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2020 ANNUAL GROUNDWATER MONITORING REPORT 8" MOORE TO JAL #2

LEA COUNTY, NEW MEXICO
SRS #2002—10273
NMOCD REF. # AP-92, nAPP2109527131

Prepared For:
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January 13, 2021

APPROVED

By Nelson Velez at 9:54 am, Jan 11, 2022

Review of 2020 ANNUAL GROUNDWATER
MONITORING REPORT:

Content satisfactory

Contractor recommendations approved and are as follows;

1. Continue operation and maintenance of the groundwater recovery system
2. Perform quarterly groundwater monitoring events in accordance with NMOCD directives
3. OCD approves discontinuing sampling for PAH in groundwater monitoring wells MW-3A, MW-4A, MW-7, MW-8, MW-9, MW-18, MW-22 and MW-23.
4. OCD will approve sampling termination from monitoring wells that have exhibited no evidence of contamination above regulatory limits for eight (8) consecutive quarters
5. OCD approves wells MW-11, MW-17, MW-18, MW-19, and MW-20 be sampled on a semi-annual basis
6. Submit annual report to OCD no later than March 31, 2022.



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NMOCD - New Mexico Oil Conservation Division

NMSLO – New Mexico State Land Office

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1.0 INTRODUCTION AND OBJECTIVES

1.1 Objectives and Site Background

The 8" Moore to Jal #2 (site) is located approximately 9.2 miles southeast of Lovington in Unit Letter J, Section 16, Township 17 South and Range 37 East in Lea County, New Mexico, on property owned by the State of New Mexico. The site is located within the West Lovington Oil Field at 32° 49' 56.61" N, 103° 15' 08.47" W. There are no residences, groundwater wells, or surface water bodies within a 1,000-foot radius of the site. The initial release occurred from an EOTT Energy Pipeline (EOTT) steel pipeline on October 22, 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 25 barrels (bbls) of crude oil were released. Approximately 5,794 square feet of surface area was impacted by the release.

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 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 43% sand, 18% clay and 40% silt and also contains abundant eroded gravel to cobble size caliche fragments. Below the top soil is predominately unconsolidated sand to weakly cemented sandstone which has undergone calichification of varying extent.

Below the Blackwater Draw Formation is the Ogallala Formation of Miocene to Pliocene age. The Ogallala Formation was deposited from sediments eroded from the Southern Rockies and consists mostly of eolian sediments, silty to very fine sand or loess. During the middle to late Miocene, 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.

1.3 Previous Environmental Investigations

Currently, there are a total of 23 groundwater monitor wells existing 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 July 2004. Subsequently, groundwater monitor wells MW-2, MW-3, and MW-4 were installed in October 2004, monitor wells MW-6 through MW-13 were installed in November 2007, MW-14 through MW-16 were installed in March of 2010 and MW-17 through MW-21 were installed in August of 2010. Replacement wells MW-3A and MW-4A, and down-gradient

monitor wells MW-22 and MW-23 were installed in December of 2013.

Phase-separated hydrocarbon (PSH) recovery operations have been performed at the site since 2004. Currently, there are five (5) total fluid pumps in operation at the site used to recover PSH. Table 1, which summarizes historical groundwater and PSH gauging, is provided in Appendix B.

A transfer system was installed during the year 2011 that is designed to pump recovered groundwater from the site to the Rocky Smith SWD Systems, State 'E' #23 salt water disposal (SWD) (NMOCD # 307219) facility, thereby eliminating the need to haul water to a disposal facility with a vacuum truck. The system is composed of a three (3) inch HDPE line that was installed (slip-lined) into the out of service Moore to Jal eight (8) inch pipeline from the site through the Moore to Jal #1 site to the C.S. Caylor site, where it is connected to the HDPE line that runs from the Caylor site to the afore referenced SWD. A five (5) HP transfer pump is used to impel the water down the HDPE line. One (1) Mobile dual-phase extraction (MDPE) event was conducted on March 17, 2020.

1.4 Regulatory Framework

Groundwater analytical data collected from this site is 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

The subsequent sections of this report provide summaries of the groundwater monitoring activities that were conducted at the subject site during the year 2020 as well as analytical results from each groundwater sampling event. Cumulative analytical results for the four (4) 2020 sampling events are summarized in Table 2 and 3, in Appendix B, and Figures 1, 2a through 2d, and 3a through 3d in Appendix A. Laboratory analytical data reports and chain of custody documentation are included in Appendix C.

2.0 SITE ACTIVITIES

The sections that follow summarize groundwater monitoring and PSH recovery activities conducted at the subject site during the year 2020. 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 and 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 overall 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 Site Assessment Activities

A 4-inch diameter replacement monitor well for MW-21 was installed on September 2, 2020. The replacement well is identified as MW-21A and has a total depth of one-hundred fifteen (115) feet below ground surface (bgs) with twenty (20) feet of screen. The well (MW-21) was inadvertently destroyed by a local contractor during work activities in the area and annotated by the technician during the second quarterly monitoring event. The replacement well, MW-21A, has been permitted through the New Mexico Office of the State engineer (NMOSE).

The location of the well can be found on the updated **Figure 1 – Site Plan** in **Appendix A**. The monitor well was installed by a New Mexico licensed driller from Talon/LPE.

2.2 Groundwater Monitoring Activities

A total of four (4) groundwater monitoring events were conducted by Talon during the year 2020. The events occurred in: March, June, September, and December.

During the March 2020 event, groundwater samples were collected from eighteen (18) monitor wells: MW-3A, MW-4A, MW-5 through MW-13, and MW-17 through MW-23. Groundwater samples were not collected from four (4) monitor wells due to the wells being dry (MW-2, and MW-14 through MW-16) and one (1) well (MW-1) was purged dry without recovery. Details of the gauging, purging, and sampling activities are presented below in Section 2.3.

During the June 2020 event, groundwater samples were collected from seventeen (17) monitor wells: MW-3A, MW-4A, MW-5 through MW-13, MW-17 through MW-20, MW-22, and MW-23. Groundwater samples were not collected from four (4) monitor wells due to the wells being dry (MW-2, and MW-14 through MW-16), one (1) well (MW-1) was purged

dry and never recovered, and one (1) well (MW-21) was destroyed prior to sampling event with NMOSE permitting pending. Details of the gauging, purging, and sampling activities are presented below in Section 2.3.

During the September 2020 event, groundwater samples were collected from seventeen (17) monitor wells: MW-3A, MW-4A, MW-5, MW-6, MW-8 through MW-13, MW-17 through MW-20, MW-21A, MW-22, and MW-23. Groundwater samples were not collected from five (5) monitor wells due to the wells being dry (MW-1, MW-2, and MW-14 through MW-16) and one (1) well for having PSH (MW-7). Details of the gauging, purging, and sampling activities are presented below in Section 2.3.

During the December 2020 event, groundwater samples were collected from eighteen (18) monitor wells: MW-3A, MW-4A, MW-5 through MW-13, MW-17 through MW-20, MW-21A, MW-22, and MW-23. Groundwater samples were not collected from five (5) monitor wells due to being dry (MW-1, MW-2, and MW-14 through MW-16). Details of the gauging, purging, and sampling activities are presented below in Section 2.3.

2.3 Groundwater Gauging, Purging, and Sampling Procedures

During each groundwater monitoring event, all monitor wells were measured with an oil/water interface probe to determine static water levels and PSH thicknesses, if present. The data collected from measurements were used to construct groundwater gradient maps and PSH thickness maps. Table 1 – Summary of Historical Fluid Level Measurements contains all depth to fluid data collected during 2020.

Subsequent to gauging, all monitor wells 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 contained in 55-gallon drums. After the groundwater monitoring event, all retained water was deposited into the on-site tank and later removed via the site transfer system to the SWD.

Groundwater samples were collected from all monitor wells not impacted with PSH using dedicated disposable polyethylene bailers. Groundwater samples were not collected from wells impacted with PSH. All samples were contained in appropriately preserved laboratory supplied sample vials required for the requested analysis. The samples were maintained on ice, in the custody of Talon personnel, until delivery to Xenco Laboratories in Midland, Texas for analysis. The groundwater samples collected during 2020 were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method SW-846 8021B. Groundwater samples collected from nine wells during the March 2020 event were analyzed for polycyclic aromatic hydrocarbons PAH by EPA Method 8270C.

2.4 Phase Separated Hydrocarbon Recovery

Prior to October 2008, a mobile recovery trailer with total fluids pumps was mobilized to the site on a weekly basis to recover PSH from monitor wells MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-9.

On October 7, 2008, a permanent system was installed utilizing two (2) AP-4 pneumatic total fluid pumps in monitor wells MW-1 and MW-7 and four (4) skimmers in monitor wells MW-3, MW-5, MW-6, and MW-9 to recover PSH and to inhibit migration of the PSH plume. In 2013, the skimmer pumps in MW-5 and MW-6 were replaced with total fluids pumps. In 2014, the skimmer pump in MW-9 was replaced with a total fluids pump. The system of total fluids pumps are powered by a single-phase, 230-volt, 7.5 HP two-stage reciprocating air compressor. Fluid recovered by the pumps is retained in a 6,250-gallon poly tank. The tank is equipped with a high level shut off switch to prevent overflow and it is located within a secondary containment compound that is outfitted with a poly-liner. Recovered PSH is periodically removed from the recovery tank with a vacuum truck. Recovered groundwater was transported to an approved NMOCD disposal facility via the water transfer system, and removed PSH was re-introduced to the Plains' pipeline system at the Plains operated Lea Station.

Currently, the recovered fluids upon reaching pre-determined level within the holding tank engage a head pressure switch which in turn operates a fluid transfer pump. When the pump is engaged the recovered fluids are transferred to a 4-inch HDPE line shared with recovered PSH and water from the Moore to Jal #1 and C.S. Caylor groundwater recovery systems. A five (5) HP transfer pump then impels the fluids to the Apollo SWD System for disposal.

Talon personnel performed a minimum of weekly maintenance to the remediation system to ensure efficient operation, to optimize PSH recovery and to minimize down time. The poly tank is gauged weekly to monitor PSH recovery volume.

During 2020, the quarterly PSH and groundwater recovery totals from the system are as follows:

- 1st Quarter - 0 bbls crude oil and 894 bbls of groundwater
- 2nd Quarter - 0 bbls crude oil and 885.2 bbls of groundwater
- 3rd Quarter - 0 bbls crude oil and 599.0 bbls of groundwater
- 4th Quarter – 0 bbls crude oil and 540.3 bbls of groundwater

In addition to system recovery, one (1) MDPE event, in which vapor PSH was recovered, was conducted on site during 2020. The MDPE event recovery totals are as follows:

- March 17, 2020 – 0.22 bbls vapor, 0 bbls liquid, 4.52 bbls groundwater

During 2020, a total of 0.22 bbls of crude oil and a total of 2,923.02 bbls of groundwater were recovered by the PSH recovery system and MDPE event. Approximately 230.73 bbls of crude oil have been recovered at the subject site since PSH recovery activities were initiated.

3.0 GROUNDWATER AND MONITORING RESULTS

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

3.1 Groundwater Monitoring Results

The sections that follow present the results from the four (4) groundwater monitoring events conducted at the subject site.

3.1.1 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 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, including all or part of 31 counties in Texas and six (6) counties in New Mexico.

The Ogallala Aquifer is generally unconfined and the potentiometric surface generally mimics the topography with the regional flow direction being from the northwest to the southeast. The mean regional gradient is 15 feet per mile and the typical groundwater velocity averages seven inches per day. The regional hydraulic conductivity averages 17 gallons per day per square-foot and specific yield averages 16%.

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

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

3.1.2 Groundwater Gradient and Flow Direction

The depth to fluid measurements was collected during each of the four (4) groundwater monitoring events during the year 2020. The results of the fluid level measurements are summarized in Table 1 - Summary of Historical Fluid Level Measurements in Appendix B.

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.

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

- March 18, 2020
- June 16, 2020
- September 18, 2020
- December 2, 2020

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

The potentiometric surface map for March 18, 2020 is constructed using water level elevations from all wells. The water level elevations exhibit a general groundwater direction of flow to the southeast with an approximate gradient of 0.0031 feet/foot.

The potentiometric surface map for June 16, 2020 is constructed using water level elevations from all wells. The water level elevations exhibit a general groundwater direction of flow to the south-southeast with an approximate gradient of 0.0033 feet/foot.

The potentiometric surface map for September 18, 2020 is constructed using water level elevations from all wells. The water level elevations exhibit a general groundwater direction of flow to the southeast with an approximate gradient of 0.0029 feet/foot.

The potentiometric surface map for December 2, 2020 is constructed using water level elevations from all wells. The water level elevations exhibit a general groundwater direction of flow to the southeast with an approximate gradient of 0.0033 feet/foot.

Groundwater elevations at the subject site declined approximately 1.61 feet for the year, which is consistent with the regional declining trend of groundwater levels in the Ogallala Aquifer.

3.1.3 Phase Separated Hydrocarbon (PSH)

An oil/water interface probe was used to determine the thicknesses of PSH during the four (4) groundwater monitoring events. This will be denoted in Table 1 - Summary of Historical Fluid Level Measurements in Appendix B. The following summarizes the status of the PSH thicknesses observed during the four (4) groundwater monitoring events:

- In March 2020, PSH was not observed in any monitor wells.
- In June 2020, PSH was not observed in any monitor wells.
- In September 2020, 0.02 feet of PSH was measured in monitor well MW-7.
- In December 2020, PSH was not observed in any monitor wells.

In addition to potentiometric surface maps, isopleth maps were prepared depicting the measured PSH thicknesses and PSH plume geometry. PSH plume delineation and thickness maps are presented in Appendix A as Figures 3a through 3d. PSH was detected during only one of the four groundwater monitoring events in 2020, as noted above.

PSH recovery operations have been performed at the site since 2004. Currently, there are a total of five (5) total fluid pumps in operation at the site. A summary of the historical groundwater and PSH gauging results is provided in Table 1 in Appendix B.

3.1.4 Groundwater Analytical Results

During the March 2020 event, groundwater samples were collected from eighteen (18) monitor wells: MW-3A, MW-4A, MW-5 through MW-13, and MW-17 through MW-23.

Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from less than the laboratory method detection limit (MDL) in wells MW-3A, MW-4A, MW-8, MW-11, MW-12, MW-13, MW-17, MW-18, MW-22, and MW-23 to 0.246 mg/L in MW-9. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-6, MW-7, MW-9.
- Toluene concentrations ranged from less than the laboratory MDL in wells MW-3A, MW-4A, MW-8, MW-10 through MW-13, MW-17, MW-18, MW-19, MW-22, and MW-23 to 0.00730 mg/L in MW-7. 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 wells MW-3A, MW-4A, MW-6, MW-8, MW-11, MW-12, MW-13, MW-17, MW-22 and MW-23 to 0.0718 mg/L in MW-9. 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 wells MW-3A, MW-4A, MW-8, MW-11, MW-12, MW-13, MW-17, MW-19, MW-22, and MW-23 to 0.137 mg/L in MW-9. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the monitor wells sampled during the quarter.
- Naphthalene concentrations ranged from less than the laboratory MDL in wells MW-6, MW-7, MW-8, MW-18, MW-22, and MW-23 to 0.00573 mg/L in MW-9. The naphthalene concentrations did not exceed the NMWQCC groundwater standard of 0.030 mg/L in any wells sampled.
- Benzo(a)pyrene concentrations were less than the laboratory MDL in all of the sampled wells. The benzo(a)pyrene concentrations did not exceed the NMWQCC groundwater standard of 0.007 mg/L this quarter.

During the June 2020 event, groundwater samples were collected from seventeen (17) monitor wells: MW-3A, MW-4A, MW-5 through MW-13, MW-17 through MW-20, MW-22, and MW-23.

Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from less than the laboratory MDL in wells MW-3A, MW-4A, MW-10, and MW-11 to 0.158 mg/L in MW-9. Benzene concentrations

exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-7 and MW-9.

- Toluene concentrations ranged from less than the laboratory MDL in all wells except for MW-5 which had a concentration of 0.00206 mg/L, MW-6 had a concentration of 0.00376 mg/L, MW-7 had a concentration of 0.00183 mg/L, and MW-17 had a concentration of 0.000500 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 ranged from less than the laboratory MDL in all wells except for MW-7 which had a concentration of 0.0288 mg/L and MW-9 with a concentration of 0.0493 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 all wells except for MW-7 which had a concentration of 0.0496 mg/L and MW-9 with a concentration of 0.0856 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 September 2020 event, groundwater samples were collected from seventeen (17) monitor wells: MW-3A, MW-4A, MW-5, MW-6, MW-8 through MW-13, MW-17 through MW-20, MW-21A, MW-22, and MW-23.

Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from 0.00468 mg/L in MW-21A to 0.0726 mg/L in MW-9. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-9, MW-10, MW-12, MW-13, MW-22, and MW-23.
- Toluene concentrations ranged from less than the laboratory MDL in all wells except for MW-5 which had a concentration of 0.00268 mg/L, MW-6 with a concentration of 0.00215 mg/L, MW-9 with a concentration of 0.00124 mg/L, and MW-22 with a concentration of 0.000570 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 ranged from less than the laboratory MDL in all wells except for MW-9 which had a concentration of 0.0139 mg/L, MW-12 with a concentration of 0.00196 mg/L, MW-22 with a concentration of 0.00296 mg/L, and MW-23 with a concentration of 0.00178 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 all wells except for MW-9 which had a concentration of 0.0270 mg/L and MW-12 with a concentration of 0.000850 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 December 2020 event, groundwater samples were collected from eighteen (18) monitor wells: MW-3A, MW-4A, MW-5 through MW-13, MW-17 through MW-20, MW-21A, MW-22, and MW-23.

Laboratory analytical results of the groundwater samples collected exhibited the following findings:

- Benzene concentrations ranged from 0.000590 mg/L in MW-10 to 0.154 mg/L in MW-9. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-6 and MW-9.
- Toluene concentrations ranged from less than the laboratory MDL in MW-19 to 0.0217 mg/L in MW-6. 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 wells MW-3A, MW-4A, MW-10 through MW-12, MW-19, MW-20, and MW-22 to 0.0359 mg/L in MW-9. 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 MW-13 to 0.04010 mg/L in MW-9. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the monitor wells.

The results of the BTEX analysis are summarized in Table 2 – Summary of Historical Groundwater Analytical Results – BTEX and results of the PAH analyses are summarized in Table 3 – Summary of Historical Groundwater Analytical Results – PAH Supplement in Appendix B. Laboratory analytical data reports and chain of custody documentation for all samples are provided in Appendix C.

3.2 Groundwater Monitoring Well Installation

One (1) 4-inch diameter replacement monitor well for MW-21 was installed on September 2, 2020.

Talon supervised the advancement, installation, and sampling of the 4-inch diameter monitor well using mud rotary techniques. The well was installed to replace a destroyed well that occurred between the first and second quarterly monitoring events. The location of the monitor well is presented on Figure 1. The monitor well was installed by a licensed State of

New Mexico well driller. State of New Mexico Well Reports and Monitoring Well Logs are provided in Appendix D.

The monitoring well was constructed using flush-joint schedule 40, polyvinyl chloride (PVC) and factory slotted 0.010-inch screen. A sorted sand filter pack was placed around the screen from the bottom of the boring to approximately three (3) feet above the screened interval. Above the sand pack, a ninety-two (92) foot thick bentonite seal was set to prevent the migration of contaminants to the sampling zone from the surface, and the remainder of the well annulus was filled with cement. A locking upright steel protective cover was concreted into place to protect the well from damage and surface percolation. Well development was conducted prior to setting the bentonite seal, in order to settle the sand filter pack and to maximize the flow of groundwater into the well.

Completion details for the monitor well are provided in Appendix D.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The following section presents a summary of the four groundwater monitoring events conducted at the 8" Moore to Jal #2 site in 2020 and provides recommendations for future corrective actions.

4.1 Summary of Findings

- The groundwater flow direction is to the south-southeast at an average gradient of 0.0035 feet per foot.
- In September 2020, 0.02 feet of PSH was observed in monitor well MW-7.
- During 2020, wells MW-6, MW-7, MW-9, MW-10, MW-12, MW-13, MW-22, and MW-23 exhibited benzene concentrations in excess of NMWQCC groundwater standards. The BTEX plume is well defined.
- 0.22 bbls of vapor PSH were extracted during the year 2020 via MDPE recovery.

4.2 Recommendations

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

- Continue operation and maintenance of the groundwater recovery system.
- Perform quarterly groundwater monitoring events in accordance with NMOCD directives.
- Discontinue PAH sampling in groundwater monitoring wells MW-3A, MW-4A, MW-7, MW-8, MW-9, MW-18, MW-22 and MW-23. These wells have exhibited PAH concentrations below NMWQCC standards and/or laboratory method detection limits for at least two consecutive years. MW-6 will be sampled for PAH again in 2021.
- Request NMOCD allow a modification (reduction) in the sampling frequency from monitoring wells that have exhibited no evidence of contamination above regulatory limits for eight (8) consecutive quarters. Specifically, we are requesting that wells MW-11, MW-17, MW-18, MW-19, and MW-20 be sampled on a semi-annual basis only.

