158 X			
-4464/35       Lab Control Sample Dup       95       151 X         -26/8       Method Blank       0.002 X       87         -28/9       Method Blank       111       101         -64/39       Method Blank       64 X       119	LCSD 880-4226/4	Lab Control Sample Dup	104	109			
226/8     Method Blank     0.002 X     87       228/9     Method Blank     111     101       64/39     Method Blank     64 X     119	LCSD 880-4428/4	Lab Control Sample Dup	94	99			
128/9     Method Blank     111     101       164/39     Method Blank     64 X     119	LCSD 880-4464/35	Lab Control Sample Dup	95	151 X			
64/39 Method Blank 64 X 119	MB 880-4226/8	Method Blank	0.002 X	87			
	MB 880-4428/9	Method Blank	111	101			
64/8 Method Blank 62 X 111	MB 880-4464/39	Method Blank	64 X	119			
	MB 880-4464/8	Method Blank	62 X	111			
	Surrogate Legend						

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Client: Talon/LPE Job ID: 890-816-1 Project/Site: CS Caylor SDG: Lovington NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4226/8

**Matrix: Water** 

**Analysis Batch: 4226** 

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

m-Xylene & p-Xylene

Client Sam	iple ID: I	Metho	d Blank
	Prep T	ype:	Total/NA

мв мв Dil Fac Result Qualifier RLMDL Unit D Prepared Analyzed <0.00200 U 0.00200 0.000408 mg/L 06/17/21 14:41 <0.00200 U 0.00200 0.000367 mg/L 06/17/21 14:41 <0.00200 U 0.00200 0.000657 mg/L 06/17/21 14:41 <0.00400 U 0.00400 0.000629 mg/L 06/17/21 14:41 <0.00200 U 0.00200 0.000642 mg/L 06/17/21 14:41 <0.00400 U 0.00400 0.000642 mg/L 06/17/21 14:41 0.00400 <0.00400 U 0.000657 mg/L 06/17/21 14:41

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 0.002 X 70 - 130 06/17/21 14:41 1,4-Difluorobenzene (Surr) 87 70 - 130 06/17/21 14:41

Lab Sample ID: LCS 880-4226/3

**Matrix: Water** 

**Analysis Batch: 4226** 

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec. Analyte Added Result Qualifier %Rec Unit D Limits Benzene 0.100 0.08239 mg/L 82 70 - 130 Toluene 0.100 0.08174 mg/L 82 70 - 130 0.100 0.1011 101 Ethylbenzene mg/L 70 - 130 m-Xylene & p-Xylene 0.200 0.1796 mg/L 90 70 - 130 0.09309 70 - 130 o-Xylene 0.100 93 mg/L

Spike

Added

0.100

0.100

0.100

0.200

0.100

LCSD LCSD

0.08001

0.07839

0.09988

0.1774

0.09060

Result Qualifier

mg/L

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1.4-Difluorobenzene (Surr)	108	70 - 130

Lab Sample ID: LCSD 880-4226/4

**Matrix: Water** 

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

**Analysis Batch: 4226** 

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

%Rec. RPD Unit %Rec Limits RPD Limit D mg/L 80 70 - 130 20 mg/L 78 70 - 130 20 mg/L 100 70 - 130 20 mg/L 89 70 - 130 20

70 - 130

91

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-816-1 MS

**Matrix: Water** 

Analysis Ratch: 4226

Analysis Batch. 4220									
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00200	U	0.100	0.08557		mg/L		86	70 _ 130

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Client Sample ID: MW-11A

Prep Type: Total/NA

20

Client: Talon/LPE Project/Site: CS Caylor

Job ID: 890-816-1 SDG: Lovington NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-816-1 MS

**Matrix: Water Analysis Batch: 4226**  Client Sample ID: MW-11A

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Toluene	<0.00200	U	0.100	0.08443		mg/L		84	70 - 130	
Ethylbenzene	<0.00200	U	0.100	0.1057		mg/L		106	70 - 130	
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1884		mg/L		94	70 - 130	
o-Xylene	<0.00200	U	0.100	0.09756		mg/L		98	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-816-1 MSD Client Sample ID: MW-11A Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 4226** 

MSD MSD %Rec. RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Benzene <0.00200 U N1 25 <0.00200 0.100 mg/L 0 70 - 130 NC Toluene <0.00200 U 0.100 <0.00200 U N1 0 70 - 130 NC 25 mg/L 0.100 70 - 130 Ethylbenzene <0.00200 U <0.00200 U N1 mg/L 0 NC 25 <0.00400 U N1 <0.00400 U 0.200 0 70 - 130 NC 25 m-Xylene & p-Xylene mg/L o-Xylene <0.00200 U 0.100 <0.00200 U N1 mg/L 70 - 130 NC

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	71	70 - 130
1,4-Difluorobenzene (Surr)	92	70 - 130

Lab Sample ID: MB 880-4428/9

мв мв

**Matrix: Water** 

**Analysis Batch: 4428** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 0.000408 mg/L 06/21/21 19:31 Toluene <0.00200 U 0.00200 0.000367 mg/L 06/21/21 19:31 Ethylbenzene <0.00200 U 0.00200 0.000657 mg/L 06/21/21 19:31 0.00400 0.000629 mg/L 06/21/21 19:31 m-Xylene & p-Xylene <0.00400 U 0.00200 o-Xylene <0.00200 U 0.000642 mg/L 06/21/21 19:31 0.00400 Xylenes, Total <0.00400 U 0.000642 mg/L 06/21/21 19:31 Total BTEX <0.00400 U 0.00400 0.000657 mg/L 06/21/21 19:31

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130		06/21/21 19:31	1
1,4-Difluorobenzene (Surr)	101		70 - 130		06/21/21 19:31	1

Lab Sample ID: LCS 880-4428/3

**Matrix: Water** 

**Analysis Batch: 4428** 

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 109

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Client: Talon/LPE Project/Site: CS Caylor

Job ID: 890-816-1

SDG: Lovington NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued) Lab Sample ID: LCS 880-4428/3

**Matrix: Water** 

**Analysis Batch: 4428** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

LCS LCS

Surrogate %Recovery Qualifier Limits 1,4-Difluorobenzene (Surr) 114 70 - 130

> Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Lab Sample ID: LCSD 880-4428/4

**Matrix: Water** 

**Analysis Batch: 4428** 

LCSD L	.CSD
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Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-4464/39 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 4464

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/23/21 02:31	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/23/21 02:31	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/23/21 02:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/23/21 02:31	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/23/21 02:31	1
Xylenes, Total	< 0.00400	U	0.00400	0.000642	mg/L			06/23/21 02:31	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/23/21 02:31	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	X	70 - 130		06/23/21 02:31	1
1,4-Difluorobenzene (Surr)	119		70 - 130		06/23/21 02:31	1

Lab Sample ID: MB 880-4464/8

**Matrix: Water** 

**Analysis Batch: 4464** 

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/22/21 13:28	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/22/21 13:28	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/22/21 13:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/22/21 13:28	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/22/21 13:28	1
Xylenes, Total	< 0.00400	U	0.00400	0.000642	mg/L			06/22/21 13:28	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/22/21 13:28	1

MB	MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	X	70 - 130		06/22/21 13:28	1
1,4-Difluorobenzene (Surr)	111		70 - 130		06/22/21 13:28	1

Eurofins Xenco, Carlsbad

Client Sample ID: Method Blank

Prep Type: Total/NA

## **QC Sample Results**

Client: Talon/LPE Job ID: 890-816-1
Project/Site: CS Caylor SDG: Lovington NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-4464/34

Lab Sample ID: LCSD 880-4464/35

**Matrix: Water** 

**Analysis Batch: 4464** 

Matrix: Water Analysis Batch: 4464 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1221 mg/L 122 70 - 130 Toluene 0.100 0.1166 mg/L 117 70 - 130 Ethylbenzene 0.100 0.1065 70 - 130 mg/L 106 0.200 70 - 130 m-Xylene & p-Xylene 0.2195 mg/L 110 o-Xylene 0.100 0.1098 mg/L 110 70 - 130

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 96
 70 - 130

 1,4-Diffuorobenzene (Surr)
 158
 X
 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Spike LCSD LCSD %Rec. RPD Added Result Qualifier Limits RPD Limit Analyte Unit %Rec Benzene 0.100 0.1204 mg/L 120 70 - 130 20 Toluene 0.100 0.1234 mg/L 123 70 - 130 6 20 Ethylbenzene 0.100 0.1061 mg/L 106 70 - 130 0 20 0.200 0.2185 m-Xylene & p-Xylene mg/L 109 70 - 130 0 20 0.100 0.1094 o-Xylene mg/L 109 70 - 130 0 20

 Surrogate
 %Recovery 4-Bromofluorobenzene (Surr)
 95
 70 - 130

 1,4-Diffluorobenzene (Surr)
 151
 X
 70 - 130

## **QC Association Summary**

Client: Talon/LPE Job ID: 890-816-1
Project/Site: CS Caylor SDG: Lovington NM

GC VOA

Analysis Batch: 4226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-816-1	MW-11A	Total/NA	Water	8021B	
890-816-2	MW-13A	Total/NA	Water	8021B	
890-816-3	MW-14A	Total/NA	Water	8021B	
890-816-4	MW-6A	Total/NA	Water	8021B	
890-816-5	MW-15A	Total/NA	Water	8021B	
890-816-6	MW-16A	Total/NA	Water	8021B	
890-816-7	MW-17A	Total/NA	Water	8021B	
890-816-8	MW-9A	Total/NA	Water	8021B	
890-816-9	MW-10A	Total/NA	Water	8021B	
890-816-10	MW-8A	Total/NA	Water	8021B	
MB 880-4226/8	Method Blank	Total/NA	Water	8021B	
LCS 880-4226/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-4226/4	Lab Control Sample Dup	Total/NA	Water	8021B	
890-816-1 MS	MW-11A	Total/NA	Water	8021B	
890-816-1 MSD	MW-11A	Total/NA	Water	8021B	

Analysis Batch: 4428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4428/9	Method Blank	Total/NA	Water	8021B	
LCS 880-4428/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-4428/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 4464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-816-11	MW-21	Total/NA	Water	8021B	
890-816-13	MW-18A	Total/NA	Water	8021B	
MB 880-4464/39	Method Blank	Total/NA	Water	8021B	
MB 880-4464/8	Method Blank	Total/NA	Water	8021B	
LCS 880-4464/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-4464/35	Lab Control Sample Dup	Total/NA	Water	8021B	

Job ID: 890-816-1

SDG: Lovington NM

Client Sample ID: MW-11A

Client: Talon/LPE

Project/Site: CS Caylor

Date Collected: 06/14/21 07:30 Date Received: 06/16/21 08:14

Lab Sample ID: 890-816-1

**Matrix: Water** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4226	06/17/21 15:05	MR	XEN MID

Client Sample ID: MW-13A Lab Sample ID: 890-816-2

**Matrix: Water** 

Date Collected: 06/14/21 08:45 Date Received: 06/16/21 08:14

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Factor Amount Amount Number or Analyzed Analyst Type Run Lab Total/NA 8021B 4226 06/17/21 15:29 MR XEN MID Analysis 5 mL 5 mL

Client Sample ID: MW-14A

Date Collected: 06/14/21 09:30 Date Received: 06/16/21 08:14

Lab Sample ID: 890-816-3

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4226	06/17/21 15:54	MR	XEN MID

Client Sample ID: MW-6A Lab Sample ID: 890-816-4

Date Collected: 06/14/21 10:30

Date Received: 06/16/21 08:14

**Matrix: Water** 

**Matrix: Water** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4226	06/17/21 16:19	MR	XEN MID

Client Sample ID: MW-15A Lab Sample ID: 890-816-5

Date Collected: 06/14/21 11:10 Date Received: 06/16/21 08:14

Ratch Initial

-		Dateii	Daten		Dii	iiiitiai	i iiiai	Daton	riepareu		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
l	Total/NA	Analysis	8021B		1	5 mL	5 mL	4226	06/17/21 16:43	MR	XEN MID

Client Sample ID: MW-16A Lab Sample ID: 890-816-6 Date Collected: 06/14/21 12:00 **Matrix: Water** 

Date Received: 06/16/21 08:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B			5 mL	5 mL	4226	06/17/21 17:08	MR	XEN MID

Client Sample ID: MW-17A Lab Sample ID: 890-816-7

Date Collected: 06/14/21 13:30 Date Received: 06/16/21 08:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8021B		1	5 mL	5 mL	4226	06/17/21 17:32	MR	XEN MID	_

Eurofins Xenco, Carlsbad

**Matrix: Water** 

Client: Talon/LPE Project/Site: CS Caylor Job ID: 890-816-1

SDG: Lovington NM

Client Sample ID: MW-9A

Date Received: 06/16/21 08:14

Lab Sample ID: 890-816-8 Date Collected: 06/14/21 13:30

**Matrix: Water** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4226	06/17/21 17:57	MR	XEN MID

Client Sample ID: MW-10A Lab Sample ID: 890-816-9

**Matrix: Water** 

**Matrix: Water** 

Date Collected: 06/14/21 13:00 Date Received: 06/16/21 08:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4226	06/17/21 18:21	MR	XEN MID

Client Sample ID: MW-8A Lab Sample ID: 890-816-10

Date Collected: 06/14/21 13:00 **Matrix: Water** 

Date Received: 06/16/21 08:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4226	06/17/21 18:47	MR	XEN MID

Client Sample ID: MW-21 Lab Sample ID: 890-816-11

Date Collected: 06/14/21 14:00 **Matrix: Water** 

Date Received: 06/16/21 08:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4464	06/23/21 15:27	MR	XEN MID

Client Sample ID: MW-18A Lab Sample ID: 890-816-13

Date Collected: 06/14/21 14:40

Date Received: 06/16/21 08:14

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	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8021B		1	5 mL	5 mL	4464	06/23/21 15:52	MR	XEN MID	

**Laboratory References:** 

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

## **Accreditation/Certification Summary**

Client: Talon/LPE Job ID: 890-816-1
Project/Site: CS Caylor SDG: Lovington NM

## **Laboratory: Eurofins Xenco, Midland**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-20-21	06-30-21	
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,	• •	it the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for	
the agency does not of	• •	it the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for	
,	• •	ut the laboratory is not certifi  Matrix	ied by the governing authority. This list ma  Analyte	ay include analytes for	

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## **Method Summary**

Client: Talon/LPE Job ID: 890-816-1
Project/Site: CS Caylor SDG: Lovington NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
5030B	Purge and Trap	SW846	XEN MID

## **Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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## **Sample Summary**

Client: Talon/LPE Project/Site: CS Caylor Job ID: 890-816-1

SDG: Lovington NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-816-1	MW-11A	Water	06/14/21 07:30	06/16/21 08:14
890-816-2	MW-13A	Water	06/14/21 08:45	06/16/21 08:14
890-816-3	MW-14A	Water	06/14/21 09:30	06/16/21 08:14
890-816-4	MW-6A	Water	06/14/21 10:30	06/16/21 08:14
890-816-5	MW-15A	Water	06/14/21 11:10	06/16/21 08:14
890-816-6	MW-16A	Water	06/14/21 12:00	06/16/21 08:14
890-816-7	MW-17A	Water	06/14/21 13:30	06/16/21 08:14
890-816-8	MW-9A	Water	06/14/21 13:30	06/16/21 08:14
890-816-9	MW-10A	Water	06/14/21 13:00	06/16/21 08:14
890-816-10	MW-8A	Water	06/14/21 13:00	06/16/21 08:14
890-816-11	MW-21	Water	06/14/21 14:00	06/16/21 08:14
890-816-13	MW-18A	Water	06/14/21 14:40	06/16/21 08:14

6/24/2021

Work Order No:	Work Order No:  www.xenco.com  Work Order Comin	
Neme	COA	
Name	All American program	Page L of Z
10   10   10   10   10   10   10   10	Program:	nents
		rerds RRC Superfund
STEPLED   ATTRICT   STEPLED   City State 3D;	Bryant State of Project:	
STS-44  * 4   3  5   Enail:   Gaok   Kirzk @ Hallon   pc., Com   AMAYSIS REQUEST	Reporting: Level III Level III	PST/UST TRRP Level IV
Particular   Canada   Canada	talon loe, com	Other:
State   Control   Contro	ANALYSIS REQUEST	Preservative Codes
Provided   Provided		None: NO DI Water: H <sub>2</sub> O
Sample   Stock   Sto	C00]	_
SAS ## 3002 - 10350   The total necessory of the total necessor of the necessor of the total necessor of the total necessor of the tota	HCC	
Temp Blank   Cancector Temp Blank   Conscious Feb.   Cancer   Conscious Feb.   Cancer   Can	8	H250 4: H2 NaOH: Na
Yes No   MA   Temperature Reading   14   26   26   26   26   26   26   26   2	·12	H <sub>3</sub> PO <sub>4</sub> : HP
Yes No NA   Temperature Reading:   1.6	20	NaHSO 4: NABIS
li K Se Ag SiO <sub>2</sub> Na Sr Hg: 1631/245.1/ Received by: (Signature)	890-816 Chain of Custody	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : Na <sub>5</sub> O <sub>3</sub>
li K Se Ag SiO <sub>2</sub> Na Sr Hg: 1631 / 245.1 /		Zn Acetate+NaOH: Zn
li K Se Ag SiO <sub>2</sub> Na Sr 7 Hg: 1631 / 245.1 /		NaOH+Ascorbic Acid: SAPC
li K Se Ag SiO <sub>2</sub> Na Sr Hg: 1631 / 245.1 /		Sample Comments
li K Se Ag SiO <sub>2</sub> Na Sr Hg: 1631/245.1/ Received by: (Signature)	<u> </u>	Email Analyticals
li K Se Ag SiO <sub>2</sub> Na Sr Hg: 1631/245.17	10,	0;
li K Se Ag SiO <sub>2</sub> Na Sr <sup>7</sup> Hg: 1631 / 245.1 / Received by: (Signature)	S	CT Brant apallo, com
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tiat	Se Ag SiO <sub>2</sub> Na Sr Hg: 1631 / 245.1	TI Sn U V Zn /7470 /7471
Date/Time Relinquished by: (Signature)	urofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions benses incurred by the client if such losses are due to circumstances beyond the control to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	
6/16/2/8.00	Relinquished by: (Signature)	Date/Fime
	16/2/8.00	
2 0	Date/Time	

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Chain of Custody

Date/Time

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

**Environment Testing** Xenco

: eurofins

Work Order No:

						www.xenco.com raye	5
Project Manager:	David AdKins		Bill to: (if different)		Plains All America	Work Order Comments	
Company Name:			Company Name			Program: UST/PST   PRP   Brownfields   RRC	RRC Superfund ☐
	408 Trxas 57			7	Atto. Can. Me Round	State of Project:	
ZIP:	1 .		City, State ZIP:		1	Reporting: Level III Level III PST/UST TRRP Level IV	TRRP   Level IV
	1-4835	Email:	Jackin	4 00 2	dad Kins @ talon lpc.com	Deliverables: EDD	Other:
Project Name:	65 Caylor	Tum A	Turn Around		ANALYSIS REQUEST		Preservative Codes
Project Number:	2-9	Routine	Rush	Pres. Code		None: NO	DI Water: H <sub>2</sub> O
Project Location:		Due Date:				Cool: Cool	MeOH: Me
	Je nes C	TAT starts the o	TAT starts the day received by			HCL: HC	HNO 3: HN
PO #: 5R	4 2001-10250	the lab, if recei	ved by 4:30pm	5	97	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice:	Yes No	eter	CO	H <sub>3</sub> PO <sub>4</sub> : HP	0
Samples Received Intact:	Yes No Thermometer ID:	:QI		mei	8	NaHSO 4: NABIS	NABIS
Cooler Custody Seals:	Yes No N/A Correction Factor	ton-Tics T	Dast	ed		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : Na <sub>5</sub> O <sub>3</sub>	NaSO 3
Sample Custody Seals:	Yes N/A Temperature Reading	Reaching:				Zn Acetate	Zn Acetate+NaOH: Zn
Total Containers:	Corrected Temperature:	nperature:			7.1	NaOH+Ascc	NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix Sampled	Time	Depth Grab/	# of Cont	· &	Samp	Sample Comments
MW-21	Gw 6/14/2)	2:30	W/A	3 x		EME	Drocktitick
MW-20		2:30	)	/ /		10,	
NW-18A		oh:C	(			C584	CJ Bry , to poulo con
						ALGra	ALGraves & peculo, con
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Total 200.7 / 6010	Total 200.7 / 6010 200.8 / 6020: 8RC Circle Method(s) and Metal(s) to be analyzed	BRCRA 13PPM TCLP / SPLP	Texas 11 6010 : 8F	Al Sb A	A 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo N TCIP/SPIP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Zn ICRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631/245.1/7470 /7471	V Zn 7471
	111111111111111111111111111111111111111						

of Eurofins Xenco. A minimum charge of \$85,00 will be applited to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negoclated. botice. Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control

Received by: (Signature) Relinquished by: (Signature) 8 Date/Time 149119 Received by: (Signature) Relinquished by: (Signature)

## **Login Sample Receipt Checklist**

Client: Talon/LPE

Job Number: 890-816-1

SDG Number: Lovington NM

Login Number: 816 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Job Number: 890-816-1

## **Login Sample Receipt Checklist**

Client: Talon/LPE SDG Number: Lovington NM

List Source: Eurofins Xenco, Midland Login Number: 816 List Number: 2 List Creation: 06/17/21 12:04 PM

Creator: Copeland, Tatiana

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

<6mm (1/4").



# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1264-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: C.S. Caylor (Caylor)

For:

Talon/LPE 408 W. Texas St. Artesia, New Mexico 88210

Attn: David Adkins

Holly Taylor

Authorized for release by: 9/24/2021 9:51:40 AM Holly Taylor, Project Manager holly.taylor@eurofinset.com

Designee for

Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

**Have a Question?** 

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Released to Imaging: 8/3/2022 7:37:10 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Laboratory Job ID: 890-1264-1
SDG: Lea County NM

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## **Definitions/Glossary**

Client: Talon/LPE Job ID: 890-1264-1 Project/Site: C.S. Caylor (Caylor) SDG: Lea County NM

## **Qualifiers**

GC VOA	
Qualifier	

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Giossaiy	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

Negative / Absent NEG POS Positive / Present PQL **Practical Quantitation Limit** 

**PRES** Presumptive

QC **Quality Control** 

**RER** Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

Relative Percent Difference, a measure of the relative difference between two points **RPD** 

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

**TNTC** Too Numerous To Count

## **Case Narrative**

Client: Talon/LPE

Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1

SDG: Lea County NM

Job ID: 890-1264-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1264-1

### Comments

No additional comments.

## Receipt

The samples were received on 9/16/2021 3:24 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0° C.

Method 8021B: 1,4-Difluorobenzene Surrogate recovery for the following samples were outside control limits: MW-8A (890-1264-2), MW-14A (890-1264-6), MW-17A (890-1264-9) and MW-18A (890-1264-10). Evidence of matrix interferences is not obvious.

Method 8021B: 1,4-Difluorobenzene recovery for the following samples were outside the upper control limit: (LCS 880-8163/52), (LCSD 880-8163/53), (MB 880-8138/5-A), (890-1276-H-1 MS) and (890-1276-H-1 MSD). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 880-8163 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-8163/52), (LCSD 880-8163/53), (MB 880-8138/5-A), (890-1276-H-1 MS) and (890-1276-H-1 MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## **VOA Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 890-1264-1

Client: Talon/LPE Project/Site: C.S. Caylor (Caylor) SDG: Lea County NM

Client Sample ID: MW-6A Lab Sample ID: 890-1264-1 Date Collected: 09/15/21 12:00 **Matrix: Water** Date Received: 09/16/21 15:24

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00215		0.00200	0.000408	mg/L			09/20/21 20:04	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/20/21 20:04	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 20:04	1
m-Xylene & p-Xylene	0.000702	J	0.00400	0.000629	mg/L			09/20/21 20:04	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/20/21 20:04	1
Xylenes, Total	0.000702	J	0.00400	0.000642	mg/L			09/20/21 20:04	1
Total BTEX	0.00285	J	0.00400	0.000657	mg/L			09/20/21 20:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			-		09/20/21 20:04	1
1,4-Difluorobenzene (Surr)	92		70 - 130					09/20/21 20:04	1

Lab Sample ID: 890-1264-2 **Client Sample ID: MW-8A** Date Collected: 09/15/21 13:10 **Matrix: Water** 

Date Received: 09/16/21 15:24 Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.488	*1	0.0400	0.00816	mg/L			09/22/21 16:15	20
Toluene	0.202		0.00200	0.000367	mg/L			09/20/21 20:31	1
Ethylbenzene	0.00982		0.00200	0.000657	mg/L			09/20/21 20:31	1
m-Xylene & p-Xylene	0.108		0.00400	0.000629	mg/L			09/20/21 20:31	1
o-Xylene	0.0899		0.00200	0.000642	mg/L			09/20/21 20:31	1
Xylenes, Total	0.198		0.00400	0.000642	mg/L			09/20/21 20:31	1
Total BTEX	0.975		0.0800	0.0131	mg/L			09/22/21 16:15	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			•		09/20/21 20:31	1

Client Sample ID: MW-9A Lab Sample ID: 890-1264-3 Date Collected: 09/15/21 11:18 **Matrix: Water** 

70 - 130

134 S1+

Date Received: 09/16/21 15:24

Released to Imaging: 8/3/2022 7:37:10 AM

Sample Depth: N/A

1,4-Difluorobenzene (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00747		0.00200	0.000408	mg/L			09/20/21 20:59	1
Toluene	0.00343		0.00200	0.000367	mg/L			09/20/21 20:59	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 20:59	1
m-Xylene & p-Xylene	0.00251	J	0.00400	0.000629	mg/L			09/20/21 20:59	1
o-Xylene	0.00179	J	0.00200	0.000642	mg/L			09/20/21 20:59	1
Xylenes, Total	0.00430		0.00400	0.000642	mg/L			09/20/21 20:59	1
Total BTEX	0.0152		0.00400	0.000657	mg/L			09/20/21 20:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130					09/20/21 20:59	1
1,4-Difluorobenzene (Surr)	83		70 - 130					09/20/21 20:59	1

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09/20/21 20:31

**Matrix: Water** 

**Matrix: Water** 

Lab Sample ID: 890-1264-4

Lab Sample ID: 890-1264-5

Lab Sample ID: 890-1264-6

Client: Talon/LPE

Job ID: 890-1264-1

Project/Site: C.S. Caylor (Caylor)

SDG: Lea County NM

Client Sample ID: MW-10A

Date Collected: 09/15/21 10:50 Date Received: 09/16/21 15:24

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00146	J	0.00200	0.000408	mg/L			09/20/21 21:27	1
Toluene	0.000720	J	0.00200	0.000367	mg/L			09/20/21 21:27	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 21:27	1
m-Xylene & p-Xylene	0.000819	J	0.00400	0.000629	mg/L			09/20/21 21:27	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/20/21 21:27	1
Xylenes, Total	0.000819	J	0.00400	0.000642	mg/L			09/20/21 21:27	1
Total BTEX	0.00300	J	0.00400	0.000657	mg/L			09/20/21 21:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			-		09/20/21 21:27	1
1,4-Difluorobenzene (Surr)	96		70 - 130					09/20/21 21:27	1

Client Sample ID: MW-13A

Date Collected: 09/15/21 12:50 Date Received: 09/16/21 15:24

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/20/21 21:55	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/20/21 21:55	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 21:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/20/21 21:55	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/20/21 21:55	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/20/21 21:55	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/20/21 21:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130					09/20/21 21:55	1
1,4-Difluorobenzene (Surr)	93		70 - 130					09/20/21 21:55	1

Client Sample ID: MW-14A Date Collected: 09/15/21 13:20 Date Received: 09/16/21 15:24

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/20/21 22:21	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/20/21 22:21	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 22:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/20/21 22:21	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/20/21 22:21	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/20/21 22:21	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/20/21 22:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130					09/20/21 22:21	1
1,4-Difluorobenzene (Surr)	87		70 - 130					09/20/21 22:21	1

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13

Matrix: Water

**Matrix: Water** 

Lab Sample ID: 890-1264-7

Job ID: 890-1264-1

Client: Talon/LPE Project/Site: C.S. Caylor (Caylor) SDG: Lea County NM

Client Sample ID: MW-15A Date Collected: 09/15/21 12:45

Date Received: 09/16/21 15:24

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/20/21 22:47	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/20/21 22:47	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 22:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/20/21 22:47	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/20/21 22:47	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/20/21 22:47	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/20/21 22:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			-		09/20/21 22:47	1
1,4-Difluorobenzene (Surr)	116		70 - 130					09/20/21 22:47	1

Lab Sample ID: 890-1264-8 **Client Sample ID: MW-16A** Date Collected: 09/15/21 12:50 **Matrix: Water** Date Received: 09/16/21 15:24

Sample Depth: N/A

Method: 8021B - Volatile	Organic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/20/21 23:12	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/20/21 23:12	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 23:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/20/21 23:12	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/20/21 23:12	1
Xylenes, Total	< 0.00400	U	0.00400	0.000642	mg/L			09/20/21 23:12	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/20/21 23:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130		09/20/21 23:12	1
1,4-Difluorobenzene (Surr)	120		70 - 130		09/20/21 23:12	1

**Client Sample ID: MW-17A** Lab Sample ID: 890-1264-9 Date Collected: 09/15/21 15:08 **Matrix: Water** 

Date Received: 09/16/21 15:24

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/20/21 23:38	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/20/21 23:38	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 23:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/20/21 23:38	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/20/21 23:38	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/20/21 23:38	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/20/21 23:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130					09/20/21 23:38	1
1,4-Difluorobenzene (Surr)	131	S1+	70 - 130					09/20/21 23:38	1

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**Matrix: Water** 

Lab Sample ID: 890-1264-10

Job ID: 890-1264-1 Project/Site: C.S. Caylor (Caylor) SDG: Lea County NM

Client Sample ID: MW-18A

Date Collected: 09/15/21 14:50 Date Received: 09/16/21 15:24

Sample Depth: N/A

Client: Talon/LPE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/21/21 01:45	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/21/21 01:45	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/21/21 01:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/21/21 01:45	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/21/21 01:45	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/21/21 01:45	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/21/21 01:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			-		09/21/21 01:45	1
1,4-Difluorobenzene (Surr)	90		70 - 130					09/21/21 01:45	1

Lab Sample ID: 890-1264-11 **Client Sample ID: MW-20 Matrix: Water** 

Date Collected: 09/15/21 13:45 Date Received: 09/16/21 15:24

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0506		0.00200	0.000408	mg/L			09/21/21 02:11	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/21/21 02:11	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/21/21 02:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/21/21 02:11	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/21/21 02:11	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/21/21 02:11	1
Total BTEX	0.0506		0.00400	0.000657	mg/L			09/21/21 02:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			-		09/21/21 02:11	1
1,4-Difluorobenzene (Surr)	105		70 - 130					09/21/21 02:11	1

Client Sample ID: MW-21 Lab Sample ID: 890-1264-12 **Matrix: Water** 

Date Collected: 09/15/21 14:30 Date Received: 09/16/21 15:24

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000860	J	0.00200	0.000408	mg/L			09/21/21 02:37	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/21/21 02:37	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/21/21 02:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/21/21 02:37	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/21/21 02:37	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/21/21 02:37	1
Total BTEX	0.000860	J	0.00400	0.000657	mg/L			09/21/21 02:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130					09/21/21 02:37	1
1,4-Difluorobenzene (Surr)	111		70 - 130					09/21/21 02:37	1

## **Surrogate Summary**

Client: Talon/LPE Job ID: 890-1264-1 Project/Site: C.S. Caylor (Caylor) SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

**Matrix: Water** Prep Type: Total/NA

			Per
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1264-1	MW-6A	117	92
890-1264-1 MS	MW-6A	95	96
890-1264-1 MSD	MW-6A	95	100
890-1264-2	MW-8A	106	134 S1+
890-1264-3	MW-9A	105	83
890-1264-4	MW-10A	108	96
890-1264-5	MW-13A	109	93
890-1264-6	MW-14A	134 S1+	87
890-1264-7	MW-15A	128	116
890-1264-8	MW-16A	121	120
890-1264-9	MW-17A	124	131 S1+
890-1264-10	MW-18A	136 S1+	90
890-1264-11	MW-20	127	105
890-1264-12	MW-21	113	111
890-1276-H-1 MS	Matrix Spike	141 S1+	256 S1+
890-1276-H-1 MSD	Matrix Spike Duplicate	140 S1+	314 S1+
LCS 880-8153/3	Lab Control Sample	118	108
LCS 880-8163/52	Lab Control Sample	130	306 S1+
LCSD 880-8153/4	Lab Control Sample Dup	112	106
LCSD 880-8163/53	Lab Control Sample Dup	108	197 S1+
MB 880-8138/5-A	Method Blank	76	297 S1+
MB 880-8153/8	Method Blank	79	95
	Method Blank	93	336 S1+

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Client: Talon/LPE Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1

SDG: Lea County NM

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8138/5-A

**Matrix: Water** 

**Analysis Batch: 8163** 

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

Prep Batch: 8138

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L		09/20/21 13:54	09/22/21 03:49	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L		09/20/21 13:54	09/22/21 03:49	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L		09/20/21 13:54	09/22/21 03:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L		09/20/21 13:54	09/22/21 03:49	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L		09/20/21 13:54	09/22/21 03:49	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L		09/20/21 13:54	09/22/21 03:49	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L		09/20/21 13:54	09/22/21 03:49	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	76		70 - 130	09/20/21 13:54	09/22/21 03:49	
1,4-Difluorobenzene (Surr)	297	S1+	70 - 130	09/20/21 13:54	09/22/21 03:49	

Lab Sample ID: MB 880-8153/8

**Matrix: Water** 

**Analysis Batch: 8153** 

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/20/21 19:37	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/20/21 19:37	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 19:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/20/21 19:37	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/20/21 19:37	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/20/21 19:37	1
Total BTEX	<0.00400	U	0.00400	0.000657	ma/l			09/20/21 19:37	1

MB	MB
IVID	IVID

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79	70 - 130		09/20/21 19:37	1
1.4-Difluorobenzene (Surr)	95	70 - 130		09/20/21 19:37	1

Lab Sample ID: LCS 880-8153/3

**Matrix: Water** 

**Analysis Batch: 8153** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09903		mg/L		99	70 - 130	
Toluene	0.100	0.09893		mg/L		99	70 - 130	
Ethylbenzene	0.100	0.1024		mg/L		102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2291		mg/L		115	70 - 130	
o-Xylene	0.100	0.1101		mg/L		110	70 - 130	

LCS LCS	CS LC	S
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Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

## **QC Sample Results**

Client: Talon/LPE Job ID: 890-1264-1 Project/Site: C.S. Caylor (Caylor) SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-8153/4

**Matrix: Water Analysis Batch: 8153** 

**Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

•	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09618		mg/L		96	70 - 130	3	20
Toluene	0.100	0.1038		mg/L		104	70 - 130	5	20
Ethylbenzene	0.100	0.09945		mg/L		99	70 - 130	3	20
m-Xylene & p-Xylene	0.200	0.2232		mg/L		112	70 - 130	3	20
o-Xylene	0.100	0.1086		mg/L		109	70 - 130	1	20