APPENDIX A

Figures

Figure 1 - Site Plan

Figure 2a - Groundwater Gradient Map - 03/18-19/2020

Figure 2b - Groundwater Gradient Map - 06/16-18/2020

Figure 2c - Groundwater Gradient Map - 09/18, 21-21/2020

Figure 2d - Groundwater Gradient Map - 12/02/2020

Figure 3a - PSH Thickness & Groundwater Concentration Map - 03/19-21/2020

Figure 3b - PSH Thickness & Groundwater Concentration Map - 06/16-18/2020

Figure 3c - PSH Thickness & Groundwater Concentration Map - 09/18, 21-22/2020

Figure 3d - PSH Thickness & Groundwater Concentration Map - 12/02-05/2020



Drafted: 2/26/2018
1 in = 100 ft
Drafted By: IJM

8" Moore to Jal #2
SRS # 2002-10273, NMOCD REF. # AP-92
9.2 Miles SE of Lovington, NM, Lea Couty, New Mexico
Figure 1 - Site Plan



Date: 4/7/2021
1 in = 100 ft
Drafted By: NRC

8" Moore to Jal #2
SRS # 2002-10273, NMOCD REF. #nAPP2109527131
9.2 Miles SE of Lovington, NM, Lea County, New Mexico
32.832391, -103.252477
Figure 2a - Groundwater Gradient Map (03/18-19/2020)



Date: 4/7/2021
1 in = 100 ft
Drafted By: NRC

8" Moore to Jal #2
SRS # 2002-10273, NMOCD REF. #nAPP2109527131
9.2 Miles SE of Lovington, NM, Lea County, New Mexico
32.832391, -103.252477
Figure 2b - Groundwater Gradient Map (06/16 & 18/2020)



Date: 4/7/2021
1 in = 100 ft
Drafted By: NRC

8" Moore to Jal #2
SRS # 2002-10273, NMOCD REF. #nAPP2109527131
9.2 Miles SE of Lovington, NM, Lea County, New Mexico
32.832391, -103.252477
Figure 2c - Groundwater Gradient Map (09/18 & 21-22/2020)



Date: 4/7/2021
1 in = 100 ft
Drafted By: NRC

8" Moore to Jal #2
SRS # 2002-10273, NMOCD REF. #nAPP2109527131
9.2 Miles SE of Lovington, NM, Lea County, New Mexico
32.832391, -103.252477
Figure 2d - Groundwater Gradient Map (12/02/2020)



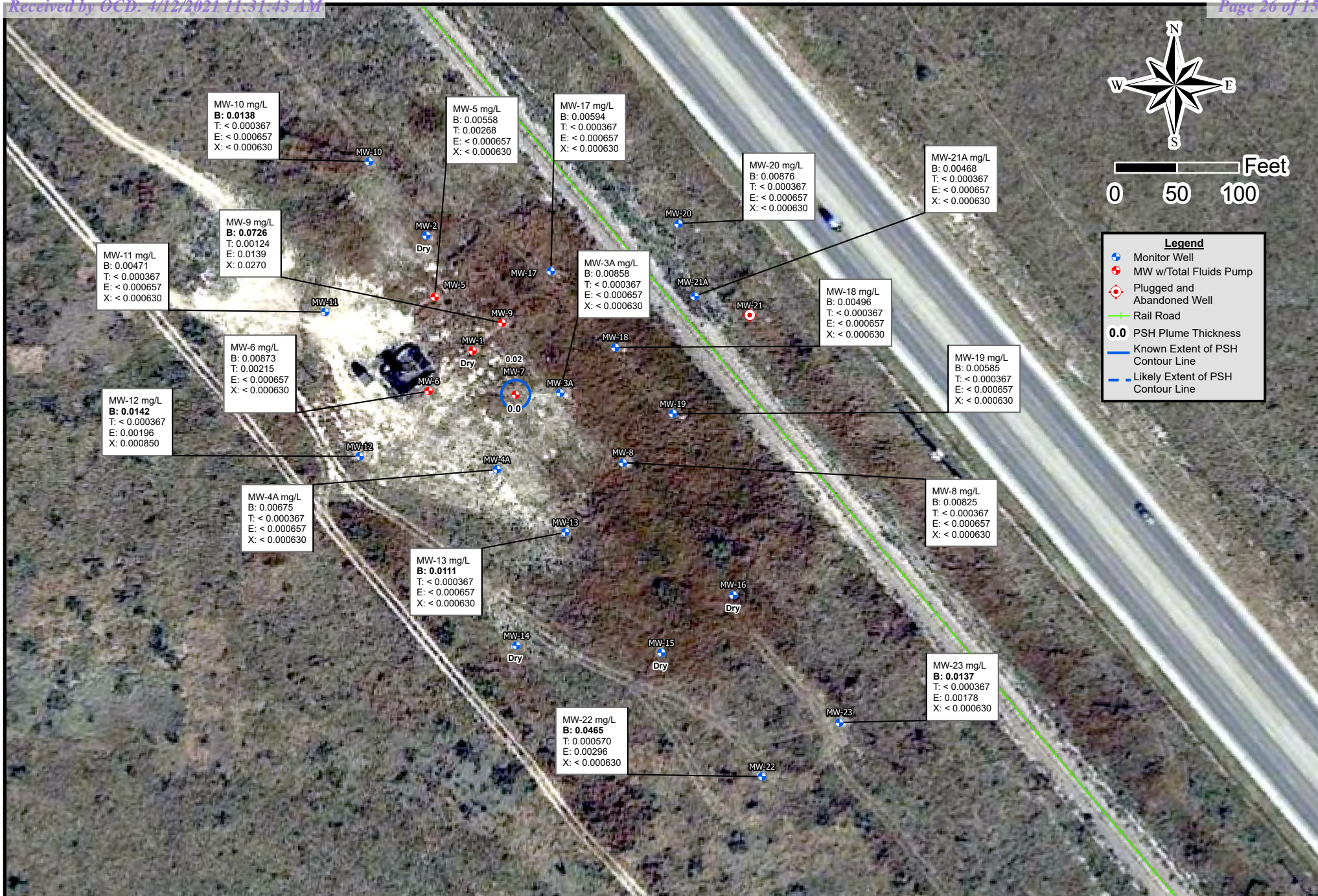
Date: 8/21/2020
1 in = 100 ft
Drafted By: NRC

8" Moore to Jal #2
SRS # 2002-10273, NMOCD REF. # AP-92
9.2 Miles SE of Lovington, NM, Lea Couty, New Mexico
Figure 3a - Groundwater Concentration Map - (03/19-21/2020)



Date: 8/21/2020
1 in = 100 ft
Drafted By: NRC

8" Moore to Jal #2
SRS # 2002-10273, NMOCD REF. # AP-92
9.2 Miles SE of Lovington, NM, Lea Couty, New Mexico
Figure 3b - Groundwater Concentration Map - (06/16-18/2020)



Date: 4/7/2021
1 in = 100 ft
Drafted By: NRC

8" Moore to Jal #2
SRS # 2002-10273, NMOCD REF. #nAPP2109527131
9.2 Miles SE of Lovington, NM, Lea County, New Mexico
32.832391, -103.252477
Figure 3c - Groundwater Concentration Map - (09/18 & 21-22/2020)



Date: 4/7/2021
1 in = 100 ft
Drafted By: NRC

8" Moore to Jal #2
SRS # 2002-10273, NMOCD REF. #nAPP2109527131
9.2 Miles SE of Lovington, NM, Lea County, New Mexico
32.832391, -103.252477
Figure 3d - Groundwater Concentration Map - (12/02-05/2020)

APPENDIX B

Tables

Table 1 - Summary of Historical Fluid Level Measurements

Table 2 - Summary of Historical Groundwater Analytical Results – BTEX

Table 3 - Summary of Groundwater Analytical Results – PAH Supplement

Table 1 - Groundwater and NAPL Thickness - Historical
 Moore to Jal #2
 Lovington/Hobbs, NM
 SRS#: 2002-10273

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-1 4"	3773.35	63	83	03/15/2016	94.40	93.75	0.65	3679.49
				06/13/2016	94.15	94.14	0.01	3679.21
				09/22/2016	94.82	94.42	0.4	3678.86
				12/01/2016	94.88	94.72	0.16	3678.60
				03/16/2017	DR	-	-	-
				06/01/2017	94.90	94.79	0.11	3678.54
				09/25/2017	DR	-	-	-
				12/13/2017	DR	-	-	-
				03/20/2018	DR	-	-	-
				06/18/2018	DR	-	-	-
				09/24/2018	DR	-	-	-
				12/18/2018	DR	-	-	-
				03/24/2019	DR	-	-	-
				06/19/2019	94.85			3678.50
				09/09/2019	94.85			3678.50
				12/16/2019	94.90	-	-	3678.45
				03/18/2020	94.90	-	-	3678.45
				06/16/2020	94.71	-	-	3678.64
				09/21/2020	DR	-	-	-
				12/02/2020	DR	-	-	-
MW-2 4"	3772.07	62.5	82.5	03/15/2016	DR	-	-	-
				06/13/2016	DR	-	-	-
				09/22/2016	DR	-	-	-
				11/30/2016	DR	-	-	-
				03/16/2017	DR	-	-	-
				06/01/2017	DR	-	-	-
				09/25/2017	DR	-	-	-
				12/13/2017	DR	-	-	-
				03/20/2018	DR	-	-	-
				06/18/2018	DR	-	-	-
				09/24/2018	DR	-	-	-
				12/18/2018	DR	-	-	-
				03/24/2019	DR	-	-	-
				06/19/2019	DR	-	-	-
				09/09/2019	DR	-	-	-
				12/16/2019	DR	-	-	-
				03/18/2020	DR	-	-	-
				06/16/2020	DR	-	-	-
				09/21/2020	DR	-	-	-
				12/02/2020	DR	-	-	-
MW-3A 4"	3773.59	82	112	03/15/2016	94.32	-	-	3679.27
				06/13/2016	94.70	-	-	3678.89
				09/23/2016	95.15	-	-	3678.44
				11/30/2016	95.64	-	-	3677.95
				03/16/2017	95.90	-	-	3677.69
				06/01/2017	96.25	-	-	3677.34
				09/25/2017	96.78	-	-	3676.81
				12/13/2017	97.26	-	-	3676.33
				03/20/2018	97.55	-	-	3676.04
				06/18/2018	98.00	-	-	3675.59
				09/24/2018	98.61	-	-	3674.98
				12/18/2018	99.09	-	-	3674.50
				03/24/2019	99.35	-	-	3674.24
				06/19/2019	99.55	-	-	3674.04
				09/09/2019	100.02	-	-	3673.57
				12/16/2019	100.65	-	-	3672.94
				03/19/2020	101.07	-	-	3672.52
				06/16/2020	101.25	-	-	3672.34
				09/21/2020	101.84	-	-	3671.75
				12/02/2020	102.26	-	-	3671.33

Table 1 - Groundwater and NAPL Thickness - Historical
 Moore to Jal #2
 Lovington/Hobbs, NM
 SRS#: 2002-10273

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-4A 4"	3774.27	84	114	03/15/2016	95.26	-	-	3679.01
				06/13/2016	95.60	-	-	3678.67
				09/23/2016	96.07	-	-	3678.20
				11/30/2016	96.57	-	-	3677.70
				03/16/2017	96.81	-	-	3677.46
				06/01/2017	97.17	-	-	3677.10
				09/25/2017	97.68	-	-	3676.59
				12/13/2017	98.18	-	-	3676.09
				03/20/2018	98.47	-	-	3675.80
				06/18/2018	98.94	-	-	3675.33
				09/24/2018	99.56	-	-	3674.71
				12/18/2018	100.05	-	-	3674.22
				03/24/2019	100.29	-	-	3673.98
				06/19/2019	100.56	-	-	3673.71
				09/09/2019	100.95	-	-	3673.32
				12/16/2019	101.59	-	-	3672.68
				03/19/2020	102.00	-	-	3672.27
				06/16/2020	102.17	-	-	3672.10
				09/18/2020	102.70	-	-	3671.57
				12/02/2020	103.19	-	-	3671.08
MW-5 4"	3772.08	60	100	03/15/2016	92.44	-	-	3679.64
				06/13/2016	NL	-	-	-
				09/22/2016	NL	-	-	-
				11/30/2016	NL	-	-	-
				03/16/2017	93.95	-	-	3678.13
				06/01/2017	94.31	-	-	3677.77
				09/25/2017	94.77	-	-	3677.31
				12/13/2017	95.36	-	-	3676.72
				03/20/2018	95.64	-	-	3676.44
				06/18/2018	95.09	-	-	3676.99
				09/24/2018	96.71	-	-	3675.37
				12/18/2018	97.20	-	-	3674.88
				03/24/2019	97.40	-	-	3674.68
				06/19/2019	97.70	-	-	3674.38
				09/09/2019	98.13	-	-	3673.95
				12/16/2019	98.77	-	-	3673.31
				03/18/2020	99.04	-	-	3673.04
				06/18/2020	99.35	-	-	3672.73
				09/21/2020	100.92	-	-	3671.16
				12/02/2020	100.36	-	-	3671.72
MW-6 4"	3772.99	60	100	03/15/2016	93.55	-	-	3679.44
				06/13/2016	93.90	-	-	3679.09
				09/23/2016	94.43	-	-	3678.56
				11/30/2016	94.84	-	-	3678.15
				03/16/2017	95.10	-	-	3677.89
				06/01/2017	95.50	-	-	3677.49
				09/25/2017	96.00	-	-	3676.99
				12/13/2017	96.49	-	-	3676.50
				03/20/2018	96.77	-	-	3676.22
				06/18/2018	97.20	-	-	3675.79
				09/24/2018	97.86	-	-	3675.13
				12/18/2018	98.25	-	-	3674.74
				03/24/2019	98.57	-	-	3674.42
				06/19/2019	98.87	-	-	3674.12
				09/09/2019	99.26	-	-	3673.73
				12/16/2019	99.89	-	-	3673.10
				03/19/2020	100.35	-	-	3672.64
				06/16/2020	100.47	-	-	3672.52
				09/18/2020	101.00	-	-	3671.99
				12/02/2020	101.50	-	-	3671.49

Table 1 - Groundwater and NAPL Thickness - Historical
 Moore to Jal #2
 Lovington/Hobbs, NM
 SRS#: 2002-10273

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-7 4"	3772.92	60	100	03/15/2016	93.61	93.60	0.01	3679.32
				06/13/2016	93.92	-	-	3679.00
				09/23/2016	94.45	-	-	3678.47
				11/30/2016	94.87	-	-	3678.05
				03/16/2017	95.15	-	-	3677.77
				06/01/2017	95.51	-	-	3677.41
				09/25/2017	96.00	-	-	3676.92
				12/13/2017	96.51	-	-	3676.41
				03/20/2018	96.81	-	-	3676.11
				06/18/2018	97.23	-	-	3675.69
				09/24/2018	97.88	-	-	3675.04
				12/18/2018	98.35	-	-	3674.57
				03/24/2019	98.55	-	-	3674.37
				06/19/2019	98.87	-	-	3674.05
				09/09/2019	99.30	-	-	3673.62
				12/16/2019	100.93	-	-	3671.99
				03/19/2020	100.32	-	-	3672.60
				06/18/2020	100.57	-	-	3672.35
				09/21/2020	101.09	101.07	0.02	3671.85
				12/02/2020	101.41	-	-	3671.51
MW-8 4"	3773.80	64	104	03/15/2016	94.78	-	-	3679.02
				06/13/2016	95.15	-	-	3678.65
				09/22/2016	95.60	-	-	3678.20
				11/30/2016	96.10	-	-	3677.70
				03/16/2017	96.36	-	-	3677.44
				06/01/2017	96.68	-	-	3677.12
				09/25/2017	97.22	-	-	3676.58
				12/13/2017	97.71	-	-	3676.09
				03/20/2018	97.99	-	-	3675.81
				06/18/2018	98.42	-	-	3675.38
				09/24/2018	99.06	-	-	3674.74
				12/18/2018	99.55	-	-	3674.25
				03/24/2019	99.80	-	-	3674.00
				06/19/2019	100.07	-	-	3673.73
				09/09/2019	100.48	-	-	3673.32
				12/16/2019	101.11	-	-	3672.69
				03/19/2020	101.50	-	-	3672.30
				06/16/2020	101.72	-	-	3672.08
				09/18/2020	102.20	-	-	3671.6
				12/02/2020	102.71	-	-	3671.09
MW-9 4"	3771.79	60	100	03/15/2016	92.22	-	-	3679.57
				06/13/2016	92.55	-	-	3679.24
				09/22/2016	93.08	-	-	3678.71
				11/30/2016	93.51	-	-	3678.28
				03/16/2017	93.80	-	-	3677.99
				06/01/2017	94.15	-	-	3677.64
				09/25/2017	94.66	-	-	3677.13
				12/13/2017	95.14	-	-	3676.65
				03/20/2018	95.44	-	-	3676.35
				06/18/2018	95.87	-	-	3675.92
				09/24/2018	96.51	-	-	3675.28
				12/18/2018	96.99	-	-	3674.80
				03/24/2019	97.20	-	-	3674.59
				06/19/2019	97.50	-	-	3674.29
				09/09/2019	97.92	-	-	3673.87
				12/16/2019	98.55	-	-	3673.24
				03/19/2020	98.94	-	-	3672.85
				06/18/2020	99.16	-	-	3672.63
				09/21/2020	100.73	-	-	3671.06
				12/02/2020	100.15	-	-	3671.64

Table 1 - Groundwater and NAPL Thickness - Historical
 Moore to Jal #2
 Lovington/Hobbs, NM
 SRS#: 2002-10273

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-10 4"	3771.90	61	101	03/15/2016	91.81	-	-	3680.09
				06/13/2016	92.15	-	-	3679.75
				09/22/2016	92.66	-	-	3679.24
				11/30/2016	93.12	-	-	3678.78
				03/16/2017	93.38	-	-	3678.52
				06/01/2017	93.76	-	-	3678.14
				09/25/2017	94.26	-	-	3677.64
				12/13/2017	94.75	-	-	3677.15
				03/20/2018	95.00	-	-	3676.90
				06/18/2018	95.49	-	-	3676.41
				09/24/2018	96.11	-	-	3675.79
				12/18/2018	96.58	-	-	3675.32
				03/24/2019	96.83	-	-	3675.07
				06/19/2019	97.09	-	-	3674.81
				09/09/2019	97.52	-	-	3674.38
				12/16/2019	98.16	-	-	3673.74
				03/18/2020	98.43	-	-	3673.47
				06/16/2020	98.70	-	-	3673.20
				09/21/2020	99.30	-	-	3672.60
				12/02/2020	99.74	-	-	3672.16
MW-11 4"	3772.97	65	105	03/15/2016	93.25	-	-	3679.72
				06/13/2016	93.61	-	-	3679.36
				09/23/2016	94.11	-	-	3678.86
				11/30/2016	94.55	-	-	3678.42
				03/16/2017	94.81	-	-	3678.16
				06/01/2017	95.18	-	-	3677.79
				09/25/2017	95.74	-	-	3677.23
				12/13/2017	96.19	-	-	3676.78
				03/20/2018	96.45	-	-	3676.52
				06/18/2018	96.90	-	-	3676.07
				09/24/2018	97.58	-	-	3675.39
				12/18/2018	98.02	-	-	3674.95
				03/24/2019	98.23	-	-	3674.74
				06/19/2019	98.58	-	-	3674.39
				09/09/2019	98.96	-	-	3674.01
				12/16/2019	99.60	-	-	3673.37
				03/19/2020	99.95	-	-	3673.02
				06/16/2020	100.13	-	-	3672.84
				09/21/2020	100.77	-	-	3672.20
				12/02/2020	101.20	-	-	3671.77
MW-12 4"	3773.80	65	105	03/15/2016	95.50	-	-	3678.30
				06/13/2016	94.83	-	-	3678.97
				09/22/2016	95.34	-	-	3678.46
				11/30/2016	95.79	-	-	3678.01
				03/16/2017	96.05	-	-	3677.75
				06/01/2017	96.40	-	-	3677.40
				09/25/2017	96.96	-	-	3676.84
				12/13/2017	97.44	-	-	3676.36
				03/20/2018	97.67	-	-	3676.13
				06/18/2018	98.14	-	-	3675.66
				09/24/2018	98.80	-	-	3675.00
				12/18/2018	99.31	-	-	3674.49
				03/24/2019	99.50	-	-	3674.30
				06/19/2019	99.77	-	-	3674.03
				09/09/2019	100.20	-	-	3673.60
				12/16/2019	100.85	-	-	3672.95
				03/19/2020	101.18	-	-	3672.62
				06/16/2020	101.37	-	-	3672.43
				09/18/2020	101.92	-	-	3671.88
				12/02/2020	102.45	-	-	3671.35

Table 1 - Groundwater and NAPL Thickness - Historical
 Moore to Jal #2
 Lovington/Hobbs, NM
 SRS#: 2002-10273

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-13 4"	3774.36	65	105	03/15/2016	95.48	-	-	3678.88
				06/13/2016	95.80	-	-	3678.56
				09/22/2016	96.30	-	-	3678.06
				11/30/2016	96.70	-	-	3677.66
				03/16/2017	97.05	-	-	3677.31
				06/01/2017	97.36	-	-	3677.00
				09/25/2017	97.88	-	-	3676.48
				12/13/2017	98.38	-	-	3675.98
				03/20/2018	98.68	-	-	3675.68
				06/18/2018	99.11	-	-	3675.25
				09/24/2018	99.71	-	-	3674.65
				12/18/2018	100.24	-	-	3674.12
				03/24/2019	100.45	-	-	3673.91
				06/19/2019	100.75	-	-	3673.61
				09/09/2019	101.16	-	-	3673.20
				12/16/2019	101.80	-	-	3672.56
				03/19/2020	102.20	-	-	3672.16
				06/16/2020	102.39	-	-	3671.97
				09/21/2020	102.60	-	-	3671.76
				12/02/2020	103.41	-	-	3670.95
MW-14 4"	3774.40	66	106	03/15/2016	95.85	-	-	3678.55
				06/13/2016	96.16	-	-	3678.24
				09/23/2016	96.61	-	-	3677.79
				11/30/2016	97.07	-	-	3677.33
				03/16/2017	93.75	-	-	3680.65
				06/01/2017	97.70	-	-	3676.70
				09/25/2017	NL	-	-	-
				12/13/2017	NL	-	-	-
				03/20/2018	NL	-	-	-
				06/18/2018	NL	-	-	-
				09/24/2018	DR	-	-	-
				12/18/2018	DR	-	-	-
				03/24/2019	DR	-	-	-
				06/19/2019	DR	-	-	-
				09/09/2019	DR	-	-	-
				12/16/2019	DR	-	-	-
				03/19/2020	DR	-	-	-
				06/16/2020	DR	-	-	-
				09/18/2020	DR	-	-	-
				12/02/2020	DR	-	-	-
MW-15 4"	3774.03	67	107	03/15/2016	95.62	-	-	3678.41
				06/13/2016	95.92	-	-	3678.11
				09/23/2016	96.38	-	-	3677.65
				11/30/2016	96.81	-	-	3677.22
				03/16/2017	97.17	-	-	3676.86
				06/01/2017	NL	-	-	-
				09/25/2017	NL	-	-	-
				12/13/2017	NL	-	-	-
				03/20/2018	NL	-	-	-
				06/18/2018	NL	-	-	-
				09/24/2018	DR	-	-	-
				12/18/2018	DR	-	-	-
				03/24/2019	DR	-	-	-
				06/19/2019	DR	-	-	-
				09/09/2019	DR	-	-	-
				12/16/2019	DR	-	-	-
				03/19/2020	DR	-	-	-
				06/16/2020	DR	-	-	-
				09/18/2020	DR	-	-	-
				12/02/2020	DR	-	-	-