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-1264-1 MS

**Matrix: Water** 

**Analysis Batch: 8153** 

Client Sample ID: MW-6A

**Prep Type: Total/NA** 

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.00215		0.100	0.07993		mg/L		78	70 - 130	
Toluene	<0.00200	U	0.100	0.08894		mg/L		89	70 - 130	
Ethylbenzene	<0.00200	U	0.100	0.08522		mg/L		85	70 - 130	
m-Xylene & p-Xylene	0.000702	J	0.200	0.1904		mg/L		95	70 - 130	
o-Xylene	<0.00200	U	0.100	0.09240		mg/L		92	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-1264-1 MSD

**Matrix: Water** 

**Analysis Batch: 8153** 

Client Sample ID: MW-6A Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.00215		0.100	0.08408		mg/L		82	70 - 130	5	25
Toluene	<0.00200	U	0.100	0.09524		mg/L		95	70 - 130	7	25
Ethylbenzene	<0.00200	U	0.100	0.09015		mg/L		90	70 - 130	6	25
m-Xylene & p-Xylene	0.000702	J	0.200	0.2024		mg/L		101	70 - 130	6	25
o-Xylene	<0.00200	U	0.100	0.09814		mg/L		98	70 - 130	6	25

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-8163/57

**Matrix: Water** 

**Analysis Batch: 8163** 

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/22/21 15:22	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/22/21 15:22	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/22/21 15:22	1

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Client: Talon/LPE

Job ID: 890-1264-1 Project/Site: C.S. Caylor (Caylor) SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-8163/57

**Matrix: Water** 

**Analysis Batch: 8163** 

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/22/21 15:22	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/22/21 15:22	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/22/21 15:22	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/22/21 15:22	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93	70 - 130		09/22/21 15:22	1
1,4-Difluorobenzene (Surr)	336 S1+	70 - 130		09/22/21 15:22	1

Lab Sample ID: LCS 880-8163/52 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 8163** 

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1244		mg/L	_	124	70 - 130	
Toluene	0.100	0.1124		mg/L		112	70 - 130	
Ethylbenzene	0.100	0.1081		mg/L		108	70 - 130	
m-Xylene & p-Xylene	0.200	0.2394		mg/L		120	70 - 130	
o-Xylene	0.100	0.1177		mg/L		118	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	130		70 - 130
1,4-Difluorobenzene (Surr)	306	S1+	70 - 130

Lab Sample ID: LCSD 880-8163/53

**Matrix: Water** 

**Analysis Batch: 8163** 

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09505	*1	mg/L		95	70 - 130	27	20
Toluene	0.100	0.1028		mg/L		103	70 - 130	9	20
Ethylbenzene	0.100	0.09797		mg/L		98	70 - 130	10	20
m-Xylene & p-Xylene	0.200	0.2135		mg/L		107	70 - 130	11	20
o-Xylene	0.100	0.1050		mg/L		105	70 - 130	11	20

LCSD LCSD

Surrogate	%Recovery Qualitier	Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1,4-Difluorobenzene (Surr)	197 S1+	70 - 130

Lab Sample ID: 890-1276-H-1 MS

**Matrix: Water** 

**Analysis Batch: 8163** 

Client Sar	mple ID: Matrix Spike
	Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U *1	0.100	0.1175		mg/L		118	70 - 130	
Toluene	0.000414	J F1	0.100	0.1269		mg/L		126	70 - 130	
Ethylbenzene	0.000933	J	0.100	0.1220		mg/L		121	70 - 130	
m-Xylene & p-Xylene	0.000868	JF1	0.200	0.2728	F1	mg/L		136	70 - 130	

## **QC Sample Results**

Client: Talon/LPE Job ID: 890-1264-1 Project/Site: C.S. Caylor (Caylor)

SDG: Lea County NM

**Prep Type: Total/NA** 

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

256 S1+

Lab Sample ID: 890-1276-H-1 MS Client Sample ID: Matrix Spike **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 8163** Spike MS MS %Rec. Sample Sample Analyte **Result Qualifier** Added Result Qualifier Unit %Rec Limits <0.00200 0.100 mg/L o-Xylene U F1 0.1313 F1 131 70 - 130 MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 141 S1+ 70 - 130

70 - 130

Lab Sample ID: 890-1276-H-1 MSD

**Matrix: Water** 

**Analysis Batch: 8163** 

1,4-Difluorobenzene (Surr)

, , , , , , , , , , , , , , , , , , , ,	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U *1	0.100	0.1227		mg/L		123	70 - 130	4	25
Toluene	0.000414	J F1	0.100	0.1359	F1	mg/L		135	70 - 130	7	25
Ethylbenzene	0.000933	J	0.100	0.1304		mg/L		129	70 - 130	7	25
m-Xylene & p-Xylene	0.000868	J F1	0.200	0.2913	F1	mg/L		145	70 - 130	7	25
o-Xylene	<0.00200	U F1	0.100	0.1392	F1	mg/L		139	70 - 130	6	25

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 140 S1+ 70 - 130 1,4-Difluorobenzene (Surr) 314 S1+ 70 - 130

Client Sample ID: Matrix Spike Duplicate

# **QC Association Summary**

Client: Talon/LPE

Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1 SDG: Lea County NM

## **GC VOA**

## Prep Batch: 8138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8138/5-A	Method Blank	Total/NA	Water	5035	

## **Analysis Batch: 8153**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1264-1	MW-6A	Total/NA	Water	8021B	
890-1264-2	MW-8A	Total/NA	Water	8021B	
890-1264-3	MW-9A	Total/NA	Water	8021B	
890-1264-4	MW-10A	Total/NA	Water	8021B	
890-1264-5	MW-13A	Total/NA	Water	8021B	
890-1264-6	MW-14A	Total/NA	Water	8021B	
890-1264-7	MW-15A	Total/NA	Water	8021B	
890-1264-8	MW-16A	Total/NA	Water	8021B	
890-1264-9	MW-17A	Total/NA	Water	8021B	
890-1264-10	MW-18A	Total/NA	Water	8021B	
890-1264-11	MW-20	Total/NA	Water	8021B	
890-1264-12	MW-21	Total/NA	Water	8021B	
MB 880-8153/8	Method Blank	Total/NA	Water	8021B	
LCS 880-8153/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-8153/4	Lab Control Sample Dup	Total/NA	Water	8021B	
890-1264-1 MS	MW-6A	Total/NA	Water	8021B	
890-1264-1 MSD	MW-6A	Total/NA	Water	8021B	

## **Analysis Batch: 8163**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1264-2	MW-8A	Total/NA	Water	8021B	
MB 880-8138/5-A	Method Blank	Total/NA	Water	8021B	8138
MB 880-8163/57	Method Blank	Total/NA	Water	8021B	
LCS 880-8163/52	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-8163/53	Lab Control Sample Dup	Total/NA	Water	8021B	
890-1276-H-1 MS	Matrix Spike	Total/NA	Water	8021B	
890-1276-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Job ID: 890-1264-1

SDG: Lea County NM

Client Sample ID: MW-6A

Project/Site: C.S. Caylor (Caylor)

Client: Talon/LPE

Date Collected: 09/15/21 12:00 Date Received: 09/16/21 15:24 Lab Sample ID: 890-1264-1

**Matrix: Water** 

**Matrix: Water** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/20/21 20:04	KL	XEN MID

Client Sample ID: MW-8A Lab Sample ID: 890-1264-2 Date Collected: 09/15/21 13:10 **Matrix: Water** 

Date Received: 09/16/21 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/20/21 20:31	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	8163	09/22/21 16:15	KL	XEN MID

Client Sample ID: MW-9A Lab Sample ID: 890-1264-3 Date Collected: 09/15/21 11:18 **Matrix: Water** 

Date Received: 09/16/21 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/20/21 20:59	KL	XEN MID

Client Sample ID: MW-10A Lab Sample ID: 890-1264-4

Date Collected: 09/15/21 10:50 Date Received: 09/16/21 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/20/21 21:27	KL	XEN MID

Client Sample ID: MW-13A Lab Sample ID: 890-1264-5 **Matrix: Water** 

Date Collected: 09/15/21 12:50 Date Received: 09/16/21 15:24

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B			5 mL	5 mL	8153	09/20/21 21:55	KL	XEN MID

Client Sample ID: MW-14A Lab Sample ID: 890-1264-6 **Matrix: Water** 

Date Collected: 09/15/21 13:20 Date Received: 09/16/21 15:24

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/20/21 22:21	KL	XEN MID

Client Sample ID: MW-15A Lab Sample ID: 890-1264-7

Date Collected: 09/15/21 12:45 Date Received: 09/16/21 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/20/21 22:47	KL	XEN MID

Eurofins Xenco, Carlsbad

**Matrix: Water** 

SDG: Lea County NM

Project/Site: C.S. Caylor (Caylor)

Client: Talon/LPE

Client Sample ID: MW-16A

Lab Sample ID: 890-1264-8

**Matrix: Water** 

**Matrix: Water** 

**Matrix: Water** 

Date Collected: 09/15/21 12:50 Date Received: 09/16/21 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/20/21 23:12	KL	XEN MID

Client Sample ID: MW-17A Lab Sample ID: 890-1264-9

Date Collected: 09/15/21 15:08 Date Received: 09/16/21 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8021B			5 mL	5 mL	8153	09/20/21 23:38	KL	XEN MID	_

Lab Sample ID: 890-1264-10 Client Sample ID: MW-18A

Date Collected: 09/15/21 14:50 Date Received: 09/16/21 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/21/21 01:45	KL	XEN MID

**Client Sample ID: MW-20** Lab Sample ID: 890-1264-11 **Matrix: Water** 

Date Collected: 09/15/21 13:45

Date Received: 09/16/21 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/21/21 02:11	KL	XEN MID

**Client Sample ID: MW-21** Lab Sample ID: 890-1264-12 **Matrix: Water** 

Date Collected: 09/15/21 14:30 Date Received: 09/16/21 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8021B			5 mL	5 mL	8153	09/21/21 02:37	KL	XEN MID	

**Laboratory References:** 

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# **Accreditation/Certification Summary**

Client: Talon/LPE Job ID: 890-1264-1 Project/Site: C.S. Caylor (Caylor) SDG: Lea County NM

## **Laboratory: Eurofins Xenco, Midland**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-21-22	06-30-22
The following analyte	s are included in this reno	rt but the laboratory is r	not certified by the governing authority	This list may include analytes for w
The following analyte the agency does not		rt, but the laboratory is r	not certified by the governing authority.	This list may include analytes for w
0 ,		rt, but the laboratory is r Matrix	not certified by the governing authority.  Analyte	This list may include analytes for w

## **Method Summary**

Client: Talon/LPE

Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1

SDG: Lea County NM

Protocol	Laboratory
CIMOAG	VENI MID

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
5030B	Purge and Trap	SW846	XEN MID

## **Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## **Laboratory References:**

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# **Sample Summary**

Client: Talon/LPE

Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1 SDG: Lea County NM

3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1264-1	MW-6A	Water	09/15/21 12:00	09/16/21 15:24	N/A
890-1264-2	MW-8A	Water	09/15/21 13:10	09/16/21 15:24	N/A
890-1264-3	MW-9A	Water	09/15/21 11:18	09/16/21 15:24	N/A
890-1264-4	MW-10A	Water	09/15/21 10:50	09/16/21 15:24	N/A
890-1264-5	MW-13A	Water	09/15/21 12:50	09/16/21 15:24	N/A
890-1264-6	MW-14A	Water	09/15/21 13:20	09/16/21 15:24	N/A
890-1264-7	MW-15A	Water	09/15/21 12:45	09/16/21 15:24	N/A
890-1264-8	MW-16A	Water	09/15/21 12:50	09/16/21 15:24	N/A
890-1264-9	MW-17A	Water	09/15/21 15:08	09/16/21 15:24	N/A
890-1264-10	MW-18A	Water	09/15/21 14:50	09/16/21 15:24	N/A
890-1264-11	MW-20	Water	09/15/21 13:45	09/16/21 15:24	N/A
890-1264-12	MW-21	Water	09/15/21 14:30	09/16/21 15:24	N/A

4

6

8

9

10

12

13

14

Mw- 10 A

MW-GA MW- 8A

HO-01

GW

9-15-21

13:000

N N

Grab

1:10%

11:18

10:50cm

Sample Identification

Matrix

Sampled

Sampled

Time

Depth

Comp Grab/

Cont

BTEX 8021B

890-1264 Chain of Custody

SAMPLE RECEIPT

Samples Received Intact:

No Sak

Sample Custody Seals:

Yes Yes

No NO (N/A

Correction Factor:

Thermometer ID: No Sex

MM\_SQH

Wet Ice:

S

**Parameters** 

Temperature Reading:

Corrected Temperature

0 . 7 Sampler's Name:

M.Collier/D.Winchell

Lea County, NM

Due Date:

✓ Routine

Rush

Pres.

Turn Around

TAT starts the day received by the lab, if received by 4:30pm

SRS # 2002-10250 Temp Blank:

Project Number Project Location:

Project Name:

C.S. Caylor (Caylor)

ity, State ZIP

575.746.8768 Artesia, NM 88210

Email: dadkins@talonlpe.com

City, State ZIP:

Mw- 13 A

WW. IH A

1:2000 17:50 pm

17:45 m 121502

MW- IT A

WW- IN A

MW - 18 A

Total 200.7 / 6010

200.8 / 6020:

1.50pm

3:08

NO- 15 A

13 14

eurofins

Project Manager: company Name:

Talon LPE D.Adkins

Company Name: Bill to: (if different)

ATTN: Camille Bryant Plains All American Pipeline

408 W. Texas Ave

Xenco **Environment Testing** 

# Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Work Order No:

Work Order Comments  Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐  State of Project:  Reporting: Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐  Deliverables: EDD ☐ ADaPT ☐ Other:  ANALYSIS REQUEST Preservative Codes			
Program: UST/PST   PRP   Brownfields   RRC   Superfund    State of Project:  Reporting: Level III   PST/UST   TRRP   Level IV    Deliverables: EDD   ADaPT   Other:  ANALYSIS REQUEST   Preservative Codes		Work Order Comments	
Reporting: Level III  PST/UST TRRP Level IV  Deliverables: EDD ADaPT Other:  ANALYSIS REQUEST Preservative Codes		Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐	Superfund [
Reporting: Level III		State of Project:	
rables: EDD		Reporting: Level II 🗌 Level III 🗎 PST/UST 🗍 TRRP [	] Level IV []
		ADaPT 🗆	
	ANALYSIS REQI		/e Codes

Revised Date: 08/25/2020 Rev. 2020.2	æ				
			6		5
			4	U	3
			9-16-21 1524	Clox (bul)	LINDING
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)
	rcumstances beyond the control forced unless previously negotiated.	curred by the client if such losses are due to c enco, but not analyzed. These terms will be en	ility for any losses or expenses inches to sample submitted to Eurofins Xo	of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the cilent if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	of service. Eurofins Xenco will be liable only fo of Eurofins Xenco. A minimum charge of \$85.0

votice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2

TGLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U

NaOH+Ascorbic Acid: SAPC

Sample Comments Email Analyticals to:

ALGroves@paalp.com CJBryant@paalp.com

Maocho@paalp.com

Zn Acetate+NaOH: Zn Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>: NaSO<sub>3</sub> NaHSO4: NABIS H<sub>3</sub>PO<sub>4</sub>: HP H<sub>2</sub>S0<sub>4</sub>: H<sub>2</sub> HCL: HC Cool: Cool None: NO

> MeOH: Me DI Water: H<sub>2</sub>O

HNO3: HN NaOH: Na

1631 / 245.1 / 7470 / 7471 Na Sr

TI Sn

U V Zn

Total

200.7 / 6010

200.8 / 6020

8RCRA

13PPM Texas 11 Al Sb As

MW- 21

MW- 70

GW

4-15-21

1.45gm Sampled

ΝA

Grab Comp Grab/

7:30m

Sample Identification

Matrix

Sampled

Depth

Cont # of

BTEX 8021B

Date

eurofins

Xenco

**Environment Testing** 

Phone:

575.746.8768 Artesia, NM 88210 408 W. Texas Ave.

C.S. Caylor (Caylor)

City, State ZIP

Address:

Project Manager:

Company Name:

Talon LPE D.Adkins

SAMPLE RECEIPT

Temp Blank: SRS # 2002-10250

Yes No

Wet Ice:

Yes

N<sub>O</sub>

**Parameters** 

Yes No No

Thermometer ID:

Samples Received Intact:

ooler Custody Seals:

Yes

N/A

Correction Factor Temperature Reading:

Corrected Temperature:

ample Custody Seals:

Sampler's Name:

M.Collier/D.Winchell

Lea County, NM

Due Date:

✓Routine

Rush

Pres.

ANALYSIS REQUEST

Turn Around

dadkins@talonlpe.com

City, State ZIP:

Company Name: Bill to: (if different)

SRS # 2002-10250 ATTN: Camille Bryant Plains All American Pipeline

TAT starts the day received by the lab, if received by 4:30pm

H<sub>2</sub>S0<sub>4</sub>: H<sub>2</sub> HCL: HC

Cool: Coo None: NO

MeOH: Me DI Water: H<sub>2</sub>O

HNO3: HN NaOH: Na

Preservative Codes

H<sub>3</sub>PO<sub>4</sub>: HP

NaHSO<sub>4</sub>: NABIS

Project Location:

Project Number: Project Name:

121314

# Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

ARCIN CIDEL NO.	
www.xenco.com Page 2 of 2	
Work Order Comments	
Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ADaDT Other	

			e		5
			4	V	3
			9-16-21 15242	Cive Custo	MARCH
Date∕Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)
	nforced unless previously negotiated.	teurred by the client it such losses are que to c (enco, but not analyzed. These terms will be er	r each sample submitted to Eurofins )	of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client in such boses are use to charm the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated	of Eurofins Xenco. A minimum charge of \$85.0

Votice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U

Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2

Hg:

1631 / 245.1 / 7470 Na Sr TI Sn

U V Zn /7471

NaOH+Ascorbic Acid: SAPC

CJBryant@paalp.com ALGroves@paalp.com

Maocho@paalp.com

Email Analyticals to: Sample Comments Zn Acetate+NaOH: Zn Na2S2O3: NaSO3

Phone. 575-988-3199 Fax 575-988-3199

Carlsbad NM 88220 1089 N Canal St

**Eurofins Xenco, Carlsbad** 

13 14

# Chain of Custody Record

eurofins :

Environment Testing

Sample Identification - Client ID (Lab ID) State, Zip: TX 79701 MW-17A (890-1264-9) MW-16A (890-1264-8) MW-15A (890-1264-7) C S Caylor (Caylor) MW-14A (890-1264-6) MW-13A (890-1264-5) MW-9A (890-1264-3) MW-6A (890-1264-1) Midland ossible Hazard Identification lote: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently rainfain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC. WW-10A (890-1264-4) /W-8A (890-1264-2) 132-704-5440(Tel) 1211 W Florida Ave Shipping/Receiving Client Information mpty Kit Relinquished by eliverable Requested I II III IV urofins Xenco linquished by: Custody Seals Intact: linquished by nconfirmed linquished by \$ (Sub Contract Lab) Custody Seal No 3 Other (specify) Q · Phone Date/Time Primary Deliverable Rank WO# PO#: TAT Requested (days). 9/22/2021 Due Date Requested 89000047 Date/Time Sample Date roject #: 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 Mountain 11 18 Date Mountain 15 08 Mountain 12 50 Mountain 12 45 Mountain 13 20 Mountain 10 50 Mountain 13 10 Mountain 12 50 12 00 (C=comp, G=grab) Sample Preservation Code: Type Company Company BT=Tissue, A=A Company Water Water Matrix Water Water Water Water Water Water Water Kramer E-Mail essica.kramer@eurofinset.com ime Field Filtered Sample (Yes or No) NELAP - Texas ccreditations Required (See note): Perform MS/MSD (Yes or No) Jessica Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Received by × × × × × × ×  $\times$ × 8021B/5030B BTEX Cooler Temperature(s) °C and Other Remarks Return To Client Analysis Requested Disposal By Lab State of Origin New Mexico Carrier Tracking No(s) Method of Shipment Archive For (i) Total Number of containers (i) (C) (S w w (4) Č. C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid J DI Water K - EDTA L EDA Page: Page 1 of 2 COC No 890-411 1 Preservation Codes 890-1264-1 NaOH 둰 Special Instructions/Note W - pH 4-5 Z other (specify) - ωποποz Ξ Company M Hexane
N None
N None
Na204S
Na204S
Na2503
Na25203
Na25203
Na25203
Na25204
Na25204 Acetone MCAA Months

Ver: 06/08/2021

Chain of Custody Record	
<b>**</b> eurofins Environment Testing America	

Eurofins Xenco, Carlsbad  1089 N Canal St Carlsbad NM 88220 Phone 575-988-3199 Fax. 575-988-3199  Client Information (Sub Contract Lab) Client Contact Shipping/Receiving Company Eurofins Xenco Address 1211 W Florida Ave City Midland State Zip TX 79701 Phone: 432-704-5440(Tel) Email  Project Name C S Caylor (Caylor) Site  Sample Identification - Client ID (Lab ID)  MWV-18A (890-1264-10)  MWV-20 (890-1264-11)  MWV-21 (890-1264-12)	Sampler Phone Phone Project # 89000047 SSOW# SSOW#  SSOW#  9/15/21 MG 9/15/21 MG 9/15/21 MG	hain of hain of 14 50 14 50 Mountain 14 30 Mountain 14 30 Mountain	Freservation Code:  Voter  Voter	ILED PM Kramer E-Mail Jessica Ac Numeror Secold Owneror Secold Own	Record  Record  Feld Filtered Sample (Yes or No)  Perform MS/MSD (Yes or No)  Perform MS/MSD (Yes or No)  Arabi)  Resided Filtered Sample (Yes or No)  Accreditations Required (See not NELAP - Texas  An  An  An  An  An  An  An  An  An  A	eurofinse Required (a	Analysis		Carrier Tracking State of Origin New Mexico	Carrier Tracking No(s) State of Origin New Mexico	Total Control	ω ω ω Total Number of containers	COC No 890-411 2 Page Page 2 of 2 Job # Reservation Codes A NOOH B NOOH	Environment Testing America  2 of 2  2 of 2  264-1  Vation Codes  No. None Acetate O AsNaO2 ic Acid P Na2O45 ic Acid P Na2SO3 OH R Na2SO3 OH R Na2SO3 OH R Na2SO3 OH A NACHONE Vater V MCAA TA Z other (specify)  Special Instructions/Note:
	$\setminus$	1	of L	ende	X		2504			200	1	X.	opeoidi III	Su detional Note:
MW-18A (890-1264-10)				Water	×						7	ယ		The second secon
MVV-20 (890-1264-11)		13 45 Mountain	_	Water	×	1			_			w		
MW-21 (890-1264-12)		14 30 Mountain		Water	×							6		
Note Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC.	laces the ownership o eing analyzed the sar	f method analyt	e & accreditation ipped back to the said complicance	n compliance he Eurofins X	upon out sul	contract lat	oratories.	his sample	shipment	is forwarde Any chang	d under ch	ain-of-cu	istody If the laborate status should be brou	ory does not currently ught to Eurofins Xenco LLC
Possible Hazard Identification Unconfirmed					Sample	Sample Disposal ( A 1	I (A fee I	nay be a	ssessec	if samp	les are r	etaine	ee may be assessed if samples are retained longer than 1 month)	month)
Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank	ble Rank 2			Special	Special Instructions/QC	ns/QC Re	Requirements	ents	у Εαυ		Aicii	AICHIVE FOI	WORTES
Empty Kit Relinquished by:		Date			Time				Met	Method of Shipment:	ment:			1000000
Relinquished by Cult Gf 9.17.21	Date/Time Date/Time.		Con Con	Company	Received	Received by						12	11 00	Someony (CO)
Relinquished by	Date∕Time		Con	Company	Rece	Received by:	•			Da	Date/Time			Company
Custody Seals Intact: Custody Seal No					Cool	Cooler Temperature(s)	റ്	and Other Remarks.	marks.			l		

Ver. 06/08/2021

#### **Login Sample Receipt Checklist**

Client: Talon/LPE

Job Number: 890-1264-1

SDG Number: Lea County NM

List Source: Eurofins Xenco, Carlsbad

Login Number: 1264 List Number: 1 Creator: Clifton, Cloe

<6mm (1/4").

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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#### **Login Sample Receipt Checklist**

Client: Talon/LPE

Job Number: 890-1264-1

SDG Number: Lea County NM

List Number: 1264
List Number: 2
List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 09/18/21 01:37 PM

Creator: Lowe, Katie

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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IR

### **Environment Testing America**

#### **ANALYTICAL REPORT**

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1343-1

Laboratory Sample Delivery Group: Lea County

Client Project/Site: CS CAYLOR

For:

Talon/LPE 408 W. Texas St. Artesia, New Mexico 88210

Attn: David Adkins

JURAMER

Authorized for release by: 10/7/2021 10:00:15 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS .....

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 8/3/2022 7:37:10 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

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0

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1 1

12

Client: Talon/LPE Laboratory Job ID: 890-1343-1
Project/Site: CS CAYLOR SDG: Lea County

#### **Table of Contents**

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Surrogate Summary	6
QC Sample Results	7
QC Association Summary	9
Lab Chronicle	10
Certification Summary	11
Method Summary	12
Sample Summary	13
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#### **Definitions/Glossary**

Client: Talon/LPE Job ID: 890-1343-1 Project/Site: CS CAYLOR SDG: Lea County

**Qualifiers** 

**GC VOA** 

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown) NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

**PRES** Presumptive

QC **Quality Control** RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points **RPD** 

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin) **TNTC** Too Numerous To Count

#### **Case Narrative**

Client: Talon/LPE Job ID: 890-1343-1 Project/Site: CS CAYLOR SDG: Lea County

Job ID: 890-1343-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1343-1

#### Receipt

The sample was received on 9/30/2021 2:57 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C

#### **GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 880-8777 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **Client Sample Results**

Client: Talon/LPE Job ID: 890-1343-1 Project/Site: CS CAYLOR SDG: Lea County

Client Sample ID: MW-11A

Date Received: 09/30/21 14:57

**Total BTEX** 

Lab Sample ID: 890-1343-1 Date Collected: 09/30/21 08:30

Matrix: Water

10/05/21 09:19

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00483		0.00200	0.000408	mg/L			10/04/21 13:56	1
Toluene	0.000518	J	0.00200	0.000367	mg/L			10/04/21 13:56	1
Ethylbenzene	0.000787	J	0.00200	0.000657	mg/L			10/04/21 13:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			10/04/21 13:56	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			10/04/21 13:56	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			10/04/21 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130			_		10/04/21 13:56	1
1,4-Difluorobenzene (Surr)	102		70 - 130					10/04/21 13:56	1

0.00200

0.00100 mg/L

0.00614

#### **Surrogate Summary**

Client: Talon/LPE Job ID: 890-1343-1 Project/Site: CS CAYLOR SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water Prep Type: Total/NA

				Percent Surrogate Reco
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1342-A-1 MS	Matrix Spike	122	106	
890-1342-A-1 MSD	Matrix Spike Duplicate	118	103	
890-1343-1	MW-11A	142 S1+	102	
LCS 880-8777/3	Lab Control Sample	118	101	
LCSD 880-8777/4	Lab Control Sample Dup	116	84	
MB 880-8777/8	Method Blank	72	10 S1-	
Surrogate Legend				
BFB = 4-Bromofluorobenzene	e (Surr)			
DFBZ = 1,4-Difluorobenzene	(Surr)			

Client: Talon/LPE Job ID: 890-1343-1 Project/Site: CS CAYLOR SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8777/8

**Matrix: Water Analysis Batch: 8777**  Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			10/04/21 12:35	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			10/04/21 12:35	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			10/04/21 12:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			10/04/21 12:35	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			10/04/21 12:35	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			10/04/21 12:35	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72	70 - 130		10/04/21 12:35	1
1,4-Difluorobenzene (Surr)	10 S1-	70 - 130		10/04/21 12:35	1

Lab Sample ID: LCS 880-8777/3

**Matrix: Water** 

**Analysis Batch: 8777** 

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Spike LCS LCS %Rec. Added Result Qualifier Unit %Rec Limits 0.100 0.09934 mg/L 99 70 - 130 0.100 0.1061 mg/L 106 70 - 130 0.100 0.1006 101 70 - 130 mg/L 0.200 0.2191 110 70 - 130 mg/L 0.100 0.1080 108 70 - 130 mg/L

LCS LCS

Surrogate	%Recovery Qualifi	er Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-8777/4

**Matrix: Water** 

**Analysis Batch: 8777** 

<b>Client Sample ID:</b>	Lab Control Sample Dup
	Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08411		mg/L		84	70 - 130	17	20
Toluene	0.100	0.09684		mg/L		97	70 - 130	9	20
Ethylbenzene	0.100	0.09010		mg/L		90	70 - 130	11	20
m-Xylene & p-Xylene	0.200	0.1935		mg/L		97	70 - 130	12	20
o-Xylene	0.100	0.09646		mg/L		96	70 - 130	11	20

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: 890-1342-A-1 MS

**Matrix: Water** 

**Analysis Batch: 8777** 

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00200	U	0.100	0.1109		mg/L		111	70 - 130
Toluene	<0.00200	U	0.100	0.1194		mg/L		119	70 - 130

Eurofins Xenco, Carlsbad

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Page 7 of 16

#### **QC Sample Results**

Client: Talon/LPE Job ID: 890-1343-1 Project/Site: CS CAYLOR SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1342-A-1 MS

**Matrix: Water** 

**Analysis Batch: 8777** 

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00200 U 0.100 0.1132 113 70 - 130 mg/L m-Xylene & p-Xylene <0.00400 U 0.200 0.2468 mg/L 123 70 - 130 <0.00200 U 0.100 o-Xylene 0.1218 mg/L 122 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

**Client Sample ID: Matrix Spike Duplicate** 

Prep Type: Total/NA

**Analysis Batch: 8777** 

**Matrix: Water** 

Lab Sample ID: 890-1342-A-1 MSD

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.1151		mg/L		115	70 - 130	4	25
Toluene	<0.00200	U	0.100	0.1264		mg/L		126	70 - 130	6	25
Ethylbenzene	<0.00200	U	0.100	0.1189		mg/L		119	70 - 130	5	25
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2579		mg/L		129	70 - 130	4	25
o-Xylene	<0.00200	U	0.100	0.1285		mg/L		129	70 - 130	5	25

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

#### **QC Association Summary**

Client: Talon/LPE Job ID: 890-1343-1
Project/Site: CS CAYLOR SDG: Lea County

#### **GC VOA**

#### **Analysis Batch: 8777**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1343-1	MW-11A	Total/NA	Water	8021B	_
MB 880-8777/8	Method Blank	Total/NA	Water	8021B	
LCS 880-8777/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-8777/4	Lab Control Sample Dup	Total/NA	Water	8021B	
890-1342-A-1 MS	Matrix Spike	Total/NA	Water	8021B	
890-1342-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

#### Analysis Batch: 8887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1343-1	MW-11A	Total/NA	Water	Total BTEX	

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#### **Lab Chronicle**

Client: Talon/LPE Job ID: 890-1343-1 Project/Site: CS CAYLOR SDG: Lea County

Client Sample ID: MW-11A

Lab Sample ID: 890-1343-1 Date Collected: 09/30/21 08:30

Matrix: Water

Date Received: 09/30/21 14:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8777	10/04/21 13:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8887	10/05/21 09:19	MR	XEN MID

#### **Laboratory References:**

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

#### **Accreditation/Certification Summary**

Client: Talon/LPE Job ID: 890-1343-1
Project/Site: CS CAYLOR SDG: Lea County

#### **Laboratory: Eurofins Xenco, Midland**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-21-22	06-30-22	
The following analytes are incl the agency does not offer certi		it the laboratory is not certilit	su by the governing authority. This list the	ay include analytes to	
0 ,		it the laboratory is not certific	ed by the governing authority. This list ma	ay include analytes to	
0 ,		Matrix	Analyte	ay include analytes to	

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#### **Method Summary**

Job ID: 890-1343-1 Client: Talon/LPE Project/Site: CS CAYLOR

SDG: Lea County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
5030B	Purge and Trap	SW846	XEN MID

#### **Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

#### Sample Summary

Client: Talon/LPE Job ID: 890-1343-1
Project/Site: CS CAYLOR SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1343-1	MW-11A	Water	09/30/21 08:30	09/30/21 14:57

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Sirele Method(s) and Metal(s) to be analyzed

Total 200.7 / 6010

200.8 / 6020:

8RCRA 13F

TCLP / SI

otice: Signature of this document and relinquishment of samples constitutes a valid

service. Eurofins Xenco will be liable only for the cost of samples and shall not ass

Relinquished by: (Signature)

Received by: (Signature)

9.3021 145H

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Project Manager:

David

Adkins

Bill to: (if different)

Plains,

American

Company Name:

alon

Xenco **Environment Testing** 

## Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Work Order No:

www.xenco.com

Page

Work Order Comments

Company Name:	Pipe line	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐
Address:	Atto: Camille Bryant	
City, State ZIP:	SRS# 2002-10250	Reporting: Level II  Level III PST/UST  TRRP L Level IVL
dadkins	@ taken loe, com	Deliverables: EDD ADAPT Other:
Around	ANALYSIS REQUEST	QUEST Preservative Codes
Rush Code		None: NO DI Water: H <sub>2</sub> O
		<u>u</u>
ne day received by ceived by 4:30pm		H <sub>2</sub> SO <sub>2</sub> : H <sub>2</sub> NaOH: Na
YPS NO Peters		U
7 3		NaHSO <sub>4</sub> : NABIS
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>
	890-1343 Chain of Custody	
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Depth Grab/ # of	BI	Sample Comments
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PM Texas 11 Al	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni	b Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Zn
6010: 8RC	Sb As Ba Be C	o Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471
purchase order from clie	purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigna standard terms and conditions name any reaponatibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control	rs. It assigns standard terms and conditions sare due to circumstances beyond the control
charge of \$5 for each sar	charge of \$5 for each sample submitted to Eurolins Xenco, but not analyzed. These terms will be emorced unless previously inglicians	
ature)	Date/Time Relinquished by: (Signature)	ature) Received by: (Signature) Date/Time

SAMPLE RECEIPT

Temp Blank: Yes No

Thermometer ID:

8 N

Wet ice:

the lab, if re

Sampler's Name:

Rox 15011 SRS# 2002-10250

roject Location:

Cownty

Due Date TAT starts the

Routine

Cooler Custody Seals:

Yes No (N/A) Yes No

(X)

Corrected Temperature Temperature Reading Correction Factor:

ample Custody Seals:

Sample Identification

Matrix

Sampled

Sampled

Date

Time

GW 9/30/21 8:30

Samples Received Intact:

Project Number:

Project Name:

Caylor

City, State ZIP

Artesia, NM

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Texas LPE

75-441-4835

Email

ddress:

Revsed Date: 08/25/2020 Rev. 2020.2

#### **Login Sample Receipt Checklist**

Client: Talon/LPE Job Number: 890-1343-1 SDG Number: Lea County

Login Number: 1343 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question Answer Comment

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate

HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

Containers requiring zero headspace have no headspace or bubble is

<6mm (1/4").

Released to Imaging: 8/3/2022 7:37:10 AM

#### **Login Sample Receipt Checklist**

Client: Talon/LPE

Job Number: 890-1343-1

SDG Number: Lea County

List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 10/04/21 03:44 PM

Creator: Lowe, Katie

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <a href="fig86">&lt;6mm (1/4").</a>	True	

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## **Environment Testing America**

#### **ANALYTICAL REPORT**

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1712-1

Laboratory Sample Delivery Group: Lea County

Client Project/Site: CS Caylor

For:

Talon/LPE 408 W. Texas St. Artesia, New Mexico 88210

Attn: David Adkins

MRAMER

Authorized for release by: 12/21/2021 6:34:08 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS .....