Table 1 - Groundwater and NAPL Thickness - Historical
 Moore to Jal #2
 Lovington/Hobbs, NM
 SRS#: 2002-10273

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-16 4"	3773.95	67	107	03/15/2016	95.41	-	-	3678.54
				06/13/2016	95.74	-	-	3678.21
				09/22/2016	96.23	-	-	3677.72
				11/30/2016	96.63	-	-	3677.32
				03/16/2017	97.00	-	-	3676.95
				06/01/2017	NL	-	-	-
				09/25/2017	NL	-	-	-
				12/13/2017	NL	-	-	-
				03/20/2018	NL	-	-	-
				06/18/2018	NL	-	-	-
				09/24/2018	DR	-	-	-
				12/18/2018	DR	-	-	-
				03/24/2019	DR	-	-	-
				06/19/2019	DR	-	-	-
				09/09/2019	DR	-	-	-
				12/16/2019	DR	-	-	-
				03/19/2020	DR	-	-	-
				06/16/2020	DR	-	-	-
				09/18/2020	DR	-	-	-
				12/02/2020	DR	-	-	-
MW-17 4"	3771.26	64	104	03/15/2016	91.47	-	-	3679.79
				06/13/2016	92.08	-	-	3679.18
				09/22/2016	92.57	-	-	3678.69
				11/30/2016	92.97	-	-	3678.29
				03/16/2017	93.29	-	-	3677.97
				06/01/2017	93.63	-	-	3677.63
				09/25/2017	94.15	-	-	3677.11
				12/13/2017	94.64	-	-	3676.62
				03/20/2018	94.64	-	-	3676.62
				06/18/2018	95.39	-	-	3675.87
				09/24/2018	96.00	-	-	3675.26
				12/18/2018	96.50	-	-	3674.76
				03/24/2019	96.71	-	-	3674.55
				06/19/2019	97.00	-	-	3674.26
				09/09/2019	97.40	-	-	3673.86
				12/16/2019	98.04	-	-	3673.22
				03/18/2020	98.85	-	-	3672.41
				06/16/2020	98.67	-	-	3672.59
				09/21/2020	99.20	-	-	3672.06
				12/02/2020	99.61	-	-	3671.65
MW-18 4"	3772.41	64	104	03/15/2016	93.11	-	-	3679.30
				06/13/2016	93.45	-	-	3678.96
				09/22/2016	93.96	-	-	3678.45
				11/30/2016	94.35	-	-	3678.06
				03/16/2017	94.68	-	-	3677.73
				06/01/2017	95.01	-	-	3677.40
				09/25/2017	95.53	-	-	3676.88
				12/13/2017	96.02	-	-	3676.39
				03/20/2018	96.31	-	-	3676.10
				06/18/2018	96.74	-	-	3675.67
				09/24/2018	97.36	-	-	3675.05
				12/18/2018	97.78	-	-	3674.63
				03/24/2019	98.12	-	-	3674.29
				06/19/2019	98.39	-	-	3674.02
				09/09/2019	98.81	-	-	3673.60
				12/16/2019	99.43	-	-	3672.98
				03/18/2020	99.70	-	-	3672.71
				06/16/2020	100.07	-	-	3672.34
				09/21/2020	100.62	-	-	3671.79
				12/02/2020	100.99	-	-	3671.42

Table 1 - Groundwater and NAPL Thickness - Historical
 Moore to Jal #2
 Lovington/Hobbs, NM
 SRS#: 2002-10273

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-19 4"	3773.63	65	105	03/15/2016	94.57	-	-	3679.06
				06/13/2016	94.91	-	-	3678.72
				09/22/2016	95.42	-	-	3678.21
				11/30/2016	95.79	-	-	3677.84
				03/16/2017	96.14	-	-	3677.49
				06/01/2017	96.47	-	-	3677.16
				09/25/2017	96.98	-	-	3676.65
				12/13/2017	97.50	-	-	3676.13
				03/20/2018	97.77	-	-	3675.86
				06/18/2018	98.20	-	-	3675.43
				09/24/2018	98.82	-	-	3674.81
				12/18/2018	99.34	-	-	3674.29
				03/24/2019	99.61	-	-	3674.02
				06/19/2019	99.86	-	-	3673.77
				09/09/2019	100.27	-	-	3673.36
				12/16/2019	100.89	-	-	3672.74
				03/18/2020	101.22	-	-	3672.41
				06/16/2020	101.55	-	-	3672.08
				09/21/2020	102.10	-	-	3671.53
				12/02/2020	102.47	-	-	3671.16
MW-20 4"	3770.92	63	103	03/15/2016	91.42	-	-	3679.50
				06/13/2016	91.73	-	-	3679.19
				09/22/2016	92.25	-	-	3678.67
				11/30/2016	92.66	-	-	3678.26
				03/16/2017	93.00	-	-	3677.92
				06/01/2017	93.29	-	-	3677.63
				09/25/2017	93.82	-	-	3677.10
				12/13/2017	94.29	-	-	3676.63
				03/20/2018	94.60	-	-	3676.32
				06/18/2018	95.02	-	-	3675.90
				09/24/2018	95.63	-	-	3675.29
				12/18/2018	96.15	-	-	3674.77
				03/24/2019	96.41	-	-	3674.51
				06/19/2019	96.67	-	-	3674.25
				09/09/2019	97.09	-	-	3673.83
				12/16/2019	97.68	-	-	3673.24
				03/18/2020	98.00	-	-	3672.92
				06/16/2020	98.35	-	-	3672.57
				09/21/2020	98.90	-	-	3672.02
				12/02/2020	99.28	-	-	3671.64
MW-21 4"	3773.30	64	104	03/15/2016	91.06	-	-	3682.24
				06/13/2016	94.38	-	-	3678.92
				09/22/2016	94.90	-	-	3678.40
				11/30/2016	95.30	-	-	3678.00
				03/16/2017	95.60	-	-	3677.70
				06/01/2017	95.95	-	-	3677.35
				09/25/2017	96.45	-	-	3676.85
				12/13/2017	96.94	-	-	3676.36
				03/20/2018	97.25	-	-	3676.05
				06/18/2018	97.70	-	-	3675.60
				09/24/2018	98.30	-	-	3675.00
				12/18/2018	98.80	-	-	3674.50
				03/24/2019	99.07	-	-	3674.23
				06/19/2019	99.33	-	-	3673.97
				09/09/2019	99.73	-	-	3673.57
				12/16/2019	100.34	-	-	3672.96
				03/18/2020	100.69	-	-	3672.61
				06/16/2020	DS	-	-	-
MW-21A	3768.44	95	115	09/21/2020	101.70	-	-	3666.74
				12/02/2020	102.04	-	-	3666.40

Table 1 - Groundwater and NAPL Thickness - Historical
 Moore to Jal #2
 Lovington/Hobbs, NM
 SRS#: 2002-10273

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-22 2"	3772.92	80	110	03/15/2016	94.90	-	-	3678.02
				06/13/2016	95.19	-	-	3677.73
				09/22/2016	95.67	-	-	3677.25
				11/30/2016	96.06	-	-	3676.86
				03/16/2017	96.41	-	-	3676.51
				06/01/2017	96.73	-	-	3676.19
				09/25/2017	97.26	-	-	3675.66
				12/13/2017	97.46	-	-	3675.46
				03/20/2018	98.02	-	-	3674.90
				06/18/2018	98.51	-	-	3674.41
				09/24/2018	98.91	-	-	3674.01
				12/18/2018	99.66	-	-	3673.26
				03/24/2019	99.91	-	-	3673.01
				06/19/2019	102.10	-	-	3670.82
				09/09/2019	100.57	-	-	3672.35
				12/16/2019	101.18	-	-	3671.74
				03/19/2020	101.61	-	-	3671.31
				06/16/2020	101.81	-	-	3671.11
				09/18/2020	102.35	-	-	3670.57
				12/02/2020	102.79	-	-	3670.13
MW-23 2"	3773.87	84	114	03/15/2016	95.75	-	-	3678.12
				06/13/2016	96.03	-	-	3677.84
				09/22/2016	96.50	-	-	3677.37
				11/30/2016	96.94	-	-	3676.93
				03/16/2017	97.29	-	-	3676.58
				06/01/2017	97.60	-	-	3676.27
				09/25/2017	98.11	-	-	3675.76
				12/13/2017	98.61	-	-	3675.26
				03/20/2018	98.93	-	-	3674.94
				06/18/2018	99.35	-	-	3674.52
				09/24/2018	99.95	-	-	3673.92
				12/18/2018	100.51	-	-	3673.36
				03/24/2019	109.77	-	-	3664.10
				06/19/2019	101.05	-	-	3672.82
				09/09/2019	101.46	-	-	3672.41
				12/16/2019	102.01	-	-	3671.86
				03/19/2020	102.43	-	-	3671.44
				06/16/2020	102.68	-	-	3671.19
				09/18/2020	103.22	-	-	3670.65
				12/02/2020	103.65	-	-	3670.22

Specific Gravity: 0.75

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

Moore to Jal #2
 Lovington/Hobbs, NM
 SRS#: 2002-10273

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Notes
NMOCD - Groundwater		0.01	0.75	0.75	0.62	-	-	-
MW-1	09/24/2018	-	-	-	-	-	-	DR
	12/20/2018	-	-	-	-	-	-	DR
	06/19/2019	-	-	-	-	-	-	DR
	09/09/2019	-	-	-	-	-	-	DR
MW-2	09/24/2018	-	-	-	-	-	-	DR
	12/20/2018	-	-	-	-	-	-	DR
MW-3A	03/15/2016	<0.00022	0.00110	<0.00024	<0.00024	-	-	-
	06/15/2016	0.00100	0.00130	<0.000763	0.00110	-	-	-
	09/23/2016	0.00510	0.00810	<0.000238	0.00380	-	-	-
	12/02/2016	<0.000408	<0.00100	<0.000657	<0.000642	-	-	-
	03/23/2017	0.0145	0.0218	<0.000657	0.0124	-	-	-
	06/01/2017	<0.000408	0.00297	0.00134 J	0.00293	0.00724	-	-
	09/26/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408	-	-
	12/21/2017	0.00924	0.00973	<0.000657	0.00838	0.0274	-	-
	03/21/2018	<0.000408	0.000670 J	<0.000657	<0.000630	0.000670 J	-	-
	06/18/2018	0.000900 J	<0.000512	<0.000616	<0.000270	0.000900 J	-	-
	09/26/2018	<0.000408	0.0210	<0.000657	<0.000630	0.0210	-	-
	12/20/2018	0.000900 J	<0.000512	<0.000616	<0.000270	0.000900 J	-	-
	03/25/2019	0.000790	<0.0005	<0.0005	<0.000500	0.000790	-	-
	06/19/2019	0.0224	0.0428	0.0235	0.0208	0.110	-	-
	09/15/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367	-	-
	12/17/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/20/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	06/17/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	09/21/2020	0.00858	<0.000367	<0.000657	<0.000630	0.00858	-	-
	12/04/2020	0.00110 J	0.00102 J	<0.002000	0.001040 J	0.003160	-	-
MW-4A	03/15/2016	0.206	0.00150	0.0124	0.00120	-	-	-
	06/15/2016	0.0740	0.0265	0.00280	0.00680	-	-	-
	09/23/2016	0.0302	0.0118	0.00250	0.00430	-	-	-
	12/02/2016	0.00255	<0.00100	<0.000657	<0.000642	-	-	-
	03/23/2017	<0.000408	<0.000367	<0.000657	<0.000630	-	-	-
	06/02/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408	-	-
	09/26/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408	-	-
	12/21/2017	0.00273	0.00201	<0.000657	0.000970 J	0.00571	-	-
	03/21/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	06/18/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	09/27/2018	<0.000408	0.00715	<0.000657	<0.000630	0.00715	-	-
	12/20/2018	0.00100 J	<0.000512	<0.000616	<0.000270	0.00100 J	-	-
	03/25/2019	0.00704	<0.0005	0.00123	<0.000500	0.00827	-	-
	06/19/2019	0.00600	0.00400	<0.00308	<0.00135	0.0100	-	-
	09/15/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367	-	-
	12/17/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/20/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	06/17/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	09/18/2020	0.00675	<0.000367	<0.000657	<0.000630	0.00675	-	-
	12/04/2020	0.00102 J	0.000660 J	<0.002000	0.0009600 J	0.002640	-	-
MW-5	03/17/2016	0.0362	0.0315	0.00430	0.0222	-	-	-
	03/23/2017	0.0525	0.0315	0.0217	0.0510	-	-	-
	06/02/2017	0.282	0.123	0.0567	0.210	0.672	-	-
	09/26/2017	0.284	0.0656	0.0195	0.0676	0.437	-	-
	12/21/2017	0.0396	0.0154	0.00589	0.0114	0.0723	-	-
	03/21/2018	0.00312	0.00214	<0.000657	0.00308	0.00834	-	-
	06/18/2018	0.00880	0.00830	0.000700 J	0.00470	0.0225	-	-
	09/27/2018	0.0334	0.0200	0.00141 J	0.00914	0.0640	-	-
	12/20/2018	<0.000480	<0.000512	<0.000616	0.000900 J	0.000900 J	-	-
	03/26/2019	0.0183	0.00408	0.00182	0.00681	0.0310	-	-
	06/20/2019	0.0440	0.0414	0.00270	0.0168	0.105	-	-
	09/14/2019	0.00259	0.00384	<0.000657	<0.00063	0.00643	-	-
	12/19/2019	0.00391	0.00110	<0.000657	0.000690	0.00570	-	-
	03/21/2020	0.00450	0.00140	0.00140	0.00420	0.0115	-	-
	06/18/2020	0.00315	0.00206	<0.000657	<0.000630	0.00521	-	-
	09/22/2020	0.00558	0.00268	<0.000657	<0.000630	0.00826	-	-
	12/05/2020	0.00589	0.00904	0.00160 J	0.005810	0.02234	-	-

Table 2 - Groundwater Analytical Data - Historical

Moore to Jal #2
 Lovington/Hobbs, NM
 SRS#: 2002-10273

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Notes
MW-6	03/17/2016	0.453	0.118	0.0703	0.182	-	-	-
	06/15/2016	0.574	0.418	0.0912	0.358	-	-	-
	09/23/2016	0.424	0.240	0.200	0.384	-	-	-
	12/02/2016	1.66	0.141	0.0412	0.139	-	-	-
	03/23/2017	1.50	0.228	0.0532	0.235	-	-	-
	06/02/2017	0.0507	0.00523	0.00116 J	0.00699	0.0641	-	-
	09/26/2017	0.0531	0.0189	0.0235	0.0563	0.152	-	-
	12/21/2017	1.02	0.467	0.179	0.494	2.16	-	-
	03/21/2018	0.836	0.0318	0.0141 J	0.0967	0.979	-	-
	06/18/2018	1.82	0.322	0.0570	0.158	2.36	-	-
	09/27/2018	0.619 D	0.0592	0.0104	0.0415	0.730	-	-
	12/27/2018	0.185	0.00598	0.00131 J	0.0257	0.218	-	-
	03/24/2019	0.645	0.106	0.0194	0.0926	0.863	-	-
	06/20/2019	0.170	0.00290	0.00330	0.0115	0.188	-	-
	09/15/2019	0.173	0.0116	0.00404	0.0374	0.226	-	-
	12/19/2019	0.119	0.000670	0.00226	0.00546	0.127	-	-
	03/19/2020	0.0130	0.00230	<0.000616	0.00320	0.0185	-	-
	06/18/2020	0.00781	0.00376	<0.000657	<0.000630	0.0116	-	-
	09/18/2020	0.00873	0.00215	<0.000657	<0.000630	0.0109	-	-
	12/05/2020	0.0656	0.0217	0.00288	0.02890	0.1191	-	-
MW-7	06/15/2016	0.278	0.203	0.0100	0.0598	-	-	-
	09/23/2016	0.0760	0.0652	0.00610	0.0227	-	-	-
	12/02/2016	1.86	0.0540	0.390	0.588	-	-	-
	03/23/2017	2.27	0.391	0.223	0.402	-	-	-
	06/02/2017	0.115	0.00556	0.0110	0.0132	0.145	-	-
	09/26/2017	3.59 D	0.141	0.200	0.224	4.15	-	-
	12/21/2017	0.169	0.0167	0.00907	0.0120	0.207	-	-
	03/21/2018	0.354	0.00755	0.0177	0.0137	0.393	-	-
	06/18/2018	0.254	0.00740	0.00940	0.00630	0.277	-	-
	09/27/2018	0.315	0.0161	0.00551	0.00827	0.345	-	-
	12/20/2018	0.108	0.00380	0.00100 J	0.00290	0.116	-	-
	03/25/2019	0.0513	0.00539	0.00148	0.00450	0.0627	-	-
	06/21/2019	0.323	<0.00256	<0.00308	0.0150	0.338	-	-
	09/14/2019	0.335	0.0154	0.00755	0.0102	0.368	-	-
	12/17/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/20/2020	0.0557	0.00730	0.00170	0.00700	0.0717	-	-
	06/18/2020	0.0973	0.00183 J	0.0288	0.0496	0.178	-	-
	12/04/2020	0.00675	0.00382	0.000810 J	0.003320	0.01470	-	-
MW-8	03/15/2016	<0.00022	<0.00024	<0.00024	<0.00024	-	-	-
	06/15/2016	0.000700 J	<0.000621	<0.000763	<0.000256	-	-	-
	09/22/2016	<0.000223	<0.000238	<0.000238	<0.000243	-	-	-
	11/30/2016	<0.000408	<0.00100	<0.000657	<0.000642	-	-	-
	03/23/2017	<0.000408	<0.000367	<0.000657	<0.000630	-	-	-
	06/01/2017	0.00159 J	<0.00100	<0.000657	<0.000642	0.00159 J	-	-
	09/26/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408	-	-
	12/21/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/21/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	06/18/2018	0.00110	<0.000512	<0.000616	<0.000270	0.00110	-	-
	09/26/2018	<0.000408	0.339	<0.000657	<0.000630	0.339	-	-
	12/20/2018	0.000900 J	<0.000512	<0.000616	<0.000270	0.000900 J	-	-
	03/25/2019	0.00342	<0.0005	0.000890	<0.000500	0.00431	-	-
	06/19/2019	0.00600	<0.000512	<0.000616	<0.000270	0.00600	-	-
	09/14/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367	-	-
	12/17/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/20/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	06/17/2020	0.000660 J	<0.000367	<0.000657	<0.000630	0.000660 J	-	-
	09/18/2020	0.00825	<0.000367	<0.000657	<0.000630	0.00825	-	-
	12/02/2020	0.00121 J	0.00125 J	0.000890 J	0.002820	0.006170	-	-

Table 2 - Groundwater Analytical Data - Historical
 Moore to Jal #2
 Lovington/Hobbs, NM
 SRS#: 2002-10273

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Notes
MW-9	03/17/2016	0.259	0.269	0.0770	0.139	-	-	-
	06/15/2016	0.220	0.247	0.0176	0.0882	-	-	-
	09/22/2016	0.253	0.283	0.0830	0.186	-	-	-
	12/02/2016	0.171	0.116	0.0476	0.124	-	-	-
	03/23/2017	0.370	0.111	0.0819	0.201	-	-	-
	06/02/2017	0.0359	0.0214	0.00718	0.0192	0.0836	-	-
	09/26/2017	4.95	2.31	0.902	2.32	10.5	-	-
	12/21/2017	1.29	0.0543	0.0157	0.0958	1.46	-	-
	03/21/2018	0.386	0.0102	0.219	0.359	0.974	-	-
	06/18/2018	0.136	0.0100	0.0290	0.0700	0.245	-	-
	09/27/2018	0.110	0.0163	0.0204	0.0345	0.181	-	-
	12/20/2018	0.00610	<0.000512	0.000700 J	0.00310	0.00990	-	-
	03/25/2019	0.0788	0.00283	0.0378	0.0103	0.130	-	-
	06/20/2019	0.384	0.0153	0.0654	0.109	0.573	-	-
	09/15/2019	0.478	0.0406	0.0513	0.221	0.791	-	-
	12/19/2019	0.224	0.00580	0.0616	0.138	0.430	-	-
	03/20/2020	0.246	0.00110	0.0718	0.137	0.456	-	-
	06/18/2020	0.158	<0.000367	0.0493	0.0856	0.293	-	-
	09/21/2020	0.0726	0.00124 J	0.0139	0.0270	0.115	-	-
	12/04/2020	0.154	0.00175 J	0.0359	0.04010	0.2318	-	-
MW-10	03/15/2016	<0.00022	<0.00024	<0.00024	<0.00024	-	-	-
	06/13/2016	<0.000504	<0.000621	<0.000763	<0.000256	-	-	-
	09/22/2016	<0.000223	0.000400 J	<0.000238	<0.000243	-	-	-
	11/30/2016	<0.000408	<0.00100	<0.000657	<0.000642	-	-	-
	03/23/2017	<0.000408	<0.000367	<0.000657	<0.000630	-	-	-
	06/01/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408	-	-
	09/26/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408	-	-
	12/21/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/21/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	06/18/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	09/26/2018	<0.000408	0.00204	<0.000657	<0.000630	0.00204	-	-
	12/20/2018	0.00130	<0.000512	<0.000616	<0.000270	0.00130	-	-
	03/26/2019	0.00203	<0.0005	<0.0005	<0.000500	0.00203	-	-
	06/20/2019	<0.000480	0.00130	<0.000616	<0.000270	0.00130	-	-
	09/14/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367	-	-
	12/18/2019	0.000780	<0.000367	<0.000657	<0.000630	0.000780	-	-
	03/20/2020	0.00430	<0.000512	0.00390	0.00700	0.0152	-	-
	06/18/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	09/21/2020	0.0138	<0.000367	<0.000657	<0.000630	0.0138	-	-
	12/04/2020	0.000590 J	0.000720 JF	<0.002000	0.0008700 J	0.002180	-	-
MW-11	03/15/2016	0.722	<0.0119	<0.0119	<0.0122	-	-	-
	06/15/2016	0.371	<0.0310	<0.0382	<0.0128	-	-	-
	09/23/2016	0.0200	0.00160	<0.000238	0.000900 J	-	-	-
	12/02/2016	<0.000408	<0.00100	<0.000657	<0.000642	-	-	-
	03/23/2017	<0.000408	<0.000367	<0.000657	<0.000630	-	-	-
	06/01/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408	-	-
	09/26/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408	-	-
	12/21/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/21/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	06/18/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	09/26/2018	0.00123 J	0.00808	<0.000657	<0.000630	0.00931	-	-
	12/20/2018	0.000700 J	<0.000512	<0.000616	<0.000270	0.000700 J	-	-
	03/26/2019	0.000560	<0.0005	<0.0005	<0.000500	0.000560	-	-
	06/21/2019	0.00300	<0.000512	<0.000616	<0.000270	0.00300	-	-
	09/15/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367	-	-
	12/18/2019	0.00105	<0.000367	<0.000657	<0.000630	0.00105	-	-
	03/19/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	06/18/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	09/21/2020	0.00471	<0.000367	<0.000657	<0.000630	0.00471	-	-
	12/02/2020	0.00133 J	0.00101 J	<0.002000	0.0007400 J	0.003080	-	-

Table 2 - Groundwater Analytical Data - Historical
 Moore to Jal #2
 Lovington/Hobbs, NM
 SRS#: 2002-10273

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Notes
MW-12	03/15/2016	<0.00022	<0.00024	<0.00024	<0.00024	-	-	-
	06/15/2016	<0.000504	<0.000621	<0.000763	<0.000256	-	-	-
	09/22/2016	<0.000223	<0.000238	<0.000238	<0.000243	-	-	-
	11/30/2016	<0.000408	<0.00100	<0.000657	<0.000642	-	-	-
	03/23/2017	<0.000408	<0.000367	<0.000657	<0.000630	-	-	-
	06/01/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408	-	-
	09/26/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408	-	-
	12/21/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/21/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	06/18/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	09/27/2018	<0.000408	0.0365	<0.000657	<0.000630	0.0365	-	-
	12/20/2018	0.00110	<0.000512	<0.000616	<0.000270	0.00110	-	-
	03/24/2019	0.00602	<0.0005	0.000990	<0.000500	0.00701	-	-
	06/20/2019	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	09/15/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367	-	-
	12/17/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/19/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	06/18/2020	0.00130 J	<0.000367	<0.000657	<0.000630	0.00130 J	-	-
	09/18/2020	0.0142	<0.000367	0.00196 J	0.000850 J	0.0170	-	-
	12/02/2020	0.000910 J	0.00158 J	<0.002000	0.0008400 J	0.003330	-	-
MW-13	03/15/2016	0.00120	<0.00024	<0.00024	<0.00024	-	-	-
	06/15/2016	<0.000504	<0.000621	0.00580	<0.000256	-	-	-
	09/22/2016	<0.000223	<0.000238	0.000900 J	<0.000243	-	-	-
	11/30/2016	0.00230	<0.00100	<0.000657	<0.000642	-	-	-
	03/23/2017	<0.000408	<0.000367	<0.000657	<0.000630	-	-	-
	06/02/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408	-	-
	09/26/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408	-	-
	12/21/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/21/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	06/18/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	09/26/2018	<0.000408	0.00530	<0.000657	<0.000630	0.00530	-	-
	12/20/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	03/25/2019	0.00583	<0.0005	0.00136	<0.000500	0.00719	-	-
	06/19/2019	0.00380	<0.000512	<0.000616	<0.000270	0.00380	-	-
	09/14/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367	-	-
	12/17/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/20/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	06/17/2020	0.00119 J	<0.000367	<0.000657	<0.000630	0.00119 J	-	-
	09/21/2020	0.0111	<0.000367	<0.000657	<0.000630	0.0111	-	-
	12/02/2020	0.00119 J	0.00103 J	0.00109 J	<0.0020000	0.003310	-	-
MW-14	03/15/2016	0.0410	<0.00024	<0.00024	0.00280	-	-	-
	06/15/2016	0.253	<0.000621	<0.000763	0.00540	-	-	-
	09/23/2016	0.462	<0.00119	<0.00119	0.00580	-	-	-
	12/02/2016	0.195	<0.00100	<0.000657	<0.000642	-	-	-
	03/23/2017	0.0238	<0.000367	<0.000657	<0.000630	-	-	-
	06/02/2017	0.00247	<0.00100	<0.000657	<0.000642	0.00247	-	-
	09/24/2018	-	-	-	-	-	-	DR
	12/20/2018	-	-	-	-	-	-	DR
MW-15	03/15/2016	0.983	<0.0024	<0.0024	<0.0024	-	-	-
	06/15/2016	1.64	<0.0310	<0.0382	<0.0128	-	-	-
	09/23/2016	3.47	<0.0119	<0.0119	<0.0122	-	-	-
	12/02/2016	0.00464	<0.00100	<0.000657	<0.000642	-	-	-
	03/23/2017	1.11	<0.00918	<0.0164	<0.0157	-	-	-
	09/24/2018	-	-	-	-	-	-	DR
	12/20/2018	-	-	-	-	-	-	DR
MW-16	03/15/2016	<0.00022	<0.00024	<0.00024	<0.00024	-	-	-
	06/13/2016	0.000700 J	<0.000621	<0.000763	<0.000256	-	-	-
	09/22/2016	<0.000223	<0.000238	<0.000238	<0.000243	-	-	-
	11/30/2016	<0.000408	<0.00100	<0.000657	<0.000642	-	-	-
	03/23/2017	<0.000408	<0.000367	<0.000657	<0.000630	-	-	-
	09/24/2018	-	-	-	-	-	-	DR
	12/20/2018	-	-	-	-	-	-	DR

Table 2 - Groundwater Analytical Data - Historical

Moore to Jal #2
 Lovington/Hobbs, NM
 SRS#: 2002-10273

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Notes
MW-17	03/15/2016	<0.00022	<0.00024	<0.00024	<0.00024	-	-	-
	06/15/2016	<0.000504	<0.000621	<0.000763	<0.000256	-	-	-
	09/22/2016	<0.000223	<0.000238	<0.000238	<0.000243	-	-	-
	11/30/2016	<0.000408	<0.00100	<0.000657	<0.000642	-	-	-
	03/23/2017	<0.000408	<0.000367	<0.000657	<0.000630	-	-	-
	06/02/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408	-	-
	09/26/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408	-	-
	12/21/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/21/2018	<0.000408	0.000620 J	<0.000657	<0.000630	0.000620 J	-	-
	06/18/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	09/26/2018	<0.000408	0.00234	<0.000657	<0.000630	0.00234	-	-
	12/20/2018	0.00240	<0.000512	<0.000616	<0.000270	0.00240	-	-
	03/26/2019	0.000740	<0.0005	<0.0005	<0.000500	0.000740	-	-
	06/20/2019	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	09/14/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367	-	-
	12/19/2019	0.000740	<0.000367	<0.000657	<0.000630	0.000740	-	-
	03/21/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	06/19/2020	0.00284	0.000500 J	<0.000657	<0.000630	0.00334	-	-
	09/22/2020	0.00594	<0.000367	<0.000657	<0.000630	0.00594	-	-
	12/02/2020	0.00123 J	0.00123 J	0.000670 J	0.000900 J	0.004030	-	-
MW-18	03/15/2016	<0.00022	<0.00024	<0.00024	<0.00024	-	-	-
	06/15/2016	<0.000504	<0.000621	<0.000763	<0.000256	-	-	-
	09/22/2016	<0.000223	<0.000238	<0.000238	<0.000243	-	-	-
	11/30/2016	<0.000408	<0.00100	<0.000657	<0.000642	-	-	-
	03/23/2017	<0.000408	<0.000367	<0.000657	<0.000630	-	-	-
	06/02/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408	-	-
	09/26/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408	-	-
	12/21/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/21/2018	<0.000408	0.000640 J	<0.000657	<0.000630	0.000640 J	-	-
	06/18/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	09/26/2018	0.000660 J	0.00564	<0.000657	<0.000630	0.00630	-	-
	12/20/2018	0.00100 J	<0.000512	<0.000616	<0.000270	0.00100 J	-	-
	03/26/2019	0.000800	<0.0005	<0.0005	<0.000500	0.000800	-	-
	06/20/2019	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	09/14/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367	-	-
	12/19/2019	0.000880	<0.000367	<0.000657	<0.000630	0.000880	-	-
	03/21/2020	<0.000480	<0.000512	0.000900 J	0.000800 J	0.00170	-	-
	06/19/2020	0.00136 J	<0.000367	<0.000657	<0.000630	0.00136 J	-	-
	09/22/2020	0.00496	<0.000367	<0.000657	<0.000630	0.00496	-	-
	12/02/2020	0.000630 J	0.00138 J	0.000810 J	0.002060	0.004880	-	-
MW-19	03/15/2016	<0.00022	<0.00024	<0.00024	<0.00024	-	-	-
	06/15/2016	0.000600 J	<0.000621	<0.000763	<0.000256	-	-	-
	09/22/2016	<0.000223	<0.000238	<0.000238	<0.000243	-	-	-
	11/30/2016	<0.000408	<0.00100	<0.000657	<0.000642	-	-	-
	03/23/2017	<0.000408	<0.000367	<0.000657	<0.000630	-	-	-
	06/02/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408	-	-
	09/26/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408	-	-
	12/21/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/21/2018	<0.000408	0.000730 J	<0.000657	<0.000630	0.000730 J	-	-
	06/18/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	09/26/2018	<0.000408	0.00208	<0.000657	<0.000630	0.00208	-	-
	12/20/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	03/26/2019	0.00466	0.000730	0.00122	<0.000500	0.00661	-	-
	06/20/2019	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	09/14/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367	-	-
	12/19/2019	0.000990	<0.000367	<0.000657	<0.000630	0.000990	-	-
	03/21/2020	0.00110	<0.000512	0.000700 J	<0.000270	0.00180	-	-
	06/16/2020	0.00127 J	<0.000367	<0.000657	<0.000630	0.00127 J	-	-
	09/22/2020	0.00585	<0.000367	<0.000657	<0.000630	0.00585	-	-
	12/02/2020	0.00143 J	<0.002000	<0.002000	0.0008600 J	0.002290	-	-

Table 2 - Groundwater Analytical Data - Historical
 Moore to Jal #2
 Lovington/Hobbs, NM
 SRS#: 2002-10273

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Notes
MW-20	03/15/2016	<0.00022	<0.00024	<0.00024	<0.00024	-	-	-
	06/13/2016	<0.000504	<0.000621	<0.000763	<0.000256	-	-	-
	09/22/2016	<0.000223	<0.000238	<0.000238	<0.000243	-	-	-
	11/30/2016	0.00268	<0.00100	<0.000657	<0.000642	-	-	-
	03/23/2017	<0.000408	<0.000367	<0.000657	<0.000630	-	-	-
	06/02/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408	-	-
	09/26/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408	-	-
	12/21/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/21/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	06/18/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	09/27/2018	<0.000408	0.0197	<0.000657	<0.000630	0.0197	-	-
	12/20/2018	0.00100 J	<0.000512	<0.000616	<0.000270	0.00100 J	-	-
	03/26/2019	<0.0005	<0.0005	<0.0005	<0.000500	<0.000500	-	-
	06/21/2019	0.00680	<0.000512	<0.000616	<0.000270	0.00680	-	-
	09/15/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367	-	-
	12/18/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/21/2020	0.00490	0.00160	0.00120	0.00360	0.0113	-	-
	06/16/2020	0.00153 J	<0.000367	<0.000657	<0.000630	0.00153 J	-	-
	09/22/2020	0.00876	<0.000367	<0.000657	<0.000630	0.00876	-	-
	12/02/2020	0.00105 J	0.00131 J	<0.002000	0.001090 J	0.003450	-	-
MW-21	03/15/2016	<0.00022	<0.00024	<0.00024	<0.00024	-	-	-
	06/13/2016	<0.000504	<0.000621	<0.000763	<0.000256	-	-	-
	09/22/2016	<0.000223	<0.000238	<0.000238	<0.000243	-	-	-
	11/30/2016	<0.000408	<0.00100	<0.000657	<0.000642	-	-	-
	03/23/2017	<0.000408	<0.000367	<0.000657	<0.000630	-	-	-
	06/02/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408	-	-
	09/26/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408	-	-
	12/21/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/21/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	06/18/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	09/27/2018	<0.000408	0.0260	<0.000657	<0.000630	0.0260	-	-
	12/20/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	03/26/2019	0.00360	<0.0005	0.00115	<0.000500	0.00475	-	-
	06/21/2019	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	09/15/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367	-	-
	12/18/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/21/2020	0.00140	0.000900 J	0.000800 J	0.00110	0.00420	-	-
MW-21A	09/22/2020	0.00468	<0.000367	<0.000657	<0.000630	0.00468	-	-
	12/02/2020	0.00137 J	0.000920 J	0.000730 J	0.001480 J	0.004500	-	-
MW-22	03/15/2016	0.00340	<0.00024	<0.00024	<0.00024	-	-	-
	06/15/2016	0.000600 J	<0.000621	<0.000763	<0.000256	-	-	-
	09/22/2016	<0.000223	<0.000238	<0.000238	<0.000243	-	-	-
	11/30/2016	<0.000408	<0.00100	<0.000657	<0.000642	-	-	-
	03/24/2017	<0.000408	<0.000367	<0.000657	<0.000630	-	-	-
	06/01/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408	-	-
	09/26/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408	-	-
	12/21/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/21/2018	<0.000408	<0.000367	<0.000657	0.00281	0.00281	-	-
	06/18/2018	0.00370	<0.000512	<0.000616	<0.000270	0.00370	-	-
	09/26/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	12/20/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	03/24/2019	<0.0005	<0.0005	<0.0005	<0.000500	<0.000500	-	-
	06/21/2019	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	09/14/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367	-	-
	12/18/2019	0.00155	<0.000367	<0.000657	<0.000630	0.00155	-	-
	03/19/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	06/17/2020	0.00187 J	<0.000367	<0.000657	<0.000630	0.00187 J	-	-
	09/18/2020	0.0465	0.000570 JX	0.00296	<0.000630	0.0500	-	-
	12/04/2020	0.00149 J	0.00128 J	<0.002000	0.0006800 J	0.003450	-	-

Table 2 - Groundwater Analytical Data - Historical
 Moore to Jal #2
 Lovington/Hobbs, NM
 SRS#: 2002-10273

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Notes
MW-23	03/15/2016	<0.00022	<0.00024	<0.00024	<0.00024	-	-	-
	06/13/2016	0.00400	<0.000621	<0.000763	0.00070 J	-	-	-
	09/22/2016	0.0134	<0.000238	<0.000238	<0.000243	-	-	-
	11/30/2016	0.0694	<0.0200	<0.0131	<0.0128	-	-	-
	03/23/2017	0.209	0.00223	<0.000657	0.0124	-	-	-
	06/02/2017	0.0538	<0.00100	<0.000657	0.0109	0.0647	-	-
	09/26/2017	0.00199 J	0.00127 J	0.00255	0.0238	0.0296	-	-
	12/21/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/21/2018	<0.000408	<0.000367	<0.000657	0.00628	0.00628	-	-
	06/18/2018	<0.000480	<0.000512	<0.000616	0.00420	0.00420	-	-
	09/26/2018	0.00279	<0.000367	<0.000657	0.00652	0.00931	-	-
	12/20/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	03/24/2019	<0.0005	<0.0005	<0.0005	<0.000500	<0.000500	-	-
	06/21/2019	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	09/10/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367	<0.00258	-
	12/18/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367	-	-
	03/19/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270	-	-
	06/17/2020	0.00138 J	<0.000367	<0.000657	<0.000630	0.00138 J	-	-
	09/18/2020	0.0137	<0.000367	0.00178 J	<0.000630	0.0155	-	-
	12/04/2020	0.00172 J	0.00160 J	0.000960 J	0.002090	0.006370	-	-

Notes:

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

Analyte concentration exceeds the standard for:

NMOC - Groundwater

Table 3 - Groundwater Analytical Data - Historical - PAH Supplement
Moore to Jal #2
Lovington/Hobbs, NM
SRS#: 2002-10273

Sample ID	Date Sampled	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Dibenzoduran (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno (1,2,3-c,d) pyren (mg/l)	Naphthalene (mg/l)	Phenanthrene (mg/l)	Pyrene (mg/l)
NMOCD - Groundwater		-	-	-	-	0.0007	-	-	-	-	-	-	-	-	-	0.03	-	-
MW-3A	03/15/2016	<0.000033	<0.000058	<0.000032	<0.000072	<0.000042	<0.000071	<0.000052	<0.000056	<0.000081	<0.000056	<0.000061	<0.000064	<0.000079	<0.000054	<0.000066	<0.000052	<0.000041
	03/21/2018	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109
	03/25/2019	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	<0.0000053	<0.0000090	<0.0000055	<0.0000049	<0.0000045	<0.0000055	<0.0000092
MW-4A	03/15/2016	<0.000033	<0.000058	<0.000032	<0.000072	<0.000042	<0.000071	<0.000052	<0.000056	<0.000081	<0.000056	<0.000061	<0.000064	<0.000079	<0.000054	<0.000066	<0.000052	<0.000041
	03/21/2018	<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
	03/25/2019	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	<0.0000053	<0.0000090	<0.0000055	<0.0000049	<0.0000045	<0.0000055	<0.0000092
MW-6	12/02/2016	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	0.000150	<0.0000250	0.000833	<0.0000250	0.000996	<0.0000250	0.00458	0.000795	<0.0000250	<0.0000250
	03/21/2018	<0.000107	0.000172 J	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	0.000466	<0.000107	0.000461	<0.000107	0.00517	0.000523	<0.000107	<0.000107
	03/24/2019	<0.0000042	<0.0000075	<0.0000078	<0.0000065	0.000786	<0.0000094	<0.0000082	<0.0000080	0.000270	<0.0000051	<0.0000055	0.0000623	<0.0000056	<0.0000051	0.0000675	<0.0000057	0.0000828
	03/19/2020	<0.000124	<0.000104	<0.000107	<0.000166	<0.0000706	<0.0000880	<0.000140	<0.000144	<0.000193	<0.0000941	-	<0.000195	<0.000125	<0.000113	<0.000120	<0.000105	<0.000161
MW-7	12/02/2016	0.000172	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	0.000189	<0.0000250	0.000634	<0.0000250	0.000714	<0.0000250	0.0201 D	0.000269	0.0000505
	03/21/2018	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	0.000209	<0.000109	0.000140 J	<0.000109	0.00107	<0.000109	<0.000109
	03/25/2019	<0.0000041	<0.0000074	<0.0000077	<0.0000064	<0.0000096	<0.0000092	<0.0000080	<0.0000079	0.000149	<0.000005	0.0000429	0.0000399	0.0000561	<0.000005	0.000125	<0.0000056	0.0000465
	03/20/2020	<0.000124	<0.000105	<0.000108	<0.000167	<0.0000709	<0.0000884	<0.000141	<0.000144	<0.000194	<0.0000945	-	<0.000195	<0.000125	<0.000113	<0.000121	<0.000106	<0.000162
MW-8	11/30/2016	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250
	03/21/2018	<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
	03/25/2019	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	<0.0000053	<0.0000090	<0.0000055	<0.0000049	0.0000422	<0.0000055	<0.0000092
	03/20/2020	<0.000115	<0.0000967	<0.0000995	<0.000154	<0.0000655	<0.0000816	<0.000130	<0.000133	<0.000179	<0.0000873	-	<0.000181	<0.000116	<0.000105	<0.000112	<0.0000976	<0.000150
MW-9	12/02/2016	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	0.0000694	0.0000535	<0.0000250	0.000491	<0.0000250	<0.0000250	0.000160	<0.0000250	<0.0000250	0.00207	<0.0000250	0.000159
	03/21/2018	0.000210	0.000308	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	0.000823	<0.000109	0.000612	<0.000109	0.0289	-	<0.000109
	03/25/2019	<0.0000041	<0.0000074	<0.0000077	<0.0000064	<0.0000096	<0.0000092	0.0000719	<0.0000079	0.000198	<0.000005	<0.0000054	0.0000735	<0.0000055	<0.000005	0.000126	<0.0000056	0.000105
	03/20/2020	<0.000124	<0.000104	<0.000107	<0.000166	<0.0000705	<0.0000879	<0.000140	<0.000144	<0.000193	<0.0000939	-	<0.000194	<0.000125	<0.000113	0.00573	<0.000105	<0.000161
MW-18	12/05/2016	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250
	03/21/2018	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109
	03/26/2019	<0.0000041	<0.0000074	<0.0000077	<0.0000064	<0.0000096	<0.0000092	<0.0000080	<0.0000079	<0.0000089	<0.000005	<0.0000054	<0.0000090	<0.0000055	<0.000005	0.0000621	<0.0000056	<0.0000093
	03/21/2020	<0.000119	<0.0000998	<0.000103	<0.000159	<0.0000677	<0.0000843	<0.000134	<0.000138	<0.000185	<0.0000901	-	<0.000186	<0.000119	<0.000108	<0.000115	<0.000101	<0.000155
MW-22	03/15/2016	<0.000033	<0.000058	<0.000032	<0.000072	<0.000042	<0.000071	<0.000052	<0.000056	<0.000081	<0.000056	<0.000061	<0.000064	<0.000079	<0.000054	<0.000066	<0.000052	<0.000041
	03/21/2018	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	0.000948	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111
	03/24/2019	<0.0000042	<0.0000075	<0.0000077	<0.0000065	<0.0000097	<0.0000093	<0.0000081	<0.0000079	<0.0000090	<0.0000050	0.000270	<0.0000091	0.0000366	<0.0000050	<0.0000046	<0.0000056	<0.0000094
	03/19/2020	<0.000111	<0.0000933	<0.0000960	<0.000149	<0.0000632	<0.0000788	<0.000125	<0.000129	<0.000173	<0.0000842	-	<0.000174	<0.000112	<0.000101	<0.000108	<0.0000942	<0.000144
MW-23	03/15/2016	<0.000033	<0.000058	<0.000032	<0.000072	0.000983	<0.000071	0.0333	<0.000056	<0.000081	0.107	<0.000061	<0.000064	<0.000079	0.168	<0.000066	<0.000052	<0.000041
	03/21/2018	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	0.000889	<0.000110	<0.000110
	03/24/2019	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	0.000209	<0.0000090	0.0000325	<0.0000049	0.000416	0.000184	<0.0000092
	03/19/2020	<0.000116	<0.0000980	<0.000101	<0.000157	<0.0000664	<0.0000828	<0.000132	<0.000135	<0.000182	<0.0000885	-	<0.000183	<0.000117	<0.000106	<0.000113	<0.0000990	<0.000152

Notes:

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

Analyte concentration exceeds the standard for:

NMOCD - Groundwater

APPENDIX C

Laboratory Analytical Data Reports and Chain of Custody Documentation



Analytical Report 656474

for

Talon LPE-Artesia

Project Manager: David Adkins

Moore to Jal 2

700376 045 04

03.27.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



03.27.2020

Project Manager: **David Adkins**

Talon LPE-Artesia

408 West Texas St.

Artesia, NM 88210

Reference: XENCO Report No(s): **656474**

Moore to Jal 2

Project Address:

David Adkins:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 656474. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 656474 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'. The signature is written in a cursive, flowing style.