Review your project results through

**Have a Question?** 



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 8/3/2022 7:37:10 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Talon/LPE
Project/Site: CS Caylor

Laboratory Job ID: 890-1712-1
SDG: Lea County

#### **Table of Contents**

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#### **Definitions/Glossary**

Client: Talon/LPE Job ID: 890-1712-1
Project/Site: CS Caylor SDG: Lea County

**Qualifiers** 

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	1.7	`\/	"	Δ
v	J	v	v	_

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
MI	Minimum Loyal (Diavin)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present
PQL Practical Quantitation Limit

PRES Presumptive

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

#### **Case Narrative**

Client: Talon/LPE Job ID: 890-1712-1 Project/Site: CS Caylor SDG: Lea County

Job ID: 890-1712-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1712-1

#### Receipt

The samples were received on 12/14/2021 1:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.0°C

#### **GC VOA**

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-14907/8). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 880-14907 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Talon/LPE Job ID: 890-1712-1 Project/Site: CS Caylor SDG: Lea County

Client Sample ID: MW-20

Lab Sample ID: 890-1712-1 Date Collected: 12/14/21 08:00

Matrix: Water

Date Received: 12/14/21 13:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0991	F1	0.00200	0.000408	mg/L			12/16/21 12:51	1
Toluene	0.00104	J	0.00200	0.000367	mg/L			12/16/21 12:51	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 12:51	1
m-Xylene & p-Xylene	0.000979	J	0.00400	0.000629	mg/L			12/16/21 12:51	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 12:51	1
Xylenes, Total	0.000979	J	0.00400	0.000642	mg/L			12/16/21 12:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			-		12/16/21 12:51	1
1,4-Difluorobenzene (Surr)	87		70 - 130					12/16/21 12:51	1
- Method: Total BTEX - Total B1	TEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.101		0.00400	0.000657	mg/L			12/21/21 14:36	1

**Client Sample ID: MW-17A** Lab Sample ID: 890-1712-2

Date Collected: 12/14/21 08:30 **Matrix: Water** 

Date Received: 12/14/21 13:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 13:18	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 13:18	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 13:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 13:18	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 13:18	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 13:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			_		12/16/21 13:18	1
1,4-Difluorobenzene (Surr)	96		70 - 130					12/16/21 13:18	1
- Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	П	0.00400	0.000657	mg/L			12/21/21 14:36	1

Client Sample ID: MW-16A Lab Sample ID: 890-1712-3 Date Collected: 12/14/21 09:00 **Matrix: Water** 

Date Received: 12/14/21 13:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 13:44	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 13:44	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 13:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 13:44	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 13:44	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			-		12/16/21 13:44	1
1,4-Difluorobenzene (Surr)	99		70 - 130					12/16/21 13:44	1

Job ID: 890-1712-1

Client: Talon/LPE Project/Site: CS Caylor SDG: Lea County

Client Sample ID: MW-16A

Date Collected: 12/14/21 09:00 Date Received: 12/14/21 13:45 Lab Sample ID: 890-1712-3

**Matrix: Water** 

Method: Total BTEX - Total BTEX Cal	culation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/21/21 14:36	1

Client Sample ID: MW-15A Lab Sample ID: 890-1712-4 Date Collected: 12/14/21 09:30 Matrix: Water

Date Received: 12/14/21 13:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 14:11	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 14:11	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 14:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 14:11	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 14:11	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 14:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			_		12/16/21 14:11	1
1,4-Difluorobenzene (Surr)	98		70 - 130					12/16/21 14:11	1

Method: Total BTEX - Total BTEX (	Salculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/21/21 14:36	1

Client Sample ID: MW-14A Lab Sample ID: 890-1712-5 Date Collected: 12/14/21 10:00 **Matrix: Water** 

Date Received: 12/14/21 13:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 14:37	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 14:37	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 14:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 14:37	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 14:37	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			-		12/16/21 14:37	1
1,4-Difluorobenzene (Surr)	94		70 - 130					12/16/21 14:37	1

Method: Total BTEX - Total BTEX Calc	ulation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/21/21 14:36	1

Client Sample ID: MW-13A Lab Sample ID: 890-1712-6 **Matrix: Water** 

Date Collected: 12/14/21 11:00 Date Received: 12/14/21 13:45

Method: 8021B - Volatile Organic	Compounds (	GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 15:03	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 15:03	1

Job ID: 890-1712-1

Client: Talon/LPE Project/Site: CS Caylor SDG: Lea County

Client Sample ID: MW-13A

Date Collected: 12/14/21 11:00 Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 15:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 15:03	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 15:03	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 15:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			-		12/16/21 15:03	1
1,4-Difluorobenzene (Surr)	95		70 - 130					12/16/21 15:03	1

12/21/21 14:36 Total BTEX <0.00400 U 0.00400 0.000657 mg/L Client Sample ID: MW-18A Lab Sample ID: 890-1712-7

RL

Result Qualifier

MDL Unit

D

Prepared

Date Collected: 12/14/21 11:30

Analyte

**Matrix: Water** 

Analyzed

Date Received: 12/14/21 13:45									
 Method: 8021B - Volatile Orga	nic Compounds (	(GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 15:30	
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 15:30	
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 15:30	
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 15:30	
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 15:30	
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 15:30	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	104		70 - 130			-		12/16/21 15:30	
1 4-Difluorobenzene (Surr)	98		70 - 130					12/16/21 15:30	

Method: Total BTEX - Total BTEX (	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/21/21 14:36	1

Client Sample ID: MW-21 Lab Sample ID: 890-1712-8 Date Collected: 12/14/21 11:45 **Matrix: Water** Date Received: 12/14/21 13:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 15:56	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 15:56	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 15:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 15:56	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 15:56	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			-		12/16/21 15:56	1
1,4-Difluorobenzene (Surr)	97		70 - 130					12/16/21 15:56	1

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Dil Fac

Client: Talon/LPE Job ID: 890-1712-1 Project/Site: CS Caylor SDG: Lea County

Client Sample ID: MW-21

Lab Sample ID: 890-1712-8 Date Collected: 12/14/21 11:45

Matrix: Water Date Received: 12/14/21 13:45

**Method: Total BTEX - Total BTEX Calculation** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/21/21 14:36	1

Client Sample ID: MW-10A Lab Sample ID: 890-1712-9

Date Collected: 12/14/21 08:50 Matrix: Water

Date Received: 12/14/21 13:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 18:35	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 18:35	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 18:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 18:35	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 18:35	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 18:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			-		12/16/21 18:35	1
1,4-Difluorobenzene (Surr)	86		70 - 130					12/16/21 18:35	1

Method: Total BTEX - Total BTEX C	thod: Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/21/21 14:36	1		

Client Sample ID: MW-6A Lab Sample ID: 890-1712-10 Date Collected: 12/14/21 10:36 **Matrix: Water** 

Date Received: 12/14/21 13:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 19:01	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 19:01	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 19:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 19:01	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 19:01	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			-		12/16/21 19:01	1
1,4-Difluorobenzene (Surr)	99		70 - 130					12/16/21 19:01	1
Method: Total BTEX - Total BT	EX Calculation								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/21/21 14:36	1

Lab Sample ID: 890-1712-11 Client Sample ID: MW-11A **Matrix: Water** 

Date Collected: 12/14/21 12:06 Date Received: 12/14/21 13:45

Method: 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 19:27	1	
Toluene	< 0.00200	U	0.00200	0.000367	mg/L			12/16/21 19:27	1	

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12/21/2021

#### **Client Sample Results**

Client: Talon/LPE Job ID: 890-1712-1 Project/Site: CS Caylor SDG: Lea County

Client Sample ID: MW-11A

Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-11 Date Collected: 12/14/21 12:06

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 19:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 19:27	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 19:27	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			-		12/16/21 19:27	1
1,4-Difluorobenzene (Surr)	98		70 - 130					12/16/21 19:27	1
- Method: Total BTEX - Total B1	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
				0.000657				12/21/21 14:36	

#### **Surrogate Summary**

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1712-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1712-1	MW-20	96	87	
890-1712-1 MS	MW-20	105	103	
890-1712-1 MSD	MW-20	97	94	
890-1712-2	MW-17A	99	96	
890-1712-3	MW-16A	103	99	
890-1712-4	MW-15A	97	98	
890-1712-5	MW-14A	94	94	
890-1712-6	MW-13A	100	95	
890-1712-7	MW-18A	104	98	
890-1712-8	MW-21	101	97	
890-1712-9	MW-10A	112	86	
890-1712-10	MW-6A	103	99	
890-1712-11	MW-11A	104	98	
LCS 880-14907/3	Lab Control Sample	85	100	
LCSD 880-14907/4	Lab Control Sample Dup	93	94	
MB 880-14907/8	Method Blank	56 S1-	85	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Client: Talon/LPE Job ID: 890-1712-1 Project/Site: CS Caylor SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-14907/8

**Matrix: Water** 

**Analysis Batch: 14907** 

Client Sample ID: Method Blank

Prep Type: Total/NA

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 12:24	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 12:24	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 12:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 12:24	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 12:24	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 12:24	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	56	S1-	70 - 130		12/16/21 12:24	1
1,4-Difluorobenzene (Surr)	85		70 - 130		12/16/21 12:24	1

Lab Sample ID: LCS 880-14907/3

**Matrix: Water** 

Analysis Batch: 14907

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA** 

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1048		mg/L		105	70 - 130	
Toluene	0.100	0.08851		mg/L		89	70 - 130	
Ethylbenzene	0.100	0.09043		mg/L		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.1831		mg/L		92	70 - 130	
o-Xylene	0.100	0.08885		mg/L		89	70 - 130	

Spike

Added

0.100

0.100

0.100

0.200

0.100

LCSD LCSD

0.1062

0.1042

0.09695

0.1943

0.09940

Result Qualifier

mg/L

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-14907/4

**Matrix: Water** 

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 14907

Client Sample ID:	Lab Control Sample Dup
	Prep Type: Total/NA

RPD %Rec. Unit %Rec Limits Limit mg/L 106 70 - 130 20 mg/L 104 70 - 130 16 20 mg/L 97 70 - 130 7 20 mg/L 97 70 - 130 20

70 - 130

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-1712-1 MS

**Matrix: Water** 

Analysis Batch: 14907										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0991	F1	0.100	0.2382	F1	mg/L		139	70 - 130	
Toluene	0.00104	J	0.100	0.1183		ma/L		117	70 - 130	

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Client Sample ID: MW-20

Prep Type: Total/NA

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#### **QC Sample Results**

Client: Talon/LPE Job ID: 890-1712-1 Project/Site: CS Caylor SDG: Lea County

#### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1712-1 MS

**Matrix: Water** Analysis Batch: 14907

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.100	0.1068		mg/L		107	70 - 130	
m-Xylene & p-Xylene	0.000979	J	0.200	0.2132		mg/L		106	70 - 130	
o-Xylene	<0.00200	U	0.100	0.1066		mg/L		107	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1712-1 MSD

**Matrix: Water** 

**Analysis Batch: 14907** 

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0991	F1	0.100	0.2153		mg/L		116	70 - 130	10	25
Toluene	0.00104	J	0.100	0.1144		mg/L		113	70 - 130	3	25
Ethylbenzene	<0.00200	U	0.100	0.1035		mg/L		103	70 - 130	3	25
m-Xylene & p-Xylene	0.000979	J	0.200	0.2080		mg/L		104	70 - 130	2	25
o-Xvlene	<0.00200	U	0.100	0 1054		ma/l		105	70 - 130	1	25

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 97 70 - 130 1,4-Difluorobenzene (Surr) 94 70 - 130 Client Sample ID: MW-20 Prep Type: Total/NA

Client Sample ID: MW-20

**Prep Type: Total/NA** 

#### **QC Association Summary**

Client: Talon/LPE Job ID: 890-1712-1
Project/Site: CS Caylor SDG: Lea County

#### **GC VOA**

#### Analysis Batch: 14907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1712-1	MW-20	Total/NA	Water	8021B	
890-1712-2	MW-17A	Total/NA	Water	8021B	
890-1712-3	MW-16A	Total/NA	Water	8021B	
890-1712-4	MW-15A	Total/NA	Water	8021B	
890-1712-5	MW-14A	Total/NA	Water	8021B	
890-1712-6	MW-13A	Total/NA	Water	8021B	
890-1712-7	MW-18A	Total/NA	Water	8021B	
890-1712-8	MW-21	Total/NA	Water	8021B	
890-1712-9	MW-10A	Total/NA	Water	8021B	
890-1712-10	MW-6A	Total/NA	Water	8021B	
890-1712-11	MW-11A	Total/NA	Water	8021B	
MB 880-14907/8	Method Blank	Total/NA	Water	8021B	
LCS 880-14907/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-14907/4	Lab Control Sample Dup	Total/NA	Water	8021B	
890-1712-1 MS	MW-20	Total/NA	Water	8021B	
890-1712-1 MSD	MW-20	Total/NA	Water	8021B	

#### Analysis Batch: 15276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1712-1	MW-20	Total/NA	Water	Total BTEX	
890-1712-2	MW-17A	Total/NA	Water	Total BTEX	
890-1712-3	MW-16A	Total/NA	Water	Total BTEX	
890-1712-4	MW-15A	Total/NA	Water	Total BTEX	
890-1712-5	MW-14A	Total/NA	Water	Total BTEX	
890-1712-6	MW-13A	Total/NA	Water	Total BTEX	
890-1712-7	MW-18A	Total/NA	Water	Total BTEX	
890-1712-8	MW-21	Total/NA	Water	Total BTEX	
890-1712-9	MW-10A	Total/NA	Water	Total BTEX	
890-1712-10	MW-6A	Total/NA	Water	Total BTEX	
890-1712-11	MW-11A	Total/NA	Water	Total BTEX	

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Released to Imaging: 8/3/2022 7:37:10 AM

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Client: Talon/LPE Job ID: 890-1712-1 Project/Site: CS Caylor SDG: Lea County

Client Sample ID: MW-20

Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-1 Date Collected: 12/14/21 08:00

**Matrix: Water** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 12:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Client Sample ID: MW-17A Lab Sample ID: 890-1712-2

Date Collected: 12/14/21 08:30 **Matrix: Water** 

Date Received: 12/14/21 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 13:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Client Sample ID: MW-16A Lab Sample ID: 890-1712-3

Date Collected: 12/14/21 09:00 **Matrix: Water** 

Date Received: 12/14/21 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 13:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Client Sample ID: MW-15A Lab Sample ID: 890-1712-4

Date Collected: 12/14/21 09:30 **Matrix: Water** Date Received: 12/14/21 13:45

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Analysis 8021B 5 mL 5 mL 14907 12/16/21 14:11 MR XEN MID Total/NA Analysis Total BTEX 1 15276 12/21/21 14:36 AJ XEN MID

Client Sample ID: MW-14A Lab Sample ID: 890-1712-5

Date Collected: 12/14/21 10:00 **Matrix: Water** Date Received: 12/14/21 13:45

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 14:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Lab Sample ID: 890-1712-6 Client Sample ID: MW-13A

Date Collected: 12/14/21 11:00 Matrix: Water Date Received: 12/14/21 13:45

	Batch	Batch		Dil	Initial	al Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 15:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Eurofins Xenco, Carlsbad

Released to Imaging: 8/3/2022 7:37:10 AM

Job ID: 890-1712-1 SDG: Lea County

Project/Site: CS Caylor

Client: Talon/LPE

Lab Sample ID: 890-1712-7

Client Sample ID: MW-18A Date Collected: 12/14/21 11:30

Date Received: 12/14/21 13:45

**Matrix: Water** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 15:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Lab Sample ID: 890-1712-8

Date Collected: 12/14/21 11:45 Date Received: 12/14/21 13:45

Client Sample ID: MW-21

**Matrix: Water** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 15:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Client Sample ID: MW-10A Lab Sample ID: 890-1712-9

Matrix: Water

Date Collected: 12/14/21 08:50 Date Received: 12/14/21 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 18:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Client Sample ID: MW-6A Lab Sample ID: 890-1712-10

**Matrix: Water** 

Date Collected: 12/14/21 10:36 Date Received: 12/14/21 13:45

Date Received: 12/14/21 13:45

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Analysis 8021B 5 mL 5 mL 14907 12/16/21 19:01 MR XEN MID Total/NA Analysis Total BTEX 1 15276 12/21/21 14:36 ΑJ XEN MID

Client Sample ID: MW-11A Lab Sample ID: 890-1712-11

Date Collected: 12/14/21 12:06

**Matrix: Water** 

Batch Dil Batch Initial Final Ratch Prepared Method Amount Number or Analyzed Prep Type Туре Run Factor Amount Analyst Lab Total/NA Analysis 8021B 5 mL 5 mL 14907 12/16/21 19:27 MR XEN MID Total/NA Analysis Total BTEX 15276 12/21/21 14:36 XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

### **Accreditation/Certification Summary**

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1712-1
SDG: Lea County

### Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for
• ,	fer certification.			ay morado anarytoo ror
the agency does not of		Matrix	Analyta	.,
• ,	fer certification. Prep Method	Matrix	Analyte	

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### **Method Summary**

Client: Talon/LPE Job ID: 890-1712-1
Project/Site: CS Caylor SDG: Lea County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
5030B	Purge and Trap	SW846	XEN MID