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

**Sample Cross Reference 656474****Talon LPE-Artesia, Artesia, NM**

Moore to Jal 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW20	W	03.21.2020 10:20		656474-001
MW21	W	03.21.2020 11:15		656474-002
MW19	W	03.21.2020 11:45		656474-003
MW18	W	03.21.2020 12:20		656474-004
MW17	W	03.21.2020 13:00		656474-005
MW10	W	03.20.2020 13:45		656474-006
MW5	W	03.21.2020 08:20		656474-007
MW9	W	03.20.2020 13:15		656474-008
MW7	W	03.20.2020 09:15		656474-009
MW3A	W	03.20.2020 12:45		656474-010
MW8	W	03.20.2020 11:45		656474-011
MW13	W	03.20.2020 11:00		656474-012
MW4A	W	03.20.2020 10:20		656474-013
MW12	W	03.19.2020 14:20		656474-014
MW6	W	03.19.2020 15:20		656474-015
MW11	W	03.19.2020 13:30		656474-016
MW23	W	03.19.2020 12:05		656474-017
MW22	W	03.19.2020 11:30		656474-018

**CASE NARRATIVE****Client Name: Talon LPE-Artesia****Project Name: Moore to Jal 2**Project ID: 700376 045 04
Work Order Number(s): 656474Report Date: 03.27.2020
Date Received: 03.23.2020

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM
Moore to Jal 2

Sample Id: **MW20**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-001

Date Collected: 03.21.2020 10:20

Date Received: 03.23.2020 07:55

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: MIT

% Moist:

Tech: MIT

Seq Number: 3120995

Date Prep: 03.24.2020 12:57

Subcontractor: SUB: T104704219-19-21

Prep seq: 7699779

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00490	0.00100	0.000480	mg/L	03.25.2020 17:05		1
Toluene	108-88-3	0.00160	0.00100	0.000512	mg/L	03.25.2020 17:05		1
Ethylbenzene	100-41-4	0.00120	0.00100	0.000616	mg/L	03.25.2020 17:05		1
m_p-Xylenes	179601-23-1	0.00200	0.00200	0.000454	mg/L	03.25.2020 17:05	J	1
o-Xylene	95-47-6	0.00160	0.00100	0.000270	mg/L	03.25.2020 17:05		1
Xylenes, Total	1330-20-7	0.00360		0.000270	mg/L	03.25.2020 17:05		
Total BTEX		0.0113		0.000270	mg/L	03.25.2020 17:05		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	103	66 - 120	%		
4-Bromofluorobenzene	110	67 - 120	%		

Sample Id: **MW21**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-002

Date Collected: 03.21.2020 11:15

Date Received: 03.23.2020 07:55

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: MIT

% Moist:

Tech: MIT

Seq Number: 3120995

Date Prep: 03.24.2020 12:57

Subcontractor: SUB: T104704219-19-21

Prep seq: 7699779

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00140	0.00100	0.000480	mg/L	03.25.2020 17:32		1
Toluene	108-88-3	0.000900	0.00100	0.000512	mg/L	03.25.2020 17:32	J	1
Ethylbenzene	100-41-4	0.000800	0.00100	0.000616	mg/L	03.25.2020 17:32	J	1
m_p-Xylenes	179601-23-1	0.00110	0.00200	0.000454	mg/L	03.25.2020 17:32	J	1
o-Xylene	95-47-6	<0.000270	0.00100	0.000270	mg/L	03.25.2020 17:32	U	1
Xylenes, Total	1330-20-7	0.00110		0.000270	mg/L	03.25.2020 17:32		
Total BTEX		0.00420		0.000270	mg/L	03.25.2020 17:32		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	75	66 - 120	%		
4-Bromofluorobenzene	71	67 - 120	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM

Moore to Jal 2

Sample Id: **MW19**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-003

Date Collected: 03.21.2020 11:45

Date Received: 03.23.2020 07:55

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: MIT

% Moist:

Tech: MIT

Seq Number: 3120995

Date Prep: 03.24.2020 12:57

Subcontractor: SUB: T104704219-19-21

Prep seq: 7699779

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00110	0.00100	0.000480	mg/L	03.25.2020 17:59		1
Toluene	108-88-3	<0.000512	0.00100	0.000512	mg/L	03.25.2020 17:59	U	1
Ethylbenzene	100-41-4	0.000700	0.00100	0.000616	mg/L	03.25.2020 17:59	J	1
m_p-Xylenes	179601-23-1	<0.000454	0.00200	0.000454	mg/L	03.25.2020 17:59	U	1
o-Xylene	95-47-6	<0.000270	0.00100	0.000270	mg/L	03.25.2020 17:59	U	1
Xylenes, Total	1330-20-7	<0.000270		0.000270	mg/L	03.25.2020 17:59	U	
Total BTEX		0.00180		0.000270	mg/L	03.25.2020 17:59		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	70	66 - 120	%		
4-Bromofluorobenzene	73	67 - 120	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM

Moore to Jal 2

Sample Id: **MW18**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-004

Date Collected: 03.21.2020 12:20

Date Received: 03.23.2020 07:55

Analytical Method: PAHs by SW846 8270D SIM

Prep Method: SW3511

Analyst: DNE

% Moist:

Tech: DNE

Seq Number: 3120999

Date Prep: 03.25.2020 08:39

Subcontractor: SUB: T104704215-19-30

Prep seq: 7699642

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
1-Methylnaphthalene	90-12-0	<0.0000943	0.000216	0.0000943	mg/L	03.25.2020 14:51	U	1
2-Methylnaphthalene	91-57-6	<0.000108	0.000216	0.000108	mg/L	03.25.2020 14:51	U	1
Acenaphthene	83-32-9	<0.000119	0.000216	0.000119	mg/L	03.25.2020 14:51	U	1
Acenaphthylene	208-96-8	<0.0000998	0.000216	0.0000998	mg/L	03.25.2020 14:51	U	1
Anthracene	120-12-7	<0.000103	0.000216	0.000103	mg/L	03.25.2020 14:51	U	1
Benzo(a)anthracene	56-55-3	<0.000159	0.000216	0.000159	mg/L	03.25.2020 14:51	U	1
Benzo(a)pyrene	50-32-8	<0.0000677	0.000216	0.0000677	mg/L	03.25.2020 14:51	U	1
Benzo(b)fluoranthene	205-99-2	<0.0000843	0.000216	0.0000843	mg/L	03.25.2020 14:51	U	1
Benzo(g,h,i)perylene	191-24-2	<0.000134	0.000216	0.000134	mg/L	03.25.2020 14:51	U	1
Benzo(k)fluoranthene	207-08-9	<0.000138	0.000216	0.000138	mg/L	03.25.2020 14:51	U	1
Chrysene	218-01-9	<0.000185	0.000216	0.000185	mg/L	03.25.2020 14:51	U	1
Dibenz(a,h)anthracene	53-70-3	<0.0000901	0.000216	0.0000901	mg/L	03.25.2020 14:51	U	1
Fluoranthene	206-44-0	<0.000186	0.000216	0.000186	mg/L	03.25.2020 14:51	U	1
Fluorene	86-73-7	<0.000119	0.000216	0.000119	mg/L	03.25.2020 14:51	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	<0.000108	0.000216	0.000108	mg/L	03.25.2020 14:51	U	1
Naphthalene	91-20-3	<0.000115	0.000431	0.000115	mg/L	03.25.2020 14:51	U	1
Phenanthrene	85-01-8	<0.000101	0.000216	0.000101	mg/L	03.25.2020 14:51	U	1
Pyrene	129-00-0	<0.000155	0.000216	0.000155	mg/L	03.25.2020 14:51	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
2-Fluorobiphenyl	114	54 - 146	%		
Nitrobenzene-d5	109	46 - 151	%		
Terphenyl-D14	120	51 - 139	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM
Moore to Jal 2

Sample Id: **MW18**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-004

Date Collected: 03.21.2020 12:20

Date Received: 03.23.2020 07:55

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: MIT

% Moist:

Tech: MIT

Seq Number: 3120995

Date Prep: 03.24.2020 12:57

Subcontractor: SUB: T104704219-19-21

Prep seq: 7699779

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000480	0.00100	0.000480	mg/L	03.25.2020 18:26	U	1
Toluene	108-88-3	<0.000512	0.00100	0.000512	mg/L	03.25.2020 18:26	U	1
Ethylbenzene	100-41-4	0.000900	0.00100	0.000616	mg/L	03.25.2020 18:26	J	1
m_p-Xylenes	179601-23-1	0.000800	0.00200	0.000454	mg/L	03.25.2020 18:26	J	1
o-Xylene	95-47-6	<0.000270	0.00100	0.000270	mg/L	03.25.2020 18:26	U	1
Xylenes, Total	1330-20-7	0.000800		0.000270	mg/L	03.25.2020 18:26	J	
Total BTEX		0.00170		0.000270	mg/L	03.25.2020 18:26		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	104	66 - 120	%		
4-Bromofluorobenzene	110	67 - 120	%		

Sample Id: **MW17**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-005

Date Collected: 03.21.2020 13:00

Date Received: 03.23.2020 07:55

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: MIT

% Moist:

Tech: MIT

Seq Number: 3120995

Date Prep: 03.24.2020 12:57

Subcontractor: SUB: T104704219-19-21

Prep seq: 7699779

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000480	0.00100	0.000480	mg/L	03.25.2020 18:53	U	1
Toluene	108-88-3	<0.000512	0.00100	0.000512	mg/L	03.25.2020 18:53	U	1
Ethylbenzene	100-41-4	<0.000616	0.00100	0.000616	mg/L	03.25.2020 18:53	U	1
m_p-Xylenes	179601-23-1	<0.000454	0.00200	0.000454	mg/L	03.25.2020 18:53	U	1
o-Xylene	95-47-6	<0.000270	0.00100	0.000270	mg/L	03.25.2020 18:53	U	1
Xylenes, Total	1330-20-7	<0.000270		0.000270	mg/L	03.25.2020 18:53	U	
Total BTEX		<0.000270		0.000270	mg/L	03.25.2020 18:53	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	101	66 - 120	%		
4-Bromofluorobenzene	109	67 - 120	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM

Moore to Jal 2

Sample Id: **MW10**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-006

Date Collected: 03.20.2020 13:45

Date Received: 03.23.2020 07:55

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: MIT

% Moist:

Tech: MIT

Seq Number: 3120995

Date Prep: 03.24.2020 12:57

Subcontractor: SUB: T104704219-19-21

Prep seq: 7699779

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00430	0.00100	0.000480	mg/L	03.25.2020 19:20		1
Toluene	108-88-3	<0.000512	0.00100	0.000512	mg/L	03.25.2020 19:20	U	1
Ethylbenzene	100-41-4	0.00390	0.00100	0.000616	mg/L	03.25.2020 19:20		1
m_p-Xylenes	179601-23-1	0.00430	0.00200	0.000454	mg/L	03.25.2020 19:20		1
o-Xylene	95-47-6	0.00270	0.00100	0.000270	mg/L	03.25.2020 19:20		1
Xylenes, Total	1330-20-7	0.00700		0.000270	mg/L	03.25.2020 19:20		
Total BTEX		0.0152		0.000270	mg/L	03.25.2020 19:20		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	103	66 - 120	%		
4-Bromofluorobenzene	108	67 - 120	%		

Sample Id: **MW5**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-007

Date Collected: 03.21.2020 08:20

Date Received: 03.23.2020 07:55

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: MIT

% Moist:

Tech: MIT

Seq Number: 3120995

Date Prep: 03.24.2020 12:57

Subcontractor: SUB: T104704219-19-21

Prep seq: 7699779

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00450	0.00100	0.000480	mg/L	03.25.2020 19:47		1
Toluene	108-88-3	0.00140	0.00100	0.000512	mg/L	03.25.2020 19:47		1
Ethylbenzene	100-41-4	0.00140	0.00100	0.000616	mg/L	03.25.2020 19:47		1
m_p-Xylenes	179601-23-1	0.00220	0.00200	0.000454	mg/L	03.25.2020 19:47		1
o-Xylene	95-47-6	0.00200	0.00100	0.000270	mg/L	03.25.2020 19:47		1
Xylenes, Total	1330-20-7	0.00420		0.000270	mg/L	03.25.2020 19:47		
Total BTEX		0.0115		0.000270	mg/L	03.25.2020 19:47		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	98	66 - 120	%		
4-Bromofluorobenzene	109	67 - 120	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM

Moore to Jal 2

Sample Id: **MW9**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-008

Date Collected: 03.20.2020 13:15

Date Received: 03.23.2020 07:55

Analytical Method: PAHs by SW846 8270D SIM

Prep Method: SW3511

Analyst: DNE

% Moist:

Tech: DNE

Seq Number: 3120999

Date Prep: 03.25.2020 08:42

Subcontractor: SUB: T104704215-19-30

Prep seq: 7699642

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
1-Methylnaphthalene	90-12-0	0.00272	0.000225	0.0000983	mg/L	03.25.2020 15:08		1
2-Methylnaphthalene	91-57-6	0.00208	0.000225	0.000113	mg/L	03.25.2020 15:08		1
Acenaphthene	83-32-9	<0.000124	0.000225	0.000124	mg/L	03.25.2020 15:08	U	1
Acenaphthylene	208-96-8	<0.000104	0.000225	0.000104	mg/L	03.25.2020 15:08	U	1
Anthracene	120-12-7	<0.000107	0.000225	0.000107	mg/L	03.25.2020 15:08	U	1
Benzo(a)anthracene	56-55-3	<0.000166	0.000225	0.000166	mg/L	03.25.2020 15:08	U	1
Benzo(a)pyrene	50-32-8	<0.0000705	0.000225	0.0000705	mg/L	03.25.2020 15:08	U	1
Benzo(b)fluoranthene	205-99-2	<0.0000879	0.000225	0.0000879	mg/L	03.25.2020 15:08	U	1
Benzo(g,h,i)perylene	191-24-2	<0.000140	0.000225	0.000140	mg/L	03.25.2020 15:08	U	1
Benzo(k)fluoranthene	207-08-9	<0.000144	0.000225	0.000144	mg/L	03.25.2020 15:08	U	1
Chrysene	218-01-9	<0.000193	0.000225	0.000193	mg/L	03.25.2020 15:08	U	1
Dibenz(a,h)anthracene	53-70-3	<0.0000939	0.000225	0.0000939	mg/L	03.25.2020 15:08	U	1
Fluoranthene	206-44-0	<0.000194	0.000225	0.000194	mg/L	03.25.2020 15:08	U	1
Fluorene	86-73-7	<0.000125	0.000225	0.000125	mg/L	03.25.2020 15:08	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	<0.000113	0.000225	0.000113	mg/L	03.25.2020 15:08	U	1
Naphthalene	91-20-3	0.00573	0.000449	0.000120	mg/L	03.25.2020 15:08		1
Phenanthrene	85-01-8	<0.000105	0.000225	0.000105	mg/L	03.25.2020 15:08	U	1
Pyrene	129-00-0	<0.000161	0.000225	0.000161	mg/L	03.25.2020 15:08	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
2-Fluorobiphenyl	99	54 - 146	%		
Nitrobenzene-d5	95	46 - 151	%		
Terphenyl-D14	112	51 - 139	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM
Moore to Jal 2

Sample Id: MW9	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 656474-008	Date Collected: 03.20.2020 13:15	Date Received: 03.23.2020 07:55
Analytical Method: BTEX by EPA 8021		Prep Method: 5030B
Analyst: MIT	% Moist:	Tech: MIT
Seq Number: 3120995	Date Prep: 03.24.2020 12:57	
Subcontractor: SUB: T104704219-19-21	Prep seq: 7699779	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.246	0.00100	0.000480	mg/L	03.25.2020 20:13		1
Toluene	108-88-3	0.00110	0.00100	0.000512	mg/L	03.25.2020 20:13		1
Ethylbenzene	100-41-4	0.0718	0.00100	0.000616	mg/L	03.25.2020 20:13		1
m_p-Xylenes	179601-23-1	0.0892	0.00200	0.000454	mg/L	03.25.2020 20:13		1
o-Xylene	95-47-6	0.0481	0.00100	0.000270	mg/L	03.25.2020 20:13		1
Xylenes, Total	1330-20-7	0.137		0.000270	mg/L	03.25.2020 20:13		
Total BTEX		0.456		0.000270	mg/L	03.25.2020 20:13		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	96	66 - 120	%		
4-Bromofluorobenzene	102	67 - 120	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM

Moore to Jal 2

Sample Id: MW7

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-009

Date Collected: 03.20.2020 09:15

Date Received: 03.23.2020 07:55

Analytical Method: PAHs by SW846 8270D SIM

Prep Method: SW3511

Analyst: DNE

% Moist:

Tech: DNE

Seq Number: 3120999

Date Prep: 03.25.2020 09:00

Subcontractor: SUB: T104704215-19-30

Prep seq: 7699642

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
1-Methylnaphthalene	90-12-0	<0.0000989	0.000226	0.0000989	mg/L	03.25.2020 14:16	U	1
2-Methylnaphthalene	91-57-6	<0.000113	0.000226	0.000113	mg/L	03.25.2020 14:16	U	1
Acenaphthene	83-32-9	<0.000124	0.000226	0.000124	mg/L	03.25.2020 14:16	U	1
Acenaphthylene	208-96-8	<0.000105	0.000226	0.000105	mg/L	03.25.2020 14:16	U	1
Anthracene	120-12-7	<0.000108	0.000226	0.000108	mg/L	03.25.2020 14:16	U	1
Benzo(a)anthracene	56-55-3	<0.000167	0.000226	0.000167	mg/L	03.25.2020 14:16	U	1
Benzo(a)pyrene	50-32-8	<0.0000709	0.000226	0.0000709	mg/L	03.25.2020 14:16	U	1
Benzo(b)fluoranthene	205-99-2	<0.0000884	0.000226	0.0000884	mg/L	03.25.2020 14:16	U	1
Benzo(g,h,i)perylene	191-24-2	<0.000141	0.000226	0.000141	mg/L	03.25.2020 14:16	U	1
Benzo(k)fluoranthene	207-08-9	<0.000144	0.000226	0.000144	mg/L	03.25.2020 14:16	U	1
Chrysene	218-01-9	<0.000194	0.000226	0.000194	mg/L	03.25.2020 14:16	U	1
Dibenz(a,h)anthracene	53-70-3	<0.0000945	0.000226	0.0000945	mg/L	03.25.2020 14:16	U	1
Fluoranthene	206-44-0	<0.000195	0.000226	0.000195	mg/L	03.25.2020 14:16	U	1
Fluorene	86-73-7	<0.000125	0.000226	0.000125	mg/L	03.25.2020 14:16	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	<0.000113	0.000226	0.000113	mg/L	03.25.2020 14:16	U	1
Naphthalene	91-20-3	<0.000121	0.000452	0.000121	mg/L	03.25.2020 14:16	U	1
Phenanthrene	85-01-8	<0.000106	0.000226	0.000106	mg/L	03.25.2020 14:16	U	1
Pyrene	129-00-0	<0.000162	0.000226	0.000162	mg/L	03.25.2020 14:16	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
2-Fluorobiphenyl	99	54 - 146	%		
Nitrobenzene-d5	95	46 - 151	%		
Terphenyl-D14	109	51 - 139	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM
Moore to Jal 2

Sample Id: MW7	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 656474-009	Date Collected: 03.20.2020 09:15	Date Received: 03.23.2020 07:55
Analytical Method: BTEX by EPA 8021		Prep Method: 5030B
Analyst: MIT	% Moist:	Tech: MIT
Seq Number: 3120995	Date Prep: 03.24.2020 12:57	
Subcontractor: SUB: T104704219-19-21	Prep seq: 7699779	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.0557	0.00100	0.000480	mg/L	03.25.2020 22:01		1
Toluene	108-88-3	0.00730	0.00100	0.000512	mg/L	03.25.2020 22:01		1
Ethylbenzene	100-41-4	0.00170	0.00100	0.000616	mg/L	03.25.2020 22:01		1
m_p-Xylenes	179601-23-1	0.00400	0.00200	0.000454	mg/L	03.25.2020 22:01		1
o-Xylene	95-47-6	0.00300	0.00100	0.000270	mg/L	03.25.2020 22:01		1
Xylenes, Total	1330-20-7	0.00700		0.000270	mg/L	03.25.2020 22:01		
Total BTEX		0.0717		0.000270	mg/L	03.25.2020 22:01		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	93	66 - 120	%		
4-Bromofluorobenzene	106	67 - 120	%		