### **Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

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### Sample Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1712-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1712-1	MW-20	Water	12/14/21 08:00	12/14/21 13:45
890-1712-2	MW-17A	Water	12/14/21 08:30	12/14/21 13:45
890-1712-3	MW-16A	Water	12/14/21 09:00	12/14/21 13:45
890-1712-4	MW-15A	Water	12/14/21 09:30	12/14/21 13:45
890-1712-5	MW-14A	Water	12/14/21 10:00	12/14/21 13:45
890-1712-6	MW-13A	Water	12/14/21 11:00	12/14/21 13:45
890-1712-7	MW-18A	Water	12/14/21 11:30	12/14/21 13:45
890-1712-8	MW-21	Water	12/14/21 11:45	12/14/21 13:45
890-1712-9	MW-10A	Water	12/14/21 08:50	12/14/21 13:45
890-1712-10	MW-6A	Water	12/14/21 10:36	12/14/21 13:45
890-1712-11	MW-11A	Water	12/14/21 12:06	12/14/21 13:45

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Revised Date: 08/25/2020 Rev. 2020 2

eurofins Environment Testing

## Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

Work Order No:

Manager   David Addicing   David   Dav			2	2-14-21 1345	12:	May Com	7	12-12
Manager   David Addicins   Date (4 street)   Picins All Administration   Picins All	e)	Received by: (Signatu	Relinquished by: (Signature)	Date/Time	ıre)	Received by: (Signati	Signature)	Relinquished by: (
David Addicins   David Addicins   David Addicins   Program Name	<b>B.</b>	gns standard terms and conditions to circumstances beyond the control enforced unless previously negotiated	nco, its affiliates and subcontractors. It sesi incurred by the client if such losses are due i Xenco, but not analyzed. These terms will by	company to Eurofins Xe ny losses or expenses e submitted to Eurofins	chase order from client e any responsibility for a rge of \$5 for each samp	nples constitutes a valid pu amples and shall not assur ed to each project and a ch	ument and relinquishment of sar vill be liable only for the cost of s m charge of \$85.00 will be appli	otice: Signature of this doc rervice. Eurofins Xenco Eurofins Xenco. A minim
Manager   David Adkins   Bill to:   I deferred   Plains All American   Work Order of the Nyant   Vog Texas St   Address:   SRS# 2002 - 10250   Reporting Level III   Destination   Part   Project III   Project I	245.1 / 7470 / 7471	TI U		Sb As Ba Be C	.P 6010: 8RCRA	TCLP / SPI	Metal(s) to be analyzed	ircle Method(s) and
Managaer   David Adkins   Billion (address)   Placins All Amorican   Work Order Comments	Va Sr TI Sn U V Zn	K Se	Ca Cr Co Cu Fe Pb	As Ba Be B	Texas 11 Al	8RCRA 13PP		Total 200.7 / 601
Manager   David Addicise   David Addicise   Play   Affai   Cantille 8 year				1	)   (	1 10:36		MW-6A
Manager:   David Adkins   Bills: (I different)   Plains   All Amorican						9:50		
Manager:   David AdKins						11.45		カルーコー
Manager:   David Adkins						11:30		
Manager   David Adkins   Billion (I different)   Plains   All American   Plains   Program   UstPet   PRP   Brownfields   RRC   Superfund   State of Project   PRP   Brownfields   RRC   Superfund   Program   UstPet						1 11:00		_
Manager   David Ad Kins   Ellito (I different)   Plains   All American   Program: USTPST   PRP  Brownfields   RRC   Superfund	Ma Ochologa p, com					10:00		١
Manager   David Adkins   Bill to, (lidifferent)   Plains   All American   Mork Order Comments	pacifo. Con					9:30		
Manager         David         Adkins         Bill to: (It different)         P/ains         A/I American         Work Order Comments           ny Name:         Tallon         CPE         company Name:         Attnicant         Attnicant         Attnicant         Program: UST/PST □ PRP□ Brownfields□ RRC □           ste zip:         Artesia, M/N         88110         City, Slate zip:         \$R\$ # 2002 - /0.250         Program: UST/PST □ PRP□ Brownfields□ RRC □           Name:         CS Caylor         Turn Around         Analysis Recovered by 10 Admins □ Rays         Program: UST/PST □ PRP□ Brownfields□ RRC □           Name:         CS Caylor         Turn Around         Analysis Recovered III□ Level III□ PST/UST □ TRRP □         Program: UST/PST □ PRP□ Brownfields□ RRC □           Name:         CS Caylor         Analysis Recovered II□ Level III□ PST/UST □ TRRP □         Program: UST/PST □ PRP□ Brownfields□ RRC □           Name:         CS Caylor         Due Date:         Analysis Recovered II□ Level II□ PST/UST □ TRRP □           LERECEIPT         Temp Blank:         (ves) No         The lab if received by 4 30pm         Program: UST/PST □ PRP□ □ Other:           Sample Corrected Inlact         (ves) No         No         The popular of Cays No         No         No         No         Na         Na         Na         Na         Na         Na         Na	epoplo.					9.00		l ' .
Manager   David Adkins   Bill to: (if different)   Plains All American   Work Order Comments	70:					8:30		11/J-17A
Manager:   David Adkins   Bill to: (It different)   Plains All Amenican   Mork Order Comments	Ana			.×	<u>IA</u> 3	_		16-20
Manager:     David Adkins     Bill to: (If different)     Plains All American     Work Order Comments       ny Name:     Talon CPE     Company Name:     Attn: Card   Reporting:     Program: UST/PST □ PRP□ Brownfields □ RRC □       state of Project:     ST6-44/1-4835     Email:     dodkins & talon personed by the lab, if received by the lab, if rec	Sample Comments				Grab/ Comp	Time Sampled	Matrix	Sample Identif
Manager:       David Adkins       Bill for (if different)       Plains All American       Work Order Comments         ny Name:       Talon CPE       Company Name:       Attni Camille Bryant       Program: USTPST PRP Brownfields RRC         state ZIP:       Artesia. Mm 88210       City, State ZIP:       State of Project:       Reporting: Level III Level III Level III Level III Level III PST/UST TRRP Cother:         Name:       C5 Caylor       Turn Around       Press.       ANALYSIS REQUEST       Preservativ         Number:       C5 Caylor       Due Date:       Cool: Cool No. 1 Tot starts the day received by 4:30pm seceived by 4:30pm by 1 Cool of the lab, if received by 4:30pm seceived Intact.       Tart starts the day received by 4:30pm by 1 Cool of the lab, if received by 4:30pm by 1 Co	NaOH+Ascorbic Acid: SAPC			EX	0.4	rected Temperature:	Cor	tal Containers:
Manager:     David Adkins     Bill to: (it different)     Plains All American     Work Order Comments       ny Name:     Talon < PE	Zn Acetate+NaOH: Zn				4.2	_	No N/A	ample Custody Seals
Manager: David Adkins    Manager: David Adkins   Bill to: (if different)   P/ains A/  American   Talon CPE	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	of Custody		30	<u></u>		No	Cooler Custody Seals:
Manager:     David Adkins     Bill to: (if different)     P/ains A/I American     Work Order Comments       my Name:     Talon CPE     Company Name:     Affni Carni//P Bryant     Program: UST/PST □ PRP□ Brownfields □ RRC □       s:     YOR TEXAS St     Address:     SRS# 2002 - /0250     State of Project:       gte ZIP:     Affresia, M/1 88210     City, State ZIP:     SRS# 2002 - /0250     State of Project:       Name:     S75-44/-4835     Email:     Addkins & talon /pc, Com     Perservativ       Number:     CS Cay/o Turn Around     Preservativ       Icoation:     Lea Count Y     Due Date:     Preservativ       Icoation:     Lea Count Y     Due Date:     Preservativ       Tal starts the day received by 4:30pm     Preservativ       H <sub>2</sub> S0; H <sub>2</sub> H <sub>2</sub> S0; H <sub>2</sub> None: No     H <sub>2</sub> S0; H <sub>2</sub> H <sub>2</sub> PO; HP	NaHSO4: NABIS			21		٤	(Yes) No	amples Received Inta
Manager:       David Adkins       Bill to: (if different)       P/ains A/I Amorican       Work Order Comments         ny Name:       Talon CPE       Company Name:       Attni Carrille Bryant       Program: UST/PST □ PRP□ Brownfields □ RRC □         s:       4/03 Texas Name:       Attni Carrille Bryant       State of Project:         ste zIP:       Artesia, NM 8810       City, State zIP:       SRS # 2002 - /0250       Program: UST/PST □ PRP□ Brownfields □ RRC □         ST5-44/-4835       Email:       Addkins & talon foe. Com       Analysis reouted:       Reporting: Level III □ PST/UST □ TRRP □         Number:       CS Caylor       Turn Around       Pres.       Analysis reouted:       Preservativ         Location:       Lea County       Due Date:       Tal starts the day received by 4:30pm       Pres.       Pres.         SRS # 2002-/0250       The lab, if received by 4:30pm       Pres.       Pres.       Pres.	H <sub>3</sub> PO <sub>4</sub> : HP			1 /	N <sub>O</sub>	No	Temp Blank:	AMPLE RECEIP
Manager:     David Adkins     Bill to: (if different)     Plains All American     Work Order Comments       ny Name:     Talon CPE     Company Name:     Attni Camille Bryant     Program: UST/PST □ PRP□ Brownfields □ RRC □       s:     4/08 Texas St     Address:     SRS# 2002 - /0250     State of Project:       ate ZIP:     Artesia. N/ 8810     City, State ZIP:     SRS# 2002 - /0250     Reporting: Level III □ Level III □ PST/UST □ TRRP □       Name:     575-441-4835     Email:     Addkins & talon /pc. Com     ANALYSIS REQUEST     Preservativ       Number:     CS Caylor     Turn Around     Pres.     ANALYSIS REQUEST     Preservativ       Location:     Lea County     Due Date:     Tal starts the day received by     Tal starts the day received by     Tal starts the day received by				8	_		RS# 2002-1025c	
Manager:       David Adkins       Bill to: (if different)       Plains All American       Work Order Comments         ny Name:       Talon CPE       Company Name:       Attni Camille Bryant       Program: UST/PST PRP Brownfields RRC         s:       4/03 Texas St       Address:       SRS # 2002 - 10250       State of Project:         ate ZIP:       Artesia, MM 88210       City, State ZIP:       SRS # 2007 pe. Com       Reporting: Level III PST/UST TRRP Deliverables: EDD Del					day received by	9	R. Rell, D. Winch	
Manager:       David Adkins       Bill to: (if different)       Plains All American       Work Order Comments         ny Name:       Talon CPE       Company Name:       Attnicanille Bryant       Program: UST/PST PRP Brownfields RRC         s:       4/03 Texas St       Address:       SRS# 2002 - 10250       State of Project:         ate ZIP:       Artesia M/1 88210       City, State ZIP:       State of Project:       Reporting: Level III PST/UST TRRP Ediverables: EDD ADAPT Other:         Name:       CS Caylor       Turn Around Pres.       ANALYSIS REQUEST       Preservativ         None: NO       Mone: NO	2					Due Date:	$\sim$	
Manager: David Adkins Bill to: (if different) Plains A/I American Work Order Comments   ny Name: Talon < PE						Routine	,	Project Number:
Manager:       David Adkins       Bill to: (if different)       Plains All American       Work Order Comments         ny Name:       Talon CPE       Company Name:       Attni Canille Bryant       Program: UST/PST PRP Brownfields RRC         s:       408 Texas St       Address:       5RS # 2002 - 10250       State of Project:         ate ZIP:       Artesia, MM 88210       City, State ZIP:       575-44/-4835       Email:       Aadkins & talon foe. Com       Deliverables: EDD ADAPT Other:	Preservative Codes		ANALYSIS REQUEST			Turn A	1 1	Project Name:
David Adkins   Bill to: (if different)   P/Gins A/// American   Work Order Comments				1.1	dadkinse		575-44/- 483	
David Adkins       Bill to: (if different)       Plains All American       Work Order Comments         Talon <pe< td="">       Company Name:       Attni Camille Bryant       Program: UST/PST □ PRP□ Brownfields □ RRC □         408 Texas St       Address:       \$RS # 2002 - 10250       State of Project:</pe<>		rting: Level II Level III L PS	Repo		ity, State ZIP:	0	NM	ty, State ZIP:
David Adkins Bill to: (if different) Plains All American Work Order Comments  Talon CPE Company Name: Attni Camille Bryant Program: UST/PST PRP Brownfields RRC		of Project:	10250		ddress:	+		
David Adkins Bill to: (if different) Plains All American		ram: UST/PST [] PRP[] Brow	Me Bryant	17	ompany Name:	0		
	Comments	Work Order (	11 American	Plains A	ill to: (if different)	В		
			EL Paso, IX (915) 363-3445, Lubbock, IX (606) / 94-1295	(915) 585-3443, LUUU	EL Paso, IA		VEHCO	

Circle Method(s) and Metal(s) to be analyzed

Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se

Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni

Ag TI U

~ Se

Ag SiO<sub>2</sub> Na Sr TI Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471

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Sample Comments

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Project Manager:

David

Adkins

Company Name:

Talon

JAI

408 Texas

City, State ZIP: ddress:

Mesia,

882

### Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Work Order No:

None: NO DI Water: H <sub>2</sub> O		\$.	utine Rush Code
Preservative Codes	QUEST	ANALYSIS REQUEST	Turn Around
other:	Deliverables: EDD	Email: dadkins@ talonloe.com	dad kins
ST/UST TRRP Level IV	Reporting: Level II  Level III  PST/UST TRRP L Level IV	SRS# 2002-10250	City, State ZIP:
1	State of Project:	Atta: Camille Bryant	Address:
vnfields 🗌 RRC 🗌 Superfund 🔲	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund [	Pipelinc	Company Name:
Comments	Work Order Comments	Plains All American	Bill to: (if different)
n Page & of &	www.xenco.com	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	EL Paso, T Hobbs, NM

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13952	17-14-21 13452	(lep Cy)	Thinkell
Ime Relinquished by: (Signature) Received by: (Signature) Date: Illie	Date/Time	Received by: (Signature)	Relinquished by: (Signature)

NaOH+Ascorbic Acid: SAPC Zn Acetate+NaOH: Zn Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>: NaSO<sub>3</sub> NaHSO4: NABIS H3PO4: HP H<sub>2</sub>S0<sub>4</sub>: H<sub>2</sub>

SAMPLE RECEIPT

Temp Blank:

Yes No

Wet Ice:

Yes

No

**Parameters** 

8021B

Yes No

Samples Received Intact:

Cooler Custody Seals:

Yes Yes No

N 0

Z

Temperature Reading: Correction Factor Thermometer ID:

Corrected Temperature

Total Containers: Sample Custody Seals:

Sample Identification

MW-11A

CO Matrix

12/14/21

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Sampled

Time

Depth

Comp Grab/

Cont

Date

Project Number:

Project Name:

'S Caylor

575-441-4835

Email:

Sampler's Name: Project Location:

Lea

Count V

Due Date: Routine

12.8011, D. Winchell 5RS#2002-16250

TAT starts the day received by the lab, if received by 4:30pm

HCL: HC Cool: Cool

HNO3: HN MeOH: Me

NaOH: Na

Carlsbad NM 88220

Eurofins Xenco, Carlsbad 1089 N Canal St.

# **Chain of Custody Record**

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Environment Testing America

Phone: 575-988-3199 Fax. 575-988-3199											
Client Information (Sub Contract Lab)	Sampler		Lab PM Krame	<sub>Lab PM</sub> Kramer Jessica			Camer Tracking No(s)	king No(s)	<b>8</b> 0	COC No <sup>-</sup> 890-546 1	
	Phone:		E-Mail jessic	E-Mail jessica kramer@eurofinset.cor	eurofinset.co	∄	State of Origin: New Mexico	gin: lico	g q	Page: Page 1 of 2	
Company Eurofins Xenco				Accreditations Requ	Accreditations Required (See note): NELAP - Texas	10te):			98 or	Job#: 890-1712-1	
Address 1211 W Florida Ave, ,	Due Date Requested 12/20/2021					Analysis R	Requested		<u>_</u>	Preservation Codes	1
City Midland	TAT Requested (days).	).							0 B A	HCL NaOH - Zn Acetate	M Hexane N None
State, Zip TX, 79701				allering Shumasa					m o		P Na2O4S Q Na2SO3
Phone: 432-704-5440(Tel)	PO#			) dend					r o T		R - Na2S2O3 S H2SO4
Email:	WO#.			097V0767***Y					ediolites	Ice DI Water	U Acetone V MCAA
Project Name CS Caylor	Project #: 89000047			100000000000000000000000000000000000000					tainer	EDA	W pH 4-5 Z other (specify)
Site:	SSOW#			SD (Ye	V				Shannesh.	Other:	
(al de I) al tioni a contratification d'annes		Sample Type (C=comp,	Matrix  W=water  W=solid,  mp, O=wasteioli,	ield Filtered : erform MS/M 021B/6030B BT	otal_BTEX_GC				otal Number		
	V		CO on	X					X		
MW-20 (890-1712-1)	12/14/21 N	08 00 Mountain	Water	×	×	·			G)		
MW-17A (890-1712-2)	12/14/21 N	08 30 Mountain	Water	×	×				ω		
MW-16A (890-1712-3)	12/14/21	09 00 Mountain	Water	×	×				ဖ		
MW-15A (890-1712-4)	12/14/21 N	09 30 Mountain	Water	×	×		-		w		
MW-14A (890-1712-5)	12/14/21 N	10 00 Mountain	Water	×	×				w		
MW-13A (890-1712-6)	12/14/21	11 00 Mountain	Water	×	×				(Os.)		
MW-18A (890-1712-7)	12/14/21 N	11 30 Mountain	Water	×	×				66.		
MW-21 (890-1712-8)	12/14/21	11 45 Mountain	Water	×	×				ω.		
MW-10A (890-1712-9)	12/14/21 N	08 50 Mountain	Water	×	×				(5)		
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	places the ownership of being analyzed the sam	method, analyte & ac ples must be shipped dy attesting to said c	ccreditation complian back to the Eurofins omplicance to Eurofi	ce upon out sub s Xenco LLC lab ns Xenco LLC.	contract laborat	ories. This san instructions wil	nple shipment i	s forwarded und Any changes to	ler chain-of-cus accreditation s	tody If the labora	tory does not currently วนght to Eurofins Xenco L
Possible Hazard Identification Unconfirmed				Sample	Sample Disposal ( A	<sup>™</sup> fee	e assessed if san Disposal By Lab	if samples : 3y Lab	are retained long	er than	1 month)  Months
Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank. 2	le Rank. 2		Special I	Special Instructions/Q	ΩC Requirements	nents				
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Relinquished by:			Company	Recei	Received by			Date/Time:	Ю.		Company
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Custody Seals Intact. Custody Seal No				Coole	Cooler Temperature(s)	റ്	and Other Remarks.		الد	7	D D
: 00				ŀ				I.	-	(	Ver: 06/08/2021

# Chain of Custody Reco

Eurofins Xenco, Carlsbad 1089 N Canal St.	Chain of Custody D			💸 eurofins   Environment Testing
Carlsbad, NM 88220	Chain of Custody Record	Record		America
Phone 575-988-3199 Fax. 575-988-3199				
	Sampler Lab PM	M	Carrier Tracking No(s)	COC No
Client Information (Sub Contract Lab)	Krar	Kramer, Jessica		890-546 2
Client Contact:	Phone E-Mail		State of Origin	Page:
Shipping/Receiving	Jess	jessica kramer@eurofinset.com	New Mexico	Page 2 of 2
Company:		Accreditations Required (See note)		Job#:
Eurofins Xenco		NELAP - Texas		890-1712-1
Address.	Due Date Requested			Preservation Codes

Phone 575-988-3199 Fax. 575-988-3199																
Client Information (Sub Contract Lab)	Sampler			Lab PM Krame	Lab PM Kramer, Jessica	à				Carrier T	Carrier Tracking No(s)	No(s)			COC No 890-546 2	
Client Contact: Shipping/Receiving	Phone			E-Mail Jessic	E-Mail Jessica kramer@eurofinset.com	@eurof	inset.co	3		State of Origin New Mexico	Origin				Page: Page 2 of 2	
Company: Eurofins Xenco					Accreditations Required (See note) NELAP - Texas	ns Requir Texas	red (See r	note)							Job #: # # # # # # # # # # # # # # # # # #	
Address. 1211 W Florida Ave	Due Date Requested 12/20/2021						D	Analysis	is Req	Requested	ā				Preservation Codes	)des
City Midland	TAT Requested (days):	s):		33 3000									$\dashv$		B NaOH C - Zn Acetate	M - Hexane N None O AsNaO2
State Zip TX 79701				re waa	7									in en en	D Nitric Acid E NaHSO4	P Na2O4S Q Na2SO3
Phone: 432-704-5440(Tel)	PO#-			90 200 3-0	) 						.,			en e	G Amchlor H Ascorbic Acid	⊣οχ
Email	WO#:				OF SUMBINGS									STATE OF THE STATE OF		< ⊂
Project Name CS Caylor	Project #: 89000047			Van 18	wanted by									no-william	L EDA	Z other (specify)
Site:	SSOW#			240345997200	SD (Y				<del></del>					Sec. 30 (5) 27	Other:	
		Sample (C	Sample Type (C=comp.	Matrix (w=water S=solid,	id Filtered form MS/N 18/5030B B	al_BTEX_G								al Number		
Combined Control Control	Oumpio Date	X	Preservation Code	maid	X	erin di					+		24	X	Operan	opecial insulativole.
MW-6A (890-1712-10)	12/14/21	10 36 Mountain		Water		×							1	w		
MW-11A (890-1712-11)	12/14/21	12 06 Mountain		Water	v	×								w		
														en sperior		
									-				-			
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC.	places the ownership of the sam analyzed the sam e signed Chain of Cust	f method, analyt	e & accreditati	on compliance the Eurofins )	y upon out (enco LLC	subcontra laborator	act laboral	instructio	nis sample	shipme provide	nt is forw	varded u	Inder ch	ain-of-c	xustody If the labor	ratory does not currently yrought to Eurofins Xenco LLC
Possible Hazard Identification Unconfirmed					Samı	Sample Disposal ( A fee	osal ( , To Clie		ay be a	e assessed if san <sup>1</sup> Disposal By Lab	ed if sa al By La	ample. 3b	s are i	etain     Arch	may be assessed if samples are retained longer than 1 month)  Disposal By Lab  Archive For	n 1 month) Months
Deliverable kequested   II III IV Other (specify)	Primary Deliverable Rank.	ible Rank. 2			Spec	Special Instructions/QC R	uctions/	2C Rec	equirements	4	Method of Shipment:	Shipme	Ä			
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Relinquished by	Date/Time <sup>,</sup>			Company	Z)	Received by	Υ.				ĺ	Date/Time	ime.			Company
1	Date/Time:		್ದ	Company	Z)	Received by	Y.					Date/Time	îme			Company
Custody Seals Intact. Custody Seal No  ∆ Yes ∆ No						Cooler Temperature(s) °C	perature(		and Other Remarks.	emarks.	4	6	4	1	.10	TRO Ver 06/08/2021
																4 61 00/00/2021

### **Login Sample Receipt Checklist**

Client: Talon/LPE

Job Number: 890-1712-1

SDG Number: Lea County

Login Number: 1712 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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12/21/2021

### **Login Sample Receipt Checklist**

Client: Talon/LPE

Job Number: 890-1712-1

SDG Number: Lea County

List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 12/15/21 01:04 PM

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

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<6mm (1/4").

### **Environment Testing America**

### **ANALYTICAL REPORT**

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1710-1

Laboratory Sample Delivery Group: Lea County

Client Project/Site: CS Caylor

For:

Talon/LPE 408 W. Texas St. Artesia, New Mexico 88210

Attn: David Adkins

JURAMER

Authorized for release by: 12/23/2021 8:50:18 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

·····LINKS ·······

Review your project results through

**Have a Question?** 



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 8/3/2022 7:37:10 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Talon/LPE
Project/Site: CS Caylor

Laboratory Job ID: 890-1710-1
SDG: Lea County

### **Table of Contents**

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### **Definitions/Glossary**

Client: Talon/LPE Job ID: 890-1710-1 Project/Site: CS Caylor SDG: Lea County

### **Qualifiers**

**GC VOA** 

Qualifier **Qualifier Description** Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

**HPLC/IC** 

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected. U

**Metals** 

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

**General Chemistry** 

Qualifier **Qualifier Description** 

HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

U Indicates the analyte was analyzed for but not detected.

### **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.								
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis								
%R	Percent Recovery								
CFL	Contains Free Liquid								
CFU	Colony Forming Unit								
CNF	Contains No Free Liquid								
DER	Duplicate Error Ratio (normalized absolute difference)								
Dil Fac	Dilution Factor								
DL	Detection Limit (DoD/DOE)								

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NFG POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control** 

**RER** Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TFO

**TNTC** Too Numerous To Count

### **Case Narrative**

Client: Talon/LPE Job ID: 890-1710-1
Project/Site: CS Caylor SDG: Lea County

Job ID: 890-1710-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1710-1

### Receipt

The samples were received on 12/14/2021 1:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.2°C

### **GC VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### **General Chemistry**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Eurofins Xenco, Carlsbad 12/23/2021 Client: Talon/LPE

Job ID: 890-1710-1 Project/Site: CS Caylor SDG: Lea County

Client Sample ID: MW-10A

Lab Sample ID: 890-1710-1 Date Collected: 12/14/21 08:50

Matrix: Water Date Received: 12/14/21 13:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.796	J	5.00	0.453	ug/L			12/16/21 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluoroethane	112		70 - 130					12/16/21 18:13	1
Method: 300.0 - Anions, Ion Chro	omatography								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.979		0.100	0.0391	mg/L			12/15/21 18:25	1
Sulfate	52.2		0.500	0.109	mg/L			12/15/21 18:25	1
- Method: 6020A - Metals (ICP/MS)	)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.00665		0.00200	0.000199	mg/L		12/16/21 09:45	12/16/21 19:33	1
-									
General Chemistry						_			Dil Fac
•	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Analyte	Result 375	Qualifier	RL 4.00	<b>MDL</b> 4.00	mg/L	D	Prepared	12/16/21 13:24	1
Analyte		Qualifier			mg/L	<u>D</u>	Prepared		1 1
Analyte Alkalinity	375		4.00	4.00 4.00	mg/L	<u>D</u>	Prepared	12/16/21 13:24	1 1 1
Analyte Alkalinity Bicarbonate Alkalinity as CaCO3	375 375	U	4.00	4.00 4.00	mg/L mg/L	<u> </u>	Prepared	12/16/21 13:24 12/16/21 13:24	1 1 1 1
Analyte  Alkalinity  Bicarbonate Alkalinity as CaCO3  Carbonate Alkalinity as CaCO3	375 375 <4.00	U	4.00 4.00 4.00	4.00 4.00 4.00	mg/L mg/L mg/L	<u>D</u>	Prepared	12/16/21 13:24 12/16/21 13:24 12/16/21 13:24	1 1

Client Sample ID: MW-6A Lab Sample ID: 890-1710-2 Date Collected: 12/14/21 10:36 Matrix: Water

Method: RSK-175 - Dissolved Gase	s (GC)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<5.00	U	5.00	0.453	ug/L			12/16/21 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluoroethane	117		70 - 130					12/16/21 18:30	1
Method: 300.0 - Anions, Ion Chrom	atography								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.93		0.100	0.0391	mg/L			12/15/21 18:38	1
Sulfate	52.3		0.500	0.109	mg/L			12/15/21 18:38	1
Method: 6020A - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0122		0.00200	0.000199	mg/L		12/16/21 09:45	12/16/21 19:36	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
A.U. 10 14	254		4.00	4.00	mg/L			12/16/21 13:41	1
Alkalinity			4.00	4.00	mg/L			12/16/21 13:41	1
Alkalinity Bicarbonate Alkalinity as CaCO3	254								
•	<b>254</b> <4.00	U	4.00	4.00	mg/L			12/16/21 13:41	1
Bicarbonate Alkalinity as CaCO3			4.00 4.00		mg/L mg/L			12/16/21 13:41 12/16/21 13:41	1 1
Bicarbonate Alkalinity as CaCO3 Carbonate Alkalinity as CaCO3	<4.00	U		4.00					1 1 1

### **Client Sample Results**

Client: Talon/LPE Job ID: 890-1710-1 Project/Site: CS Caylor SDG: Lea County

Client Sample ID: MW-11A

Date Received: 12/14/21 13:45

Lab Sample ID: 890-1710-3 Date Collected: 12/14/21 12:06

**Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<5.00	U	5.00	0.453	ug/L			12/16/21 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluoroethane	113		70 - 130					12/16/21 18:46	1
Method: 300.0 - Anions, Ion Chro	omatography								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.63		0.100	0.0391	mg/L			12/15/21 18:51	1
Sulfate	89.5		0.500	0.109	mg/L			12/15/21 18:51	1
- Method: 6020A - Metals (ICP/MS)	)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0168		0.00200	0.000199	mg/L		12/16/21 09:45	12/16/21 19:40	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	243		4.00	4.00	mg/L			12/16/21 13:32	1
Bicarbonate Alkalinity as CaCO3	243		4.00	4.00	mg/L			12/16/21 13:32	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			12/16/21 13:32	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			12/16/21 13:32	1
			4.00	4.00	m ~ /I			12/16/21 13:32	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			12/10/21 13.32	

### **Surrogate Summary**

Client: Talon/LPE

Project/Site: CS Caylor

Job ID: 890-1710-1

SDG: Lea County

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water Prep Type: Total/NA

		fluoroethar	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	
890-1710-1	MW-10A	112	
890-1710-2	MW-6A	117	
890-1710-3	MW-11A	113	
LCS 860-34534/7	Lab Control Sample	123	
LCSD 860-34534/8	Lab Control Sample Dup	116	
MB 860-34534/6	Method Blank	129	
Surrogate Legend			

Eurofins Xenco, Carlsbad

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Prep Type: Total/NA

Client: Talon/LPE Job ID: 890-1710-1 Project/Site: CS Caylor SDG: Lea County

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 860-34534/6 Client Sample ID: Method Blank

**Matrix: Water** 

Analysis Batch: 34534

	IVID	MID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<5.00	U	5.00	0.453	ug/L			12/16/21 12:22	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluoroethane	129		70 - 130		12/16/21 12:22	1

Lab Sample ID: LCS 860-34534/7 Client Sample ID: Lab Control Sample

**Matrix: Water** Prep Type: Total/NA

Analysis Batch: 34534

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits

Methane 19.9 20.67 104 ug/L 70 - 130

LCS LCS

Qualifier Surrogate %Recovery Limits Trifluoroethane 123 70 - 130

Lab Sample ID: LCSD 860-34534/8 Client Sample ID: Lab Control Sample Dup

**Matrix: Water** Prep Type: Total/NA

Analysis Batch: 34534

LCSD LCSD RPD Spike %Rec. Added Analyte Result Qualifier Unit D %Rec Limits **RPD** Limit Methane 19.9 19.02 96 70 - 130 30 ug/L

LCSD LCSD

Surrogate %Recovery Qualifier Limits Trifluoroethane 116 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-34288/3 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 34288** 

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Sulfate <0.500 U 0.500 0.109 mg/L 12/15/21 04:55

Lab Sample ID: LCS 860-34288/4 Client Sample ID: Lab Control Sample **Matrix: Water** 

Prep Type: Total/NA

**Analysis Batch: 34288** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Sulfate 10.0 9.856 90 - 110 mg/L

Lab Sample ID: LCSD 860-34288/5 Client Sample ID: Lab Control Sample Dup

**Matrix: Water Analysis Batch: 34288** 

MB MB

LCSD LCSD RPD Spike %Rec. Added Analyte Result Unit %Rec RPD Limit

Qualifier Sulfate 10.0 9.653 97 90 - 110 mg/L

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

Job ID: 890-1710-1

Prep Type: Total/NA

Client: Talon/LPE Project/Site: CS Caylor SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-9312-A-1 MS Client Sample ID: Matrix Spike

**Matrix: Water** 

Analysis Batch: 34288

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Sulfate	2.23		10.0	11.93		mg/L		97	90 - 110	

Lab Sample ID: 880-9312-A-1 MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 34288** 

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Qualifier Limit Analyte Result Unit D %Rec Limits RPD Sulfate 2.23 10.0 11.94 mg/L 97 90 - 110

Lab Sample ID: MB 860-34289/3 Client Sample ID: Method Blank

**Matrix: Water** Prep Type: Total/NA

Analysis Batch: 34289

мв мв

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Nitrate as N <0.100 U 0.100 0.0391 mg/L 12/15/21 04:55

Lab Sample ID: LCS 860-34289/4 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 34289** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits mg/L Nitrate as N 10.0 9.874 80 - 120

Lab Sample ID: LCSD 860-34289/5

**Matrix: Water** 

**Analysis Batch: 34289** 

LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 10.0 Nitrate as N 9.682 mg/L 97 80 - 120

Lab Sample ID: 880-9312-A-1 MS

**Matrix: Water** 

**Analysis Batch: 34289** 

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Nitrate as N 0.136 10.0 9 483 mg/L 93 80 - 120

Lab Sample ID: 880-9312-A-1 MSD

**Matrix: Water** 

Analysis Batch: 34289

Analysis Baton. 04200	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte			Added			Unit	n	%Rec	Limits	RPD	Limit	
	Result	Qualifier		Result	Qualifier	Unit		70KeC	Lillius	KFD	LIIIII	
Nitrate as N	0.136		10.0	9.475		mg/L		93	80 - 120	0	15	

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Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Matrix Spike

### QC Sample Results

Client: Talon/LPE Job ID: 890-1710-1 Project/Site: CS Caylor SDG: Lea County

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-34529/1-A

**Matrix: Water** 

Analysis Batch: 34680

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 34529

мв мв

Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Manganese <0.00200 U 0.00200 0.000199 mg/L 12/16/21 09:45 12/16/21 18:05

Lab Sample ID: LCS 860-34529/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Prep Batch: 34529

**Analysis Batch: 34680** Spike LCS LCS %Rec.

Added Analyte Result Qualifier Unit D %Rec Limits Manganese 0.100 0.1011 mg/L 101 80 - 120

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 860-34529/3-A

**Matrix: Water** Prep Type: Total/NA Analysis Batch: 34680 Prep Batch: 34529

LCSD LCSD RPD Spike %Rec. Added Result Qualifier Unit D %Rec Limits RPD Limit

0.100 Manganese 0.09991 mg/L 100 80 - 120

Lab Sample ID: 840-664-A-1-B MS Client Sample ID: Matrix Spike

**Matrix: Water** Prep Type: Total/NA Prep Batch: 34529

**Analysis Batch: 34680** MS MS %Rec. Spike Sample Sample

Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Manganese 0.0123 0.100 0.1092 75 - 125 mg/L

Lab Sample ID: 840-664-A-1-C MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 34680

Prep Batch: 34529 Sample Sample Spike MSD MSD %Rec. RPD

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Manganese 0.0123 0.100 0.1076 mg/L 95 75 - 125 20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-34642/4 Client Sample ID: Method Blank

**Matrix: Water** Prep Type: Total/NA Analysis Batch: 34642

MB MB

Result Qualifier RL MDL Unit D Dil Fac Analyte Prepared Analyzed Alkalinity <4.00 U 4.00 4.00 mg/L 12/16/21 12:39 Bicarbonate Alkalinity as CaCO3 <4.00 U 4.00 4.00 mg/L 12/16/21 12:39 Carbonate Alkalinity as CaCO3 <4 00 LI 4.00 4.00 mg/L 12/16/21 12:39 Hydroxide Alkalinity <4.00 U 4.00 12/16/21 12:39 4.00 mg/L Phenolphthalein Alkalinity <4.00 U 4.00 12/16/21 12:39 4.00 mg/L

Lab Sample ID: LCS 860-34642/5 Client Sample ID: Lab Control Sample

**Matrix: Water** Prep Type: Total/NA Analysis Batch: 34642

Spike LCS LCS %Rec.