Sample Id: MW3A	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 656474-010	Date Collected: 03.20.2020 12:45	Date Received: 03.23.2020 07:55
Analytical Method: BTEX by EPA 8021		Prep Method: 5030B
Analyst: MIT	% Moist:	Tech: MIT
Seq Number: 3120995	Date Prep: 03.24.2020 12:57	
Subcontractor: SUB: T104704219-19-21	Prep seq: 7699779	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000480	0.00100	0.000480	mg/L	03.25.2020 22:28	U	1
Toluene	108-88-3	<0.000512	0.00100	0.000512	mg/L	03.25.2020 22:28	U	1
Ethylbenzene	100-41-4	<0.000616	0.00100	0.000616	mg/L	03.25.2020 22:28	U	1
m_p-Xylenes	179601-23-1	<0.000454	0.00200	0.000454	mg/L	03.25.2020 22:28	U	1
o-Xylene	95-47-6	<0.000270	0.00100	0.000270	mg/L	03.25.2020 22:28	U	1
Xylenes, Total	1330-20-7	<0.000270		0.000270	mg/L	03.25.2020 22:28	U	
Total BTEX		<0.000270		0.000270	mg/L	03.25.2020 22:28	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	99	66 - 120	%		
4-Bromofluorobenzene	109	67 - 120	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM

Moore to Jal 2

Sample Id: **MW8**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-011

Date Collected: 03.20.2020 11:45

Date Received: 03.23.2020 07:55

Analytical Method: PAHs by SW846 8270D SIM

Prep Method: SW3511

Analyst: DNE

% Moist:

Tech: DNE

Seq Number: 3120999

Date Prep: 03.25.2020 08:48

Subcontractor: SUB: T104704215-19-30

Prep seq: 7699642

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
1-Methylnaphthalene	90-12-0	<0.0000913	0.000209	0.0000913	mg/L	03.25.2020 15:26	U	1
2-Methylnaphthalene	91-57-6	<0.000105	0.000209	0.000105	mg/L	03.25.2020 15:26	U	1
Acenaphthene	83-32-9	<0.000115	0.000209	0.000115	mg/L	03.25.2020 15:26	U	1
Acenaphthylene	208-96-8	<0.0000967	0.000209	0.0000967	mg/L	03.25.2020 15:26	U	1
Anthracene	120-12-7	<0.0000995	0.000209	0.0000995	mg/L	03.25.2020 15:26	U	1
Benzo(a)anthracene	56-55-3	<0.000154	0.000209	0.000154	mg/L	03.25.2020 15:26	U	1
Benzo(a)pyrene	50-32-8	<0.0000655	0.000209	0.0000655	mg/L	03.25.2020 15:26	U	1
Benzo(b)fluoranthene	205-99-2	<0.0000816	0.000209	0.0000816	mg/L	03.25.2020 15:26	U	1
Benzo(g,h,i)perylene	191-24-2	<0.000130	0.000209	0.000130	mg/L	03.25.2020 15:26	U	1
Benzo(k)fluoranthene	207-08-9	<0.000133	0.000209	0.000133	mg/L	03.25.2020 15:26	U	1
Chrysene	218-01-9	<0.000179	0.000209	0.000179	mg/L	03.25.2020 15:26	U	1
Dibenz(a,h)anthracene	53-70-3	<0.0000873	0.000209	0.0000873	mg/L	03.25.2020 15:26	U	1
Fluoranthene	206-44-0	<0.000181	0.000209	0.000181	mg/L	03.25.2020 15:26	U	1
Fluorene	86-73-7	<0.000116	0.000209	0.000116	mg/L	03.25.2020 15:26	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	<0.000105	0.000209	0.000105	mg/L	03.25.2020 15:26	U	1
Naphthalene	91-20-3	<0.000112	0.000418	0.000112	mg/L	03.25.2020 15:26	U	1
Phenanthrene	85-01-8	<0.0000976	0.000209	0.0000976	mg/L	03.25.2020 15:26	U	1
Pyrene	129-00-0	<0.000150	0.000209	0.000150	mg/L	03.25.2020 15:26	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
2-Fluorobiphenyl	116	54 - 146	%		
Nitrobenzene-d5	110	46 - 151	%		
Terphenyl-D14	121	51 - 139	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM

Moore to Jal 2

Sample Id: **MW8**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-011

Date Collected: 03.20.2020 11:45

Date Received: 03.23.2020 07:55

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: MIT

% Moist:

Tech: MIT

Seq Number: 3120995

Date Prep: 03.24.2020 12:57

Subcontractor: SUB: T104704219-19-21

Prep seq: 7699779

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000480	0.00100	0.000480	mg/L	03.25.2020 22:54	U	1
Toluene	108-88-3	<0.000512	0.00100	0.000512	mg/L	03.25.2020 22:54	U	1
Ethylbenzene	100-41-4	<0.000616	0.00100	0.000616	mg/L	03.25.2020 22:54	U	1
m_p-Xylenes	179601-23-1	<0.000454	0.00200	0.000454	mg/L	03.25.2020 22:54	U	1
o-Xylene	95-47-6	<0.000270	0.00100	0.000270	mg/L	03.25.2020 22:54	U	1
Xylenes, Total	1330-20-7	<0.000270		0.000270	mg/L	03.25.2020 22:54	U	
Total BTEX		<0.000270		0.000270	mg/L	03.25.2020 22:54	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	103	66 - 120	%		
4-Bromofluorobenzene	109	67 - 120	%		

Sample Id: **MW13**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-012

Date Collected: 03.20.2020 11:00

Date Received: 03.23.2020 07:55

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: MIT

% Moist:

Tech: MIT

Seq Number: 3120995

Date Prep: 03.24.2020 12:57

Subcontractor: SUB: T104704219-19-21

Prep seq: 7699779

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000480	0.00100	0.000480	mg/L	03.25.2020 23:21	U	1
Toluene	108-88-3	<0.000512	0.00100	0.000512	mg/L	03.25.2020 23:21	U	1
Ethylbenzene	100-41-4	<0.000616	0.00100	0.000616	mg/L	03.25.2020 23:21	U	1
m_p-Xylenes	179601-23-1	<0.000454	0.00200	0.000454	mg/L	03.25.2020 23:21	U	1
o-Xylene	95-47-6	<0.000270	0.00100	0.000270	mg/L	03.25.2020 23:21	U	1
Xylenes, Total	1330-20-7	<0.000270		0.000270	mg/L	03.25.2020 23:21	U	
Total BTEX		<0.000270		0.000270	mg/L	03.25.2020 23:21	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	103	66 - 120	%		
4-Bromofluorobenzene	104	67 - 120	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM
Moore to Jal 2

Sample Id: **MW4A**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-013

Date Collected: 03.20.2020 10:20

Date Received: 03.23.2020 07:55

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: MIT

% Moist:

Tech: MIT

Seq Number: 3120995

Date Prep: 03.24.2020 12:57

Subcontractor: SUB: T104704219-19-21

Prep seq: 7699779

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000480	0.00100	0.000480	mg/L	03.25.2020 23:48	U	1
Toluene	108-88-3	<0.000512	0.00100	0.000512	mg/L	03.25.2020 23:48	U	1
Ethylbenzene	100-41-4	<0.000616	0.00100	0.000616	mg/L	03.25.2020 23:48	U	1
m_p-Xylenes	179601-23-1	<0.000454	0.00200	0.000454	mg/L	03.25.2020 23:48	U	1
o-Xylene	95-47-6	<0.000270	0.00100	0.000270	mg/L	03.25.2020 23:48	U	1
Xylenes, Total	1330-20-7	<0.000270		0.000270	mg/L	03.25.2020 23:48	U	
Total BTEX		<0.000270		0.000270	mg/L	03.25.2020 23:48	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	103	66 - 120	%		
4-Bromofluorobenzene	107	67 - 120	%		

Sample Id: **MW12**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-014

Date Collected: 03.19.2020 14:20

Date Received: 03.23.2020 07:55

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: MIT

% Moist:

Tech: MIT

Seq Number: 3120995

Date Prep: 03.24.2020 12:57

Subcontractor: SUB: T104704219-19-21

Prep seq: 7699779

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000480	0.00100	0.000480	mg/L	03.26.2020 00:14	U	1
Toluene	108-88-3	<0.000512	0.00100	0.000512	mg/L	03.26.2020 00:14	U	1
Ethylbenzene	100-41-4	<0.000616	0.00100	0.000616	mg/L	03.26.2020 00:14	U	1
m_p-Xylenes	179601-23-1	<0.000454	0.00200	0.000454	mg/L	03.26.2020 00:14	U	1
o-Xylene	95-47-6	<0.000270	0.00100	0.000270	mg/L	03.26.2020 00:14	U	1
Xylenes, Total	1330-20-7	<0.000270		0.000270	mg/L	03.26.2020 00:14	U	
Total BTEX		<0.000270		0.000270	mg/L	03.26.2020 00:14	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	100	66 - 120	%		
4-Bromofluorobenzene	107	67 - 120	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM
Moore to Jal 2

Sample Id: MW6	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 656474-015	Date Collected: 03.19.2020 15:20	Date Received: 03.23.2020 07:55
Analytical Method: PAHs by SW846 8270D SIM		Prep Method: SW3511
Analyst: DNE	% Moist:	Tech: DNE
Seq Number: 3120999	Date Prep: 03.25.2020 09:03	
Subcontractor: SUB: T104704215-19-30	Prep seq: 7699642	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
1-Methylnaphthalene	90-12-0	0.000137	0.000225	0.0000985	mg/L	03.25.2020 14:34	J	1
2-Methylnaphthalene	91-57-6	<0.000113	0.000225	0.000113	mg/L	03.25.2020 14:34	U	1
Acenaphthene	83-32-9	<0.000124	0.000225	0.000124	mg/L	03.25.2020 14:34	U	1
Acenaphthylene	208-96-8	<0.000104	0.000225	0.000104	mg/L	03.25.2020 14:34	U	1
Anthracene	120-12-7	<0.000107	0.000225	0.000107	mg/L	03.25.2020 14:34	U	1
Benzo(a)anthracene	56-55-3	<0.000166	0.000225	0.000166	mg/L	03.25.2020 14:34	U	1
Benzo(a)pyrene	50-32-8	<0.0000706	0.000225	0.0000706	mg/L	03.25.2020 14:34	U	1
Benzo(b)fluoranthene	205-99-2	<0.0000880	0.000225	0.0000880	mg/L	03.25.2020 14:34	U	1
Benzo(g,h,i)perylene	191-24-2	<0.000140	0.000225	0.000140	mg/L	03.25.2020 14:34	U	1
Benzo(k)fluoranthene	207-08-9	<0.000144	0.000225	0.000144	mg/L	03.25.2020 14:34	U	1
Chrysene	218-01-9	<0.000193	0.000225	0.000193	mg/L	03.25.2020 14:34	U	1
Dibenz(a,h)anthracene	53-70-3	<0.0000941	0.000225	0.0000941	mg/L	03.25.2020 14:34	U	1
Fluoranthene	206-44-0	<0.000195	0.000225	0.000195	mg/L	03.25.2020 14:34	U	1
Fluorene	86-73-7	<0.000125	0.000225	0.000125	mg/L	03.25.2020 14:34	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	<0.000113	0.000225	0.000113	mg/L	03.25.2020 14:34	U	1
Naphthalene	91-20-3	<0.000120	0.000450	0.000120	mg/L	03.25.2020 14:34	U	1
Phenanthrene	85-01-8	<0.000105	0.000225	0.000105	mg/L	03.25.2020 14:34	U	1
Pyrene	129-00-0	<0.000161	0.000225	0.000161	mg/L	03.25.2020 14:34	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
2-Fluorobiphenyl	105	54 - 146	%		
Nitrobenzene-d5	100	46 - 151	%		
Terphenyl-D14	112	51 - 139	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM

Moore to Jal 2

Sample Id: **MW6** Matrix: Ground Water Sample Depth:

Lab Sample Id: 656474-015 Date Collected: 03.19.2020 15:20 Date Received: 03.23.2020 07:55

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MIT % Moist: Tech: MIT

Seq Number: 3120995 Date Prep: 03.24.2020 12:57

Subcontractor: SUB: T104704219-19-21 Prep seq: 7699779

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.0130	0.00100	0.000480	mg/L	03.26.2020 00:41		1
Toluene	108-88-3	0.00230	0.00100	0.000512	mg/L	03.26.2020 00:41		1
Ethylbenzene	100-41-4	<0.000616	0.00100	0.000616	mg/L	03.26.2020 00:41	U	1
m_p-Xylenes	179601-23-1	0.00160	0.00200	0.000454	mg/L	03.26.2020 00:41	J	1
o-Xylene	95-47-6	0.00160	0.00100	0.000270	mg/L	03.26.2020 00:41		1
Xylenes, Total	1330-20-7	0.00320		0.000270	mg/L	03.26.2020 00:41		
Total BTEX		0.0185		0.000270	mg/L	03.26.2020 00:41		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	98	66 - 120	%		
4-Bromofluorobenzene	107	67 - 120	%		

Sample Id: **MW11** Matrix: Ground Water Sample Depth:

Lab Sample Id: 656474-016 Date Collected: 03.19.2020 13:30 Date Received: 03.23.2020 07:55

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MIT % Moist: Tech: MIT

Seq Number: 3120995 Date Prep: 03.24.2020 12:57

Subcontractor: SUB: T104704219-19-21 Prep seq: 7699779

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000480	0.00100	0.000480	mg/L	03.26.2020 01:08	U	1
Toluene	108-88-3	<0.000512	0.00100	0.000512	mg/L	03.26.2020 01:08	U	1
Ethylbenzene	100-41-4	<0.000616	0.00100	0.000616	mg/L	03.26.2020 01:08	U	1
m_p-Xylenes	179601-23-1	<0.000454	0.00200	0.000454	mg/L	03.26.2020 01:08	U	1
o-Xylene	95-47-6	<0.000270	0.00100	0.000270	mg/L	03.26.2020 01:08	U	1
Xylenes, Total	1330-20-7	<0.000270		0.000270	mg/L	03.26.2020 01:08	U	
Total BTEX		<0.000270		0.000270	mg/L	03.26.2020 01:08	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	100	66 - 120	%		
4-Bromofluorobenzene	108	67 - 120	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM
Moore to Jal 2

Sample Id: **MW23**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-017

Date Collected: 03.19.2020 12:05

Date Received: 03.23.2020 07:55

Analytical Method: PAHs by SW846 8270D SIM

Prep Method: SW3511

Analyst: DNE

% Moist:

Tech: DNE

Seq Number: 3120999

Date Prep: 03.25.2020 08:54

Subcontractor: SUB: T104704215-19-30

Prep seq: 7699642

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
1-Methylnaphthalene	90-12-0	<0.0000926	0.000212	0.0000926	mg/L	03.25.2020 15:43	U	1
2-Methylnaphthalene	91-57-6	<0.000106	0.000212	0.000106	mg/L	03.25.2020 15:43	U	1
Acenaphthene	83-32-9	<0.000116	0.000212	0.000116	mg/L	03.25.2020 15:43	U	1
Acenaphthylene	208-96-8	<0.0000980	0.000212	0.0000980	mg/L	03.25.2020 15:43	U	1
Anthracene	120-12-7	<0.000101	0.000212	0.000101	mg/L	03.25.2020 15:43	U	1
Benzo(a)anthracene	56-55-3	<0.000157	0.000212	0.000157	mg/L	03.25.2020 15:43	U	1
Benzo(a)pyrene	50-32-8	<0.0000664	0.000212	0.0000664	mg/L	03.25.2020 15:43	U	1
Benzo(b)fluoranthene	205-99-2	<0.0000828	0.000212	0.0000828	mg/L	03.25.2020 15:43	U	1
Benzo(g,h,i)perylene	191-24-2	<0.000132	0.000212	0.000132	mg/L	03.25.2020 15:43	U	1
Benzo(k)fluoranthene	207-08-9	<0.000135	0.000212	0.000135	mg/L	03.25.2020 15:43	U	1
Chrysene	218-01-9	<0.000182	0.000212	0.000182	mg/L	03.25.2020 15:43	U	1
Dibenz(a,h)anthracene	53-70-3	<0.0000885	0.000212	0.0000885	mg/L	03.25.2020 15:43	U	1
Fluoranthene	206-44-0	<0.000183	0.000212	0.000183	mg/L	03.25.2020 15:43	U	1
Fluorene	86-73-7	<0.000117	0.000212	0.000117	mg/L	03.25.2020 15:43	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	<0.000106	0.000212	0.000106	mg/L	03.25.2020 15:43	U	1
Naphthalene	91-20-3	<0.000113	0.000423	0.000113	mg/L	03.25.2020 15:43	U	1
Phenanthrene	85-01-8	<0.0000990	0.000212	0.0000990	mg/L	03.25.2020 15:43	U	1
Pyrene	129-00-0	<0.000152	0.000212	0.000152	mg/L	03.25.2020 15:43	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
2-Fluorobiphenyl	105	54 - 146	%		
Nitrobenzene-d5	98	46 - 151	%		
Terphenyl-D14	85	51 - 139	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM

Moore to Jal 2

Sample Id: **MW23**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-017

Date Collected: 03.19.2020 12:05

Date Received: 03.23.2020 07:55

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: MIT

% Moist:

Tech: MIT

Seq Number: 3120995

Date Prep: 03.24.2020 12:57

Subcontractor: SUB: T104704219-19-21

Prep seq: 7699779

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000480	0.00100	0.000480	mg/L	03.26.2020 01:35	U	1
Toluene	108-88-3	<0.000512	0.00100	0.000512	mg/L	03.26.2020 01:35	U	1
Ethylbenzene	100-41-4	<0.000616	0.00100	0.000616	mg/L	03.26.2020 01:35	U	1
m_p-Xylenes	179601-23-1	<0.000454	0.00200	0.000454	mg/L	03.26.2020 01:35	U	1
o-Xylene	95-47-6	<0.000270	0.00100	0.000270	mg/L	03.26.2020 01:35	U	1
Xylenes, Total	1330-20-7	<0.000270		0.000270	mg/L	03.26.2020 01:35	U	
Total BTEX		<0.000270		0.000270	mg/L	03.26.2020 01:35	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	101	66 - 120	%		
4-Bromofluorobenzene	110	67 - 120	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM

Moore to Jal 2

Sample Id: MW22

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-018

Date Collected: 03.19.2020 11:30

Date Received: 03.23.2020 07:55

Analytical Method: PAHs by SW846 8270D SIM

Prep Method: SW3511

Analyst: DNE

% Moist:

Tech: DNE

Seq Number: 3120999

Date Prep: 03.25.2020 08:57

Subcontractor: SUB: T104704215-19-30

Prep seq: 7699642

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
1-Methylnaphthalene	90-12-0	<0.0000881	0.000201	0.0000881	mg/L	03.25.2020 16:01	U	1
2-Methylnaphthalene	91-57-6	<0.000101	0.000201	0.000101	mg/L	03.25.2020 16:01	U	1
Acenaphthene	83-32-9	<0.000111	0.000201	0.000111	mg/L	03.25.2020 16:01	U	1
Acenaphthylene	208-96-8	<0.0000933	0.000201	0.0000933	mg/L	03.25.2020 16:01	U	1
Anthracene	120-12-7	<0.0000960	0.000201	0.0000960	mg/L	03.25.2020 16:01	U	1
Benzo(a)anthracene	56-55-3	<0.000149	0.000201	0.000149	mg/L	03.25.2020 16:01	U	1
Benzo(a)pyrene	50-32-8	<0.0000632	0.000201	0.0000632	mg/L	03.25.2020 16:01	U	1
Benzo(b)fluoranthene	205-99-2	<0.0000788	0.000201	0.0000788	mg/L	03.25.2020 16:01	U	1
Benzo(g,h,i)perylene	191-24-2	<0.000125	0.000201	0.000125	mg/L	03.25.2020 16:01	U	1
Benzo(k)fluoranthene	207-08-9	<0.000129	0.000201	0.000129	mg/L	03.25.2020 16:01	U	1
Chrysene	218-01-9	<0.000173	0.000201	0.000173	mg/L	03.25.2020 16:01	U	1
Dibenz(a,h)anthracene	53-70-3	<0.0000842	0.000201	0.0000842	mg/L	03.25.2020 16:01	U	1
Fluoranthene	206-44-0	<0.000174	0.000201	0.000174	mg/L	03.25.2020 16:01	U	1
Fluorene	86-73-7	<0.000112	0.000201	0.000112	mg/L	03.25.2020 16:01	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	<0.000101	0.000201	0.000101	mg/L	03.25.2020 16:01	U	1
Naphthalene	91-20-3	<0.000108	0.000403	0.000108	mg/L	03.25.2020 16:01	U	1
Phenanthrene	85-01-8	<0.0000942	0.000201	0.0000942	mg/L	03.25.2020 16:01	U	1
Pyrene	129-00-0	<0.000144	0.000201	0.000144	mg/L	03.25.2020 16:01	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
2-Fluorobiphenyl	117	54 - 146	%		
Nitrobenzene-d5	109	46 - 151	%		
Terphenyl-D14	66	51 - 139	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM

Moore to Jal 2

Sample Id: **MW22**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 656474-018

Date Collected: 03.19.2020 11:30

Date Received: 03.23.2020 07:55

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: MIT

% Moist:

Tech: MIT

Seq Number: 3120995

Date Prep: 03.24.2020 12:57

Subcontractor: SUB: T104704219-19-21

Prep seq: 7699779

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000480	0.00100	0.000480	mg/L	03.26.2020 02:02	U	1
Toluene	108-88-3	<0.000512	0.00100	0.000512	mg/L	03.26.2020 02:02	U	1
Ethylbenzene	100-41-4	<0.000616	0.00100	0.000616	mg/L	03.26.2020 02:02	U	1
m_p-Xylenes	179601-23-1	<0.000454	0.00200	0.000454	mg/L	03.26.2020 02:02	U	1
o-Xylene	95-47-6	<0.000270	0.00100	0.000270	mg/L	03.26.2020 02:02	U	1
Xylenes, Total	1330-20-7	<0.000270		0.000270	mg/L	03.26.2020 02:02	U	
Total BTEX		<0.000270		0.000270	mg/L	03.26.2020 02:02	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	100	66 - 120	%		
4-Bromofluorobenzene	109	67 - 120	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM

Moore to Jal 2

Sample Id: 7699642-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 7699642-1-BLK

Date Collected:

Date Received:

Analytical Method: PAHs by SW846 8270D SIM

Prep Method: SW3511

Analyst: DNE

% Moist:

Tech: DNE

Seq Number: 3120999

Date Prep: 03.25.2020 08:30

Subcontractor: SUB: T104704215-19-30

Prep seq: 7699642

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
1-Methylnaphthalene	90-12-0	<0.0000795	0.000182	0.0000795	mg/L	03.25.2020 11:05	U	1
2-Methylnaphthalene	91-57-6	<0.0000913	0.000182	0.0000913	mg/L	03.25.2020 11:05	U	1
Acenaphthene	83-32-9	<0.000100	0.000182	0.0001000	mg/L	03.25.2020 11:05	U	1
Acenaphthylene	208-96-8	<0.0000842	0.000182	0.0000842	mg/L	03.25.2020 11:05	U	1
Anthracene	120-12-7	<0.0000866	0.000182	0.0000866	mg/L	03.25.2020 11:05	U	1
Benzo(a)anthracene	56-55-3	<0.000134	0.000182	0.000134	mg/L	03.25.2020 11:05	U	1
Benzo(a)pyrene	50-32-8	<0.0000571	0.000182	0.0000571	mg/L	03.25.2020 11:05	U	1
Benzo(b)fluoranthene	205-99-2	<0.0000711	0.000182	0.0000711	mg/L	03.25.2020 11:05	U	1
Benzo(g,h,i)perylene	191-24-2	<0.000113	0.000182	0.000113	mg/L	03.25.2020 11:05	U	1
Benzo(k)fluoranthene	207-08-9	<0.000116	0.000182	0.000116	mg/L	03.25.2020 11:05	U	1
Chrysene	218-01-9	<0.000156	0.000182	0.000156	mg/L	03.25.2020 11:05	U	1
Dibenz(a,h)anthracene	53-70-3	<0.0000760	0.000182	0.0000760	mg/L	03.25.2020 11:05	U	1
Fluoranthene	206-44-0	<0.000157	0.000182	0.000157	mg/L	03.25.2020 11:05	U	1
Fluorene	86-73-7	<0.000101	0.000182	0.000101	mg/L	03.25.2020 11:05	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	<0.0000913	0.000182	0.0000913	mg/L	03.25.2020 11:05	U	1
Naphthalene	91-20-3	<0.0000972	0.000364	0.0000972	mg/L	03.25.2020 11:05	U	1
Phenanthrene	85-01-8	<0.0000850	0.000182	0.0000850	mg/L	03.25.2020 11:05	U	1
Pyrene	129-00-0	<0.000130	0.000182	0.000130	mg/L	03.25.2020 11:05	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
2-Fluorobiphenyl	109	54 - 146	%		
Nitrobenzene-d5	98	46 - 151	%		
Terphenyl-D14	113	51 - 139	%		



Certificate of Analytical Results

656474

Talon LPE-Artesia, Artesia, NM

Moore to Jal 2

Sample Id: **7699779-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 7699779-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: MIT

% Moist:

Tech: MIT

Seq Number: 3120995

Date Prep: 03.24.2020 12:57

Subcontractor: SUB: T104704219-19-21

Prep seq: 7699779

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000480	0.00100	0.000480	mg/L	03.25.2020 14:25	U	1
Toluene	108-88-3	<0.000512	0.00100	0.000512	mg/L	03.25.2020 14:25	U	1
Ethylbenzene	100-41-4	<0.000616	0.00100	0.000616	mg/L	03.25.2020 14:25	U	1
m_p-Xylenes	179601-23-1	<0.000454	0.00200	0.000454	mg/L	03.25.2020 14:25	U	1
o-Xylene	95-47-6	<0.000270	0.00100	0.000270	mg/L	03.25.2020 14:25	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
a,a,a-Trifluorotoluene	105	66 - 120	%		
4-Bromofluorobenzene	109	67 - 120	%		



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Form 2 - Surrogate Recoveries

Project Name: Moore to Jal 2

Work Orders : 656474

Project ID: 700376 045 04

Lab Batch #: 3120995

Sample: 7699779-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03.25.2020 12:37

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
a,a,a-Trifluorotoluene	0.0928	0.100	93	66-120	
4-Bromofluorobenzene	0.101	0.100	101	67-120	

Lab Batch #: 3120995

Sample: 7699779-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03.25.2020 13:04

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
a,a,a-Trifluorotoluene	0.0907	0.100	91	66-120	
4-Bromofluorobenzene	0.101	0.100	101	67-120	

Lab Batch #: 3120995

Sample: 7699779-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03.25.2020 14:25

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
a,a,a-Trifluorotoluene	0.105	0.100	105	66-120	
4-Bromofluorobenzene	0.109	0.100	109	67-120	

Lab Batch #: 3120995

Sample: 656511-002 S / MS

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 03.25.2020 15:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
a,a,a-Trifluorotoluene	0.0892	0.100	89	66-120	
4-Bromofluorobenzene	0.0986	0.100	99	67-120	

Lab Batch #: 3120995

Sample: 656511-002 SD / MSD

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 03.25.2020 15:45

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
a,a,a-Trifluorotoluene	0.0863	0.100	86	66-120	
4-Bromofluorobenzene	0.100	0.100	100	67-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Moore to Jal 2

Work Orders : 656474

Project ID: 700376 045 04

Lab Batch #: 3120999

Sample: 7699642-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03.25.2020 11:05

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.546	0.500	109	54-146	
Nitrobenzene-d5	0.489	0.500	98	46-151	
Terphenyl-D14	0.564	0.500	113	51-139	

Lab Batch #: 3120999

Sample: 7699642-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03.25.2020 11:22

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.567	0.500	113	54-146	
Nitrobenzene-d5	0.521	0.500	104	46-151	
Terphenyl-D14	0.569	0.500	114	51-139	

Lab Batch #: 3120999

Sample: 7699642-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03.25.2020 11:39

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.548	0.500	110	54-146	
Nitrobenzene-d5	0.511	0.500	102	46-151	
Terphenyl-D14	0.576	0.500	115	51-139	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries

Project Name: Moore to Jal 2

Work Order #: 656474

Project ID: 700376 045 04

Analyst: MIT

Date Prepared: 03.24.2020

Date Analyzed: 03.25.2020

Lab Batch ID: 3120995

Sample: 7699779-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000480	0.100	0.103	103	0.100	0.102	102	1	74-120	20	
Toluene	<0.000512	0.100	0.110	110	0.100	0.110	110	0	74-120	20	
Ethylbenzene	<0.000616	0.100	0.110	110	0.100	0.109	109	1	74-120	20	
m_p-Xylenes	<0.000454	0.200	0.219	110	0.200	0.215	108	2	73-120	25	
o-Xylene	<0.000270	0.100	0.111	111	0.100	0.108	108	3	73-120	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries

Project Name: Moore to Jal 2

Work Order #: 656474

Project ID: 700376 045 04

Analyst: DNE

Date Prepared: 03.25.2020

Date Analyzed: 03.25.2020

Lab Batch ID: 3120999

Sample: 7699642-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

PAHs by SW846 8270D SIM	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
1-Methylnaphthalene	<0.0000795	0.0182	0.0194	107	0.0182	0.0190	104	2	70-126	30	
2-Methylnaphthalene	<0.0000913	0.0182	0.0196	108	0.0182	0.0192	105	2	74-121	30	
Acenaphthene	<0.000100	0.0182	0.0193	106	0.0182	0.0189	104	2	75-127	30	
Acenaphthylene	<0.0000842	0.0182	0.0185	102	0.0182	0.0182	100	2	78-133	30	
Anthracene	<0.0000866	0.0182	0.0192	105	0.0182	0.0189	104	2	73-145	30	
Benzo(a)anthracene	<0.000134	0.0182	0.0176	97	0.0182	0.0177	97	1	77-131	30	
Benzo(a)pyrene	<0.0000571	0.0182	0.0175	96	0.0182	0.0181	99	3	56-163	30	
Benzo(b)fluoranthene	<0.0000711	0.0182	0.0177	97	0.0182	0.0181	99	2	74-138	30	
Benzo(g,h,i)perylene	<0.000113	0.0182	0.0163	90	0.0182	0.0170	93	4	77-127	30	
Benzo(k)fluoranthene	<0.000116	0.0182	0.0194	107	0.0182	0.0203	112	5	67-142	30	
Chrysene	<0.000156	0.0182	0.0190	104	0.0182	0.0193	106	2	66-126	30	
Dibenz(a,h)anthracene	<0.0000760	0.0182	0.0169	93	0.0182	0.0177	97	5	71-142	30	
Fluoranthene	<0.000157	0.0182	0.0195	107	0.0182	0.0193	106	1	78-138	30	
Fluorene	<0.000101	0.0182	0.0200	110	0.0182	0.0196	108	2	79-128	30	
Indeno(1,2,3-c,d)Pyrene	<0.0000913	0.0182	0.0168	92	0.0182	0.0177	97	5	76-140	30	
Naphthalene	<0.0000972	0.0182	0.0191	105	0.0182	0.0187	103	2	72-122	30	
Phenanthrene	<0.0000850	0.0182	0.0194	107	0.0182	0.0190	104	2	76-129	30	
Pyrene	<0.000130	0.0182	0.0197	108	0.0182	0.0192	105	3	74-138	30	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: Moore to Jal 2

Work Order #: 656474

Project ID: 700376 045 04

Lab Batch ID: 3120995

QC- Sample ID: 656511-002 S

Batch #: 1 Matrix: Ground Water

Date Analyzed: 03.25.2020

Date Prepared: 03.24.2020

Analyst: MIT

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000480	0.100	0.105	105	0.100	0.105	105	0	15-147	25	
Toluene	0.00130	0.100	0.106	105	0.100	0.113	112	6	11-147	25	
Ethylbenzene	0.00110	0.100	0.108	107	0.100	0.113	112	5	10-149	25	
m_p-Xylenes	<0.000454	0.200	0.210	105	0.200	0.222	111	6	62-124	25	
o-Xylene	<0.000270	0.100	0.106	106	0.100	0.111	111	5	62-124	25	

Matrix Spike Percent Recovery $[D] = 100 * (C - A) / B$
 Relative Percent Difference $RPD = 200 * |(C - F) / (C + F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Chain of Custody

Work Order No: 656474

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

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Project Manager:	David Adkins	Bill to: (if different)	PLANS ALL AMERICAN
Company Name:	Talon	Company Name:	PAPELINE
Address:	408 W. Texas Ave.	Address:	ATTN: CAMILLE BRYANT
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS # 2002-10273
Phone:	575-616-4022 or 575-746-8905	Email:	dadkins@talonlpe.com

Project Name:	MOORE TO JAL 2	Turn Around	
Project Number:	710376 045 04	Routine	☒
P.O. Number:	SRS # 2002-10273	Rush:	
Sampler's Name:	Bill Riggs	Due Date:	

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):		0.5			Thermometer ID	TNM007	
Received Intact:	Yes	No			Correction Factor:	-0.2	
Cooler Custody Seals:	Yes	No			Total Containers:	68	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
MW20	GW	3-21-20	10:20 AM	
MW21		3-21-20	11:15 AM	
MW19		3-21-20	11:45 AM	
MW18		3-21-20	12:20 PM	
MW17		3-21-20	1 PM	
MW10		3-20-20	1:45 PM	
MW5		3-21-20	8:20 AM	
MW9		3-20-20	1:15 PM	
MW7		3-20-20	9:15 AM	
MW3A	GW	3-20-20	12:45 PM	

Total	200.7 / 6010	200.8 / 6020:	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 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 1631 / 245.1 / 7470 / 7471 : Hg			

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Bill Riggs		3/23/20 07:55			
3					
5					

Revised Date 05/14/18 Rev. 2018.1



Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575-392-7550) Phoenix, AZ (480-365-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

Work Order No: 056474

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Page 2 of 2

Project Manager:	David Adkins	Bill to: (if different)	PLANS All American
Company Name:	Talon	Company Name:	PIPELINE
Address:	408 W. Texas Ave.	Address:	AT&T CAMILLE BRYANT
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS # 2002-10273
Phone:	575-616-4022 or 575-746-8905	Email:	dadkins@talonpe.com

Project Name:	MORE TO JAL 2	Turn Around	
Project Number:	700376 045 04	Routine	☒
P.O. Number:	SRS # 2002-10273	Rush:	
Sampler's Name:	Bill Riggs	Due Date:	

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):		Thermometer ID					
Received Intact:	Yes	No					
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:			
Sample Custody Seals:	Yes	No	N/A	Total Containers:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTX	PAH
MW8	GW	3-20-2020	11:45 AM		5	X	X
MW13		3-20-2020	11 AM		3	X	
MW4A		3-20-2020	10:20 AM		3	X	
MW12		3-19-2020	2:20 PM		3	X	
MW16		3-19-2020	3:05 PM		5	X	X
MW11		3-19-2020	1:30 PM		3	X	
MW23		3-19-2020	12:05 PM		5	X	X
MW22	GW	3-19-2020	1:30 AM		5	X	X

Total 200.7 / 6010	200.8 / 6020:	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 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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Bill Riggs		3/23/20 07:55			
3					
5					

Revised Date 05/14/18 Rev. 2018

Inter-Office Shipment

IOS Number : **60746**

Date/Time: 03.23.2020

Created by: Elizabeth McClellan

Please send report to: Jessica Kramer

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: **Lubbock**

Air Bill No.:

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
656474-001	W	MW20	03.21.2020 10:20	SW8021B	BTEX by EPA 8021	03.27.2020	04.04.2020	JKR	BR4FBZ BZ BZME EBZ	
656474-002	W	MW21	03.21.2020 11:15	SW8021B	BTEX by EPA 8021	03.27.2020	04.04.2020	JKR	BR4FBZ BZ BZME EBZ	
656474-003	W	MW19	03.21.2020 11:45	SW8021B	BTEX by EPA 8021	03.27.2020	04.04.2020	JKR	BR4FBZ BZ BZME EBZ	
656474-004	W	MW18	03.21.2020 12:20	SW8021B	BTEX by EPA 8021	03.27.2020	04.04.2020	JKR	BR4FBZ BZ BZME EBZ	
656474-005	W	MW17	03.21.2020 13:00	SW8021B	BTEX by EPA 8021	03.27.2020	04.04.2020	JKR	BR4FBZ BZ BZME EBZ	
656474-006	W	MW10	03.20.2020 13:45	SW8021B	BTEX by EPA 8021	03.27.2020	04.03.2020	JKR	BR4FBZ BZ BZME EBZ	
656474-007	W	MW5	03.21.2020 08:20	SW8021B	BTEX by EPA 8021	03.27.2020	04.04.2020	JKR	BR4FBZ BZ BZME EBZ	
656474-008	W	MW9	03.20.2020 13:15	SW8021B	BTEX by EPA 8021	03.27.2020	04.03.2020	JKR	BR4FBZ BZ BZME EBZ	
656474-009	W	MW7	03.20.2020 09:15	SW8021B	BTEX by EPA 8021	03.27.2020	04.03.2020	JKR	BR4FBZ BZ BZME EBZ	
656474-010	W	MW3A	03.20.2020 12:45	SW8021B	BTEX by EPA 8021	03.27.2020	04.03.2020	JKR	BR4FBZ BZ BZME EBZ	
656474-011	W	MW8	03.20.2020 11:45	SW8021B	BTEX by EPA 8021	03.27.2020	04.03.2020	JKR	BR4FBZ BZ BZME EBZ	
656474-012	W	MW13	03.20.2020 11:00	SW8021B	BTEX by EPA 8021	03.27.2020	04.03.2020	JKR	BR4FBZ BZ BZME EBZ	
656474-013	W	MW4A	03.20.2020 10:20	SW8021B	BTEX by EPA 8021	03.27.2020	04.03.2020	JKR	BR4FBZ BZ BZME EBZ	
656474-014	W	MW12	03.19.2020 14:20	SW8021B	BTEX by EPA 8021	03.27.2020	04.02.2020	JKR	BR4FBZ BZ BZME EBZ	
656474-015	W	MW6	03.19.2020 15:20	SW8021B	BTEX by EPA 8021	03.27.2020	04.02.2020	JKR	BR4FBZ BZ BZME EBZ	
656474-016	W	MW11	03.19.2020 13:30	SW8021B	BTEX by EPA 8021	03.27.2020	04.02.2020	JKR	BR4FBZ BZ BZME EBZ	
656474-017	W	MW23	03.19.2020 12:05	SW8021B	BTEX by EPA 8021	03.27.2020	04.02.2020	JKR	BR4FBZ BZ BZME EBZ	
656474-018	W	MW22	03.19.2020 11:30	SW8021B	BTEX by EPA 8021	03.27.2020	04.02.2020	JKR	BR4FBZ BZ BZME EBZ	

Inter Office Shipment or Sample Comments:

Relinquished By:



Elizabeth McClellan

Date Relinquished: 03.23.2020

Received By:



Brenda Ward

Date Received: 03.24.2020

Cooler Temperature: 2.3

Inter-Office Shipment

IOS Number : **60747**

Date/Time: 03.23.2020

Created by: Elizabeth McClellan

Please send report to: Jessica Kramer

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: **Houston**

Air Bill No.: 770086027660

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
656474-004	W	MW18	03.21.2020 12:20	SW8270D_SIM_PAH	PAHs by SW846 8270D SIM	03.27.2020	03.28.2020 12:20	JKR	ACNP ACNPY ANTH Bz	
656474-008	W	MW9	03.20.2020 13:15	SW8270D_SIM_PAH	PAHs by SW846 8270D SIM	03.27.2020	03.27.2020 13:15	JKR	ACNP ACNPY ANTH Bz	
656474-009	W	MW7	03.20.2020 09:15	SW8270D_SIM_PAH	PAHs by SW846 8270D SIM	03.27.2020	03.27.2020 09:15	JKR	ACNP ACNPY ANTH Bz	
656474-011	W	MW8	03.20.2020 11:45	SW8270D_SIM_PAH	PAHs by SW846 8270D SIM	03.27.2020	03.27.2020 11:45	JKR	ACNP ACNPY ANTH Bz	
656474-015	W	MW6	03.19.2020 15:20	SW8270D_SIM_PAH	PAHs by SW846 8270D SIM	03.27.2020	03.26.2020 15:20	JKR	ACNP ACNPY ANTH Bz	
656474-017	W	MW23	03.19.2020 12:05	SW8270D_SIM_PAH	PAHs by SW846 8270D SIM	03.27.2020	03.26.2020 12:05	JKR	ACNP ACNPY ANTH Bz	
656474-018	W	MW22	03.19.2020 11:30	SW8270D_SIM_PAH	PAHs by SW846 8270D SIM	03.27.2020	03.26.2020 11:30	JKR	ACNP ACNPY ANTH Bz	

Inter Office Shipment or Sample Comments:

Relinquished By:



Elizabeth McClellan

Date Relinquished: 03.23.2020

Received By:



Jhyrom Edralin

Date Received: 03.24.2020

Cooler Temperature: 1.5



XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Lubbock

IOS #: 60746

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-4

Sent By: Elizabeth McClellan

Date Sent: 03.23.2020 11.19 AM

Received By: Brenda Ward

Date Received: 03.24.2020 05.39 PM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	2.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 *Custody Seals Signed and dated for Containers/coolers	Yes
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

Corrective Action Taken:

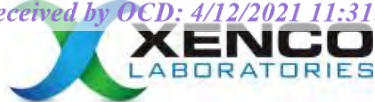
Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Brenda Ward

Date: 03.24.2020



XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 60747

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : hou-068

Sent By: Elizabeth McClellan

Date Sent: 03.23.2020 11.19 AM

Received By: Jhyrom Edralin

Date Received: 03.24.2020 09.22 AM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 *Custody Seals Signed and dated for Containers/coolers	N/A
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Jhyrom Edralin

Date: 03.24.2020



Analytical Report 665005

for

Talon LPE-Artesia

Project Manager: David Adkins

Plains MTJ2

700376 045

06.26.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-34), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.26.2020

Project Manager: **David Adkins**

Talon LPE-Artesia

408 West Texas St.

Artesia, NM 88210

Reference: XENCO Report No(s): **665005**

Plains MTJ2

Project Address: Lovington, New Mexico

David Adkins:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 665005. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 665005 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'. The signature is written in a cursive, flowing style.