Added Result Qualifier Analyte Unit D %Rec Limits Alkalinity 250 236.0 85 - 115 mg/L 94

Client: Talon/LPE Job ID: 890-1710-1 Project/Site: CS Caylor SDG: Lea County

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-34642/6

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 34642

**Matrix: Water** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D Alkalinity 250 238.3 mg/L 95 85 - 115 20

Lab Sample ID: 860-16989-A-5 DU **Client Sample ID: Duplicate Matrix: Water** 

Prep Type: Total/NA

**Analysis Batch: 34642** 

Sample Sample DU DU RPD Qualifier Result Qualifier RPD Limit Analyte Result Unit Alkalinity 377 384.5 mg/L 2 20 Bicarbonate Alkalinity as CaCO3 377 384.5 2 20 mg/L Carbonate Alkalinity as CaCO3 <4.00 U <4.00 U mg/L NC 20 Hydroxide Alkalinity <4.00 U 20 <4 00 U mg/L NC Phenolphthalein Alkalinity <4.00 U <4.00 U mg/L NC 20

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 860-35548/3 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 35548** 

MB MB

MDL Unit Result Qualifier Dil Fac Analyte RLD Prepared Analyzed 0.0500 <0.0500 U 0.0280 mg/L 12/16/21 19:48 Ferrous Iron

Lab Sample ID: LCS 860-35548/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 35548** 

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit %Rec Limits Ferrous Iron 1.00 0.9300 93 mg/L

Lab Sample ID: LCSD 860-35548/5 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 35548

Spike LCSD LCSD RPD %Rec. Analyte Added Qualifier Unit %Rec Limits RPD Limit Result Ferrous Iron 1.00 0.9200 75 - 125 mg/L

Lab Sample ID: 890-1710-2 DU Client Sample ID: MW-6A Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 35548

7 many one Battern eve it									
	Sample	Sample	DU	DU				1	RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPI	ו כ	Limit
Ferrous Iron	<0.0500	U HF	<0.0500	U	mg/L		NO	5	25

### **QC Association Summary**

Client: Talon/LPE Job ID: 890-1710-1
Project/Site: CS Caylor SDG: Lea County

### **GC VOA**

### Analysis Batch: 34534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1710-1	MW-10A	Total/NA	Water	RSK-175	
890-1710-2	MW-6A	Total/NA	Water	RSK-175	
890-1710-3	MW-11A	Total/NA	Water	RSK-175	
MB 860-34534/6	Method Blank	Total/NA	Water	RSK-175	
LCS 860-34534/7	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 860-34534/8	Lab Control Sample Dup	Total/NA	Water	RSK-175	

### HPLC/IC

### Analysis Batch: 34288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1710-1	MW-10A	Total/NA	Water	300.0	
890-1710-2	MW-6A	Total/NA	Water	300.0	
890-1710-3	MW-11A	Total/NA	Water	300.0	
MB 860-34288/3	Method Blank	Total/NA	Water	300.0	
LCS 860-34288/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-34288/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-9312-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
880-9312-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

### Analysis Batch: 34289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1710-1	MW-10A	Total/NA	Water	300.0	
890-1710-2	MW-6A	Total/NA	Water	300.0	
890-1710-3	MW-11A	Total/NA	Water	300.0	
MB 860-34289/3	Method Blank	Total/NA	Water	300.0	
LCS 860-34289/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-34289/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-9312-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
880-9312-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

### **Metals**

### Prep Batch: 34529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1710-1	MW-10A	Total/NA	Water	3010A	
890-1710-2	MW-6A	Total/NA	Water	3010A	
890-1710-3	MW-11A	Total/NA	Water	3010A	
MB 860-34529/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-34529/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-34529/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
840-664-A-1-B MS	Matrix Spike	Total/NA	Water	3010A	
840-664-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	

### Analysis Batch: 34680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1710-1	MW-10A	Total/NA	Water	6020A	34529
890-1710-2	MW-6A	Total/NA	Water	6020A	34529
890-1710-3	MW-11A	Total/NA	Water	6020A	34529
MB 860-34529/1-A	Method Blank	Total/NA	Water	6020A	34529
LCS 860-34529/2-A	Lab Control Sample	Total/NA	Water	6020A	34529
LCSD 860-34529/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	34529

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### **QC Association Summary**

Client: Talon/LPE Job ID: 890-1710-1 Project/Site: CS Caylor SDG: Lea County

### **Metals (Continued)**

### Analysis Batch: 34680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-664-A-1-B MS	Matrix Spike	Total/NA	Water	6020A	34529
840-664-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6020A	34529

### **General Chemistry**

### Analysis Batch: 34642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1710-1	MW-10A	Total/NA	Water	SM 2320B	
890-1710-2	MW-6A	Total/NA	Water	SM 2320B	
890-1710-3	MW-11A	Total/NA	Water	SM 2320B	
MB 860-34642/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-34642/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-34642/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
860-16989-A-5 DU	Duplicate	Total/NA	Water	SM 2320B	

### Analysis Batch: 35548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1710-1	MW-10A	Total/NA	Water	SM 3500 FE D	
890-1710-2	MW-6A	Total/NA	Water	SM 3500 FE D	
890-1710-3	MW-11A	Total/NA	Water	SM 3500 FE D	
MB 860-35548/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 860-35548/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCSD 860-35548/5	Lab Control Sample Dup	Total/NA	Water	SM 3500 FE D	
890-1710-2 DU	MW-6A	Total/NA	Water	SM 3500 FE D	

Client: Talon/LPE Job ID: 890-1710-1 Project/Site: CS Caylor SDG: Lea County

Client Sample ID: MW-10A

Date Received: 12/14/21 13:45

Lab Sample ID: 890-1710-1 Date Collected: 12/14/21 08:50

**Matrix: Water** 

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA RSK-175 33 mL 33 mL 34534 12/16/21 18:13 CZT XEN STF Analysis Total/NA Analysis 300.0 34288 12/15/21 18:25 WP XEN STF Total/NA 300.0 34289 12/15/21 18:25 WP XEN STF Analysis 1 Total/NA Prep 3010A 50 mL 50 mL 34529 12/16/21 09:45 MD XEN STF 6020A 34680 Total/NA 12/16/21 19:33 DCL XEN STF Analysis 1 Total/NA Analysis SM 2320B 34642 12/16/21 13:24 YGG XEN STF 1 Total/NA SM 3500 FE D 25 mL 35548 12/16/21 19:48 CM<sub>1</sub> XEN STF Analysis 1 25 mL

Client Sample ID: MW-6A Lab Sample ID: 890-1710-2

Date Collected: 12/14/21 10:36 **Matrix: Water** Date Received: 12/14/21 13:45

Dil Batch Batch Initial Final Batch Prepared Method Prep Type Type Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA **RSK-175** 33 mL 33 mL 34534 12/16/21 18:30 CZT XEN STF Analysis Total/NA 300.0 34288 Analysis 1 12/15/21 18:38 WP XEN STF Total/NA 300.0 34289 XEN STF Analysis 1 12/15/21 18:38 WP Total/NA Prep 3010A 50 mL 50 mL 34529 12/16/21 09:45 MD XEN STF Total/NA Analysis 6020A 34680 12/16/21 19:36 DCL XEN STF Total/NA Analysis SM 2320B 1 34642 12/16/21 13:41 YGG **XEN STF** Total/NA Analysis SM 3500 FE D 25 mL 35548 12/16/21 19:48 CM1 XEN STF 1 25 mL

Lab Sample ID: 890-1710-3 Client Sample ID: MW-11A **Matrix: Water** 

Date Collected: 12/14/21 12:06 Date Received: 12/14/21 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	33 mL	33 mL	34534	12/16/21 18:46	CZT	XEN STF
Total/NA	Analysis	300.0		1			34288	12/15/21 18:51	WP	XEN STF
Total/NA	Analysis	300.0		1			34289	12/15/21 18:51	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	34529	12/16/21 09:45	MD	XEN STF
Total/NA	Analysis	6020A		1			34680	12/16/21 19:40	DCL	XEN STF
Total/NA	Analysis	SM 2320B		1			34642	12/16/21 13:32	YGG	XEN STF
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	35548	12/16/21 19:48	CM1	XEN STF

**Laboratory References:** 

XEN STF = Eurofins Xenco, Stafford, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

### **Accreditation/Certification Summary**

Client: Talon/LPE Job ID: 890-1710-1 Project/Site: CS Caylor SDG: Lea County

### Laboratory: Eurofins Xenco, Stafford

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	LAP	T104704215-21-44	06-30-22
0 ,		t the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for whi
the agency does not of Analysis Method	Prep Method	Matrix	Analyte	
SM 2320B		Water	Bicarbonate Alkalinity as CaCo	O3
SM 2320B		Water	Carbonate Alkalinity as CaCO	3
01100000		Water	Hydroxide Alkalinity	
SM 2320B				
SM 2320B SM 2320B		Water	Phenolphthalein Alkalinity	

### **Method Summary**

Client: Talon/LPE Job ID: 890-1710-1
Project/Site: CS Caylor SDG: Lea County

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
6020A	Metals (ICP/MS)	SW846	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	XEN STF
3010A	Preparation, Total Metals	SW846	XEN STF

### **Protocol References:**

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### **Laboratory References:**

XEN STF = Eurofins Xenco, Stafford, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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### **Sample Summary**

Client: Talon/LPE Job ID: 890-1710-1 Project/Site: CS Caylor SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1710-1	MW-10A	Water	12/14/21 08:50	12/14/21 13:45
890-1710-2	MW-6A	Water	12/14/21 10:36	12/14/21 13:45
890-1710-3	MW-11A	Water	12/14/21 12:06	12/14/21 13:45

Relinquished by: (Signature)

Received by: (Signature)

2-14-21 Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

eurofins

Xenco

**Environment Testing** 

## **Chain of Custody**

Preservative Codes	EQUEST	ANALYSIS REQUEST	Turn Around
Other:	Deliverables: EDD	alon/pe.com	mail: dadkins@ talonlec.com
I/UST   TRRP   Level IV	Reporting: Level III Level III PST/UST TRRP Level IV	SRS# 2002-10250	City, State ZIP:
]	State of Project:	Attn. Carrille Bryant	Address:
nfields ☐ RRC ☐ Superfund ☐	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐	Pipeline	Company Name:
Comments	Work Order Comments	Plains All American	Bill to: (if different)
Page ' of /	www.xenco.com Page_		
		Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, NM (
		EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	EL Paso, TX
	Work Order No:	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Midland, TX (4
		Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300	Houston, T)

Phone:

Altesia, NM 408 Texas S

Company Name:

Talon LPE

David Adkins

Project Manager:

Address: Attn. Canike	1styan1	state of Florect.	
City, State ZIP: 1/75/a, N/1 (8210   City, State ZIP: 1575 # 2004 - 10250	10250	Reporting: Level II   Level III   F	Reporting: Level III   Follooi   Invit   Level IV
		Deliverables: EDD	ADaPT U Other:
Project Name: CS Caylor Turn Around	ANALYSIS REQI	DUEST	Preservative Codes
er: 🔲 🖂 Rout			None: NO DI Water: H <sub>2</sub> O
Project Location: Lea County Due Date:	_		<u>~</u>
D. Winck			
SRS# 8002-10250 the lab, if received by 4:30pm			H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub> NaOH: Na
SAMPLE RECEIPT Temp Blank: (Yes) No Wet Ice: Yes) No et 2			H <sub>3</sub> PO <sub>4</sub> ; HP
			NaHSO4: NABIS
Pä	890-1710 Chain of Custody	Custody	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>
Sample Custody Seals: Yes No N/A Temperature Reading: 14,4	-		Zn Acetate+NaOH: Zn
Corrected Temperature: 14.2			NaOH+Ascorbic Acid: SAPC
Sample Identification  Matrix  Sampled  Date  Time  Sampled  Depth  Comp  Cont  Comp			Sample Comments
MW-10A GW 12/14/41 8:50 N/A 7 X			Email Analyticals
) ) \			to
) ) )			CTByant @ Pac D. com
			AL Groves & Pacifo. com
			Ma Ochool Pasp.com
Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca	a Cr Co Cu Fe Pb	Mg Mn Mo Ni K Se	Na Sr TI Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co	Cu Pb	Mn Mo Ni Se Ag TI U Hg: 1631	Hg: 1631 / 245.1 / 7470 / 7471
Votice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions to the control of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control	affiliates and subcontractors by the client if such losses a	b. It assigns standard terms and conditions are due to circumstances beyond the control	
of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	but not analyzed. These term	ns will be enforced unless previously regon.	ated.

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**Chain of Custody Record** 

Carlsbad, NM 88220 Phone: 575-988-3199 Fax: 575-988-3199

Eurofins Xenco, Carlsbad 1089 N Canal St.

	Sampler	Lab PM:	M:			Carrier Tracking No(s)	ding No(s):		COC No:	
Client Information (Sub Contract Lab)		Kran	Kramer Jessica			-			890-545.1	
Chipping/Receiving	rione:	E-Mall. jessic	г-ман. jessica.kramer@eurofinset.com	urofinset.c	om	New Mexico	≅ 8.		Page: Page 1 of 1	
Company: Eurofins Xenco			Accreditations Required (See note) NELAP Texas	equired (See as	note):				Job#: 890-1710-1	
Address:	Due Date Requested:				- de de de de	10000			Preservation Codes	.;s
4 140 GEETIDIES DI	112/20/2021 TAT Beauted (42.02):			`  -	Analysis r	Analysis Kequested	ŀ	-	A HGL	
Stafford	TAT Kequested (days):								B NaOH C Zn Acetate	
State, Zip: TX, 77477				•					D Ntric Acid E NaHSO4	P Na2O4S Q Na2SO3
Phone: 281-240-4200(Tel)	PO#:		(0						F MeOH G Amchlor H Ascorbic Acid	R Na2S2O3 S H2SO4 T TSP Dodeczhydrate
Email:	WO#.							,6	_ ¬	
Project Name: CS Caylor	Project #: 89000047		A 10 at					genlsi	K EDTA L EDA	W pH 4-5 Z other (specify)
Site	SSOW#:		y) de	oul auoi	OD) W			nos ĵo	Other:	
	Sample	Sample Matrix Type Seolid.	d Filtered, 1 MS/M mioi DRGFM_28	_ORGFMS/ (I FED/ Fen BB/ Alkailnit/	M) A0106\A(			aedmūk) la		
Sample Identification Client ID (Lab ID)	Sample Date Time	G=grab) B1-Tissue, A-Ar)	300°	3000	209		: ; ; ; ; ;	.16T		Special Instructions/Note:
作権(権) の		Preservation Code	X	3	in a			X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
MW-10A (890-1710-1)	12/14/21 08:50 Mountain	Water	×	×	×			Ţ		
MW-6A (890-1710-2)	12/14/21 Mountain	Water	` ×	×	×			7.		
MW-11A (890-1710-3)	12/14/21 12:06 Mountain	Water	( x	x	×			7		
								i		
				ıemp:	∟୯	D IK 10'HOU-223	527-			
				5 8	C/F·+0.0 J	8, S				
				1-	-			4		
Note: Since abboratory accreditations are subject to change. Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipmed the Change is the elements of changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	ilaces the ownership of method, anal eing analyzed, the samples must be e signed Chain of Custody attesting t	yte & accreditation complianc shipped back to the Eurofins to said complicance to Eurofin	e upon oul subco Xenco LLC labon s Xenco LLC.	intract labors atory or othe	lones. This sar instructions wi	nple shipment is I be provided. At	forwarded und ny changes to	er chain-of-c accreditation	ustody. If the laborato status should be brou	ny does not currently ght to Eurofins Xenco LLC
Possible Hazard Identification			Sample D	isposal (	4 fee may b	e assessed i	samples a	re retaine	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	month)
Unconfirmed			Ret	Return To Client	ınt	→ Disposal By Lab	. Lab	☐ Arch	Archive For	Months
Deliverable Requested: I III IV Other (specify)	Primary Deliverable Rank; 2		Special In	structions/	Special Instructions/QC Requirements	nents.				
Empty Kit Relinquished by	Date:		Time:			Metho	Method of Shipment:			
21 1000() in	paterine:	Company	Received	から			Date/Time:	e:		Сотрапу
Relinquis bed by	Date/Time:	Company	Receives		\		S.//2.1.	12/81	(gC)	Some Source
Relinquished by:	Date/Time.	Company	Rebeived by	Ä d d			Date/Time:			Company
Custody Seals Intact: Custody Seal No.			Cooler 1	emperature	Cooler Temperature(s) C and Other Remarks:	Remarks:				
D 1 € 2 D 1 4 D			-							

### **Login Sample Receipt Checklist**

Client: Talon/LPE

Job Number: 890-1710-1

SDG Number: Lea County

List Source: Eurofins Xenco, Carlsbad

Login Number: 1710 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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### **Login Sample Receipt Checklist**

Client: Talon/LPE

Job Number: 890-1710-1

SDG Number: Lea County

List Source: Eurofins Xenco, Stafford
List Number: 2
List Creation: 12/15/21 04:30 PM

Creator: Milone, Jeancarlo

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 92565

### CONDITIONS

Operator:	OGRID:
PLAINS MARKETING L.P.	34053
333 Clay Street Suite 1900	Action Number:
Houston, TX 77002	92565
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

### CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2021 ANNUAL GROUNDWATER MONITORING REPORT: Content satisfactory Contractor recommendations approved and are as follows; 1. Continue quarterly groundwater monitoring events in accordance with NMOCD directives 2. Continue operation and maintenance of the groundwater recovery system 3. Submit annual report to NMOCD no later than March 31,2023.	8/3/2022