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

**Sample Cross Reference 665005****Talon LPE-Artesia, Artesia, NM**

Plains MTJ2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW 8	W	06.17.2020 11:10		665005-001
MW 13	W	06.17.2020 11:50		665005-002
MW 4A	W	06.17.2020 14:10		665005-003
MW 6	W	06.18.2020 09:15		665005-004
MW 12	W	06.18.2020 11:15		665005-005
MW11	W	06.18.2020 12:15		665005-006
MW 10	W	06.18.2020 13:15		665005-007
MW 23	W	06.17.2020 09:55		665005-008
MW22	W	06.17.2020 10:20		665005-009
MW 7	W	06.18.2020 15:00		665005-010
MW 9	W	06.18.2020 15:45		665005-011
MW 5	W	06.18.2020 14:15		665005-012
MW 20	W	06.16.2020 12:30		665005-013
MW 19	W	06.16.2020 13:30		665005-014
MW 18	W	06.19.2020 12:30		665005-015
MW 17	W	06.19.2020 10:20		665005-016
MW 3A	W	06.17.2020 15:00		665005-017

**CASE NARRATIVE****Client Name: Talon LPE-Artesia****Project Name: Plains MTJ2**Project ID: 700376 045
Work Order Number(s): 665005Report Date: 06.26.2020
Date Received: 06.19.2020

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results

665005

Talon LPE-Artesia, Artesia, NM
Plains MTJ2

Sample Id: **MW 8**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 665005-001

Date Collected: 06.17.2020 11:10

Date Received: 06.19.2020 16:00

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3129915

Date Prep: 06.24.2020 08:00

Subcontractor: SUB: T104704400-19-19

Prep seq: 7706120

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.000660	0.00200	0.000408	mg/L	06.25.2020 02:36	J	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	06.25.2020 02:36	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	06.25.2020 02:36	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	06.25.2020 02:36	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	06.25.2020 02:36	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	06.25.2020 02:36	U	
Total BTEX		0.000660		0.000367	mg/L	06.25.2020 02:36	J	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	80	70 - 130	%		
4-Bromofluorobenzene	119	70 - 130	%		

Sample Id: **MW 13**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 665005-002

Date Collected: 06.17.2020 11:50

Date Received: 06.19.2020 16:00

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3129915

Date Prep: 06.24.2020 08:00

Subcontractor: SUB: T104704400-19-19

Prep seq: 7706120

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00119	0.00200	0.000408	mg/L	06.25.2020 02:56	J	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	06.25.2020 02:56	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	06.25.2020 02:56	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	06.25.2020 02:56	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	06.25.2020 02:56	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	06.25.2020 02:56	U	
Total BTEX		0.00119		0.000367	mg/L	06.25.2020 02:56	J	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	79	70 - 130	%		
4-Bromofluorobenzene	119	70 - 130	%		



Certificate of Analytical Results

665005

Talon LPE-Artesia, Artesia, NM

Plains MTJ2

Sample Id: **MW 4A**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 665005-003

Date Collected: 06.17.2020 14:10

Date Received: 06.19.2020 16:00

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3129915

Date Prep: 06.24.2020 08:00

Subcontractor: SUB: T104704400-19-19

Prep seq: 7706120

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	06.25.2020 03:17	U	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	06.25.2020 03:17	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	06.25.2020 03:17	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	06.25.2020 03:17	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	06.25.2020 03:17	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	06.25.2020 03:17	U	
Total BTEX		<0.000367		0.000367	mg/L	06.25.2020 03:17	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	76	70 - 130	%		
4-Bromofluorobenzene	115	70 - 130	%		

Sample Id: **MW 6**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 665005-004

Date Collected: 06.18.2020 09:15

Date Received: 06.19.2020 16:00

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3129915

Date Prep: 06.24.2020 08:00

Subcontractor: SUB: T104704400-19-19

Prep seq: 7706120

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00781	0.00200	0.000408	mg/L	06.25.2020 03:37		1
Toluene	108-88-3	0.00376	0.00200	0.000367	mg/L	06.25.2020 03:37		1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	06.25.2020 03:37	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	06.25.2020 03:37	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	06.25.2020 03:37	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	06.25.2020 03:37	U	
Total BTEX		0.0116		0.000367	mg/L	06.25.2020 03:37		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	81	70 - 130	%		
4-Bromofluorobenzene	122	70 - 130	%		



Certificate of Analytical Results

665005

Talon LPE-Artesia, Artesia, NM

Plains MTJ2

Sample Id: **MW 12**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 665005-005

Date Collected: 06.18.2020 11:15

Date Received: 06.19.2020 16:00

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3129915

Date Prep: 06.24.2020 08:00

Subcontractor: SUB: T104704400-19-19

Prep seq: 7706120

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00130	0.00200	0.000408	mg/L	06.25.2020 03:57	J	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	06.25.2020 03:57	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	06.25.2020 03:57	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	06.25.2020 03:57	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	06.25.2020 03:57	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	06.25.2020 03:57	U	
Total BTEX		0.00130		0.000367	mg/L	06.25.2020 03:57	J	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	81	70 - 130	%		
4-Bromofluorobenzene	128	70 - 130	%		

Sample Id: **MW11**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 665005-006

Date Collected: 06.18.2020 12:15

Date Received: 06.19.2020 16:00

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3129915

Date Prep: 06.24.2020 08:00

Subcontractor: SUB: T104704400-19-19

Prep seq: 7706120

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	06.25.2020 04:17	U	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	06.25.2020 04:17	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	06.25.2020 04:17	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	06.25.2020 04:17	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	06.25.2020 04:17	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	06.25.2020 04:17	U	
Total BTEX		<0.000367		0.000367	mg/L	06.25.2020 04:17	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	82	70 - 130	%		
4-Bromofluorobenzene	98	70 - 130	%		



Certificate of Analytical Results

665005

Talon LPE-Artesia, Artesia, NM
Plains MTJ2

Sample Id: **MW 10**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 665005-007

Date Collected: 06.18.2020 13:15

Date Received: 06.19.2020 16:00

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3129915

Date Prep: 06.24.2020 08:00

Subcontractor: SUB: T104704400-19-19

Prep seq: 7706120

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	06.25.2020 04:37	U	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	06.25.2020 04:37	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	06.25.2020 04:37	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	06.25.2020 04:37	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	06.25.2020 04:37	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	06.25.2020 04:37	U	
Total BTEX		<0.000367		0.000367	mg/L	06.25.2020 04:37	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	79	70 - 130	%		
4-Bromofluorobenzene	128	70 - 130	%		

Sample Id: **MW 23**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 665005-008

Date Collected: 06.17.2020 09:55

Date Received: 06.19.2020 16:00

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3129915

Date Prep: 06.24.2020 08:00

Subcontractor: SUB: T104704400-19-19

Prep seq: 7706120

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00138	0.00200	0.000408	mg/L	06.25.2020 04:58	J	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	06.25.2020 04:58	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	06.25.2020 04:58	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	06.25.2020 04:58	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	06.25.2020 04:58	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	06.25.2020 04:58	U	
Total BTEX		0.00138		0.000367	mg/L	06.25.2020 04:58	J	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	81	70 - 130	%		
4-Bromofluorobenzene	105	70 - 130	%		



Certificate of Analytical Results

665005

Talon LPE-Artesia, Artesia, NM
Plains MTJ2

Sample Id: **MW22**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 665005-009

Date Collected: 06.17.2020 10:20

Date Received: 06.19.2020 16:00

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3129915

Date Prep: 06.24.2020 08:00

Subcontractor: SUB: T104704400-19-19

Prep seq: 7706120

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00187	0.00200	0.000408	mg/L	06.25.2020 06:17	J	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	06.25.2020 06:17	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	06.25.2020 06:17	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	06.25.2020 06:17	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	06.25.2020 06:17	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	06.25.2020 06:17	U	
Total BTEX		0.00187		0.000367	mg/L	06.25.2020 06:17	J	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	85	70 - 130	%		
4-Bromofluorobenzene	128	70 - 130	%		

Sample Id: **MW 7**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 665005-010

Date Collected: 06.18.2020 15:00

Date Received: 06.19.2020 16:00

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3129915

Date Prep: 06.24.2020 08:00

Subcontractor: SUB: T104704400-19-19

Prep seq: 7706120

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.0973	0.00200	0.000408	mg/L	06.25.2020 06:37		1
Toluene	108-88-3	0.00183	0.00200	0.000367	mg/L	06.25.2020 06:37	J	1
Ethylbenzene	100-41-4	0.0288	0.00200	0.000657	mg/L	06.25.2020 06:37		1
m_p-Xylenes	179601-23-1	0.0305	0.00400	0.000630	mg/L	06.25.2020 06:37		1
o-Xylene	95-47-6	0.0191	0.00200	0.000642	mg/L	06.25.2020 06:37		1
Xylenes, Total	1330-20-7	0.0496		0.000630	mg/L	06.25.2020 06:37		
Total BTEX		0.178		0.000367	mg/L	06.25.2020 06:37		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	86	70 - 130	%		
4-Bromofluorobenzene	120	70 - 130	%		



Certificate of Analytical Results

665005

Talon LPE-Artesia, Artesia, NM
Plains MTJ2

Sample Id: **MW 9**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 665005-011

Date Collected: 06.18.2020 15:45

Date Received: 06.19.2020 16:00

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3129915

Date Prep: 06.24.2020 08:00

Subcontractor: SUB: T104704400-19-19

Prep seq: 7706120

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.158	0.00200	0.000408	mg/L	06.25.2020 06:58		1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	06.25.2020 06:58	U	1
Ethylbenzene	100-41-4	0.0493	0.00200	0.000657	mg/L	06.25.2020 06:58		1
m_p-Xylenes	179601-23-1	0.0541	0.00400	0.000630	mg/L	06.25.2020 06:58		1
o-Xylene	95-47-6	0.0315	0.00200	0.000642	mg/L	06.25.2020 06:58		1
Xylenes, Total	1330-20-7	0.0856		0.000630	mg/L	06.25.2020 06:58		
Total BTEX		0.293		0.000367	mg/L	06.25.2020 06:58		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	70 - 130	%		
4-Bromofluorobenzene	123	70 - 130	%		

Sample Id: **MW 5**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 665005-012

Date Collected: 06.18.2020 14:15

Date Received: 06.19.2020 16:00

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3129915

Date Prep: 06.24.2020 08:00

Subcontractor: SUB: T104704400-19-19

Prep seq: 7706120

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00315	0.00200	0.000408	mg/L	06.25.2020 07:18		1
Toluene	108-88-3	0.00206	0.00200	0.000367	mg/L	06.25.2020 07:18		1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	06.25.2020 07:18	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	06.25.2020 07:18	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	06.25.2020 07:18	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	06.25.2020 07:18	U	
Total BTEX		0.00521		0.000367	mg/L	06.25.2020 07:18		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	83	70 - 130	%		
4-Bromofluorobenzene	128	70 - 130	%		



Certificate of Analytical Results

665005

Talon LPE-Artesia, Artesia, NM

Plains MTJ2

Sample Id: **MW 20**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 665005-013

Date Collected: 06.16.2020 12:30

Date Received: 06.19.2020 16:00

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3129915

Date Prep: 06.24.2020 08:00

Subcontractor: SUB: T104704400-19-19

Prep seq: 7706120

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00153	0.00200	0.000408	mg/L	06.25.2020 07:38	J	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	06.25.2020 07:38	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	06.25.2020 07:38	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	06.25.2020 07:38	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	06.25.2020 07:38	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	06.25.2020 07:38	U	
Total BTEX		0.00153		0.000367	mg/L	06.25.2020 07:38	J	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	76	70 - 130	%		
4-Bromofluorobenzene	124	70 - 130	%		

Sample Id: **MW 19**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 665005-014

Date Collected: 06.16.2020 13:30

Date Received: 06.19.2020 16:00

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3129915

Date Prep: 06.24.2020 08:00

Subcontractor: SUB: T104704400-19-19

Prep seq: 7706120

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00127	0.00200	0.000408	mg/L	06.25.2020 07:58	J	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	06.25.2020 07:58	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	06.25.2020 07:58	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	06.25.2020 07:58	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	06.25.2020 07:58	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	06.25.2020 07:58	U	
Total BTEX		0.00127		0.000367	mg/L	06.25.2020 07:58	J	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	76	70 - 130	%		
4-Bromofluorobenzene	122	70 - 130	%		



Certificate of Analytical Results

665005

Talon LPE-Artesia, Artesia, NM

Plains MTJ2

Sample Id: **MW 18**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 665005-015

Date Collected: 06.19.2020 12:30

Date Received: 06.19.2020 16:00

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3129915

Date Prep: 06.24.2020 08:00

Subcontractor: SUB: T104704400-19-19

Prep seq: 7706120

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00136	0.00200	0.000408	mg/L	06.25.2020 08:18	J	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	06.25.2020 08:18	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	06.25.2020 08:18	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	06.25.2020 08:18	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	06.25.2020 08:18	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	06.25.2020 08:18	U	
Total BTEX		0.00136		0.000367	mg/L	06.25.2020 08:18	J	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	84	70 - 130	%		
4-Bromofluorobenzene	107	70 - 130	%		

Sample Id: **MW 17**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 665005-016

Date Collected: 06.19.2020 10:20

Date Received: 06.19.2020 16:00

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3129915

Date Prep: 06.24.2020 08:00

Subcontractor: SUB: T104704400-19-19

Prep seq: 7706120

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00284	0.00200	0.000408	mg/L	06.25.2020 08:39		1
Toluene	108-88-3	0.000500	0.00200	0.000367	mg/L	06.25.2020 08:39	J	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	06.25.2020 08:39	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	06.25.2020 08:39	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	06.25.2020 08:39	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	06.25.2020 08:39	U	
Total BTEX		0.00334		0.000367	mg/L	06.25.2020 08:39		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	75	70 - 130	%		
4-Bromofluorobenzene	119	70 - 130	%		



Certificate of Analytical Results

665005

Talon LPE-Artesia, Artesia, NM
Plains MTJ2

Sample Id: **MW 3A**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 665005-017

Date Collected: 06.17.2020 15:00

Date Received: 06.19.2020 16:00

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3129915

Date Prep: 06.24.2020 08:00

Subcontractor: SUB: T104704400-19-19

Prep seq: 7706120

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	06.25.2020 08:59	U	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	06.25.2020 08:59	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	06.25.2020 08:59	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	06.25.2020 08:59	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	06.25.2020 08:59	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	06.25.2020 08:59	U	
Total BTEX		<0.000367		0.000367	mg/L	06.25.2020 08:59	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	74	70 - 130	%		
4-Bromofluorobenzene	106	70 - 130	%		



Certificate of Analytical Results

665005

Talon LPE-Artesia, Artesia, NM
Plains MTJ2

Sample Id: 7706120-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 7706120-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3129915

Date Prep: 06.24.2020 08:00

Subcontractor: SUB: T104704400-19-19

Prep seq: 7706120

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	06.25.2020 01:35	U	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	06.25.2020 01:35	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	06.25.2020 01:35	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	06.25.2020 01:35	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	06.25.2020 01:35	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	76	70 - 130	%		
4-Bromofluorobenzene	117	70 - 130	%		



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Form 2 - Surrogate Recoveries

Project Name: Plains MTJ2

Work Orders : 665005

Project ID: 700376 045

Lab Batch #: 3129915

Sample: 7706120-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 06.24.2020 23:34

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0268	0.0300	89	70-130	
4-Bromofluorobenzene	0.0347	0.0300	116	70-130	

Lab Batch #: 3129915

Sample: 7706120-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 06.24.2020 23:55

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0270	0.0300	90	70-130	
4-Bromofluorobenzene	0.0345	0.0300	115	70-130	

Lab Batch #: 3129915

Sample: 665005-002 S / MS

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 06.25.2020 00:15

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0273	0.0300	91	70-130	
4-Bromofluorobenzene	0.0337	0.0300	112	70-130	

Lab Batch #: 3129915

Sample: 665005-002 SD / MSD

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 06.25.2020 00:35

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0270	0.0300	90	70-130	
4-Bromofluorobenzene	0.0340	0.0300	113	70-130	

Lab Batch #: 3129915

Sample: 7706120-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 06.25.2020 01:35

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0229	0.0300	76	70-130	
4-Bromofluorobenzene	0.0350	0.0300	117	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries

Project Name: Plains MTJ2

Work Order #: 665005

Project ID: 700376 045

Analyst: AMF

Date Prepared: 06.24.2020

Date Analyzed: 06.24.2020

Lab Batch ID: 3129915

Sample: 7706120-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000408	0.100	0.104	104	0.100	0.106	106	2	70-130	25	
Toluene	<0.000367	0.100	0.0992	99	0.100	0.102	102	3	70-130	25	
Ethylbenzene	<0.000657	0.100	0.105	105	0.100	0.108	108	3	70-130	25	
m_p-Xylenes	<0.000630	0.200	0.212	106	0.200	0.218	109	3	70-130	25	
o-Xylene	<0.000642	0.100	0.110	110	0.100	0.109	109	1	70-130	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: Plains MTJ2

Work Order #: 665005

Lab Batch ID: 3129915

Date Analyzed: 06.25.2020

Reporting Units: mg/L

QC- Sample ID: 665005-002 S

Date Prepared: 06.24.2020

Project ID: 700376 045

Batch #: 1 Matrix: Ground Water

Analyst: AMF

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	0.00119	0.100	0.111	110	0.100	0.109	108	2	70-130	25	
Toluene	<0.000367	0.100	0.107	107	0.100	0.105	105	2	70-130	25	
Ethylbenzene	<0.000657	0.100	0.115	115	0.100	0.112	112	3	70-130	25	
m_p-Xylenes	<0.000630	0.200	0.233	117	0.200	0.227	114	3	70-130	25	
o-Xylene	<0.000642	0.100	0.116	116	0.100	0.114	114	2	70-130	25	

Matrix Spike Percent Recovery $[D] = 100 * (C - A) / B$
 Relative Percent Difference $RPD = 200 * |(C - F) / (C + F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Chain of Custody

Work Order No: 1605005

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8900 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 889-6701

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Page 1 of 2

Project Manager:	DAVID ADKINS	Bill to: (if different)	PHILIP ALI AMERICO
Company Name:	TALON LPE	Company Name:	Signature
Address:	408 W TEXAS	Address:	ATTN: CAMILLE BRYANT
City, State ZIP:	ARLINGTON, TEXAS 76011	City, State ZIP:	585 # 2002-10273
Phone:	575 441 4835	Email:	adkins@talonlpe.com

Program: ☐ PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADAPT ☐ Other:

Project Name:	PHILIP ALI	Turn Around	☒
Project Number:	70032 04504	Routine	☒
Project Location:	ARLINGTON, TEXAS	Rush:	
Sampler's Name:	585 # 2002-10273	Due Date:	
PO #:	585 # 2002-10273	Quote #:	

SAMPLE RECEIPT	Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☐ No ☒
Temperature (°C):	3.20/3.0	Thermometer ID	TMM007	
Received Intact:	Yes ☒ No ☐	Correction Factor:	-0.2	
Cooler Custody Seals:	Yes ☐ No ☒ N/A	CU 914 Total Containers:	4851	
Sample Custody Seals:	Yes ☐ No ☒ N/A			

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	ANALYSIS REQUEST	Preservative Codes
MU 8	GL	6-17-20	11:10 AM		3	X		MeOH: Me
MU 13	GL	6-17-20	11:50 AM		3	X		None: NO
MU 4A	GL	6-17-20	2:10 PM		3	X		HNO3: HN
MU 6	GL	6-18-20	9:15 AM		3	X		H2SO4: H2
MU 12	GL	6-18-20	11:15 AM		3	X		HCL: HL
MU 11	GL	6-18-20	12:15 PM		3	X		NaOH: Na
MU 10	GL	6-18-20	1:15 PM		3	X		Zn Acetate+ NaOH: Zn
MU 23	GL	6-17-20	9:55 AM		3	X		TAT starts the day received by the lab, if received by 4:00pm
MU 22	GL	6-17-20	12:20 PM		3	X		
MU 7	GL	6-18-20	3:00 PM		3	X		

Sample Comments	EMPI ANALYTICALS TO CAMILLE BRYANT
-----------------	------------------------------------

Total 200.7 / 6010 200.8 / 6020:

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

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 Na Sr Ti Sn U V Zn

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

1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenencolab, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenencolab 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 of Xenencolab. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenencolab but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
6/19/20 16:00	6/19/20 16:00	2			
		4			
		6			



Chain of Custody

Work Order No: 160505

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Crystal, NM (432) 704-5440
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

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Page 2 of 2

Project Manager:	DAVID ADKINS	Bill to: (if different)	MAVIS All American
Company Name:	TALON LPE	Company Name:	P. DELIVE
Address:	408 W Texas	Address:	ATTA CAMPBELL BRYANT
City, State ZIP:	ARLESBUR NEW MEXICO 88220	City, State ZIP:	SRS # 2002-10273
Phone:	505 441 4835	Email:	ADKINS@TALONLPE.COM

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project:	
Reporting Level: ☐ I ☐ II ☐ III ☐ PST/UST ☐ TRAP ☐ Level IV ☐	Deliverables: EDD ☐ ADAPT ☐ Other: ☐

Project Name:	MAVIS MTS 2	Turn Around	☒
Project Number:	700376 04104	Routine	☒
Project Location:	ARLESBUR NEW MEXICO	Rush:	
Sampler's Name:	BILL KINGS	Due Date:	
PO #:	505 441 4835	Quote #:	

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):		Received Intact:	Yes	No	Thermometer ID		
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:			
Sample Custody Seals:	Yes	No	N/A	Total Containers:			

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers
	MW 9	GL	6-18-20	3:45pm		3
	MW 5	GL	6-18-20	2:15pm		3
	MW 20	GL	6-16-20	12:30pm		3
	MW 19	GL	6-16-20	1:30pm		3
	MW 18	GL	6-16-20	12:30pm		3
	MW 17	GL	6-19-20	10:20AM		3
	MW 3A	GL	10-17-20	3:00 PM		3

ANALYSIS REQUEST											
MeOH: Me ☐ None: NO ☐ HNO3: HN ☐ H2SO4: H2 ☐ HCL: HL ☐ NaOH: Na ☐ Zn Acetate+ NaOH: Zn ☐											
TAT starts the day received by the lab, if received by 4:00pm											
Sample Comments: <u>EMAIL ANALYTICALS</u> <u>CAMPBELL BRYANT</u>											

Total 200.7 / 6010 200.8 / 6020:

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

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 Na Sr Ti Sn U V Zn
 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>Bill King</u>	<u>[Signature]</u>	6/19/20 16:00			

Inter-Office Shipment

IOS Number : **65739**

Date/Time: 06.22.2020

Created by: Elizabeth McClellan

Please send report to: Jessica Kramer

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: **Midland**

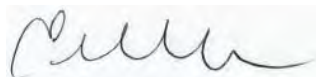
Air Bill No.:

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
665005-001	S	MW 8	06.17.2020 11:10	SW8021B	BTEX by EPA 8021	06.25.2020	07.01.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-002	S	MW 13	06.17.2020 11:50	SW8021B	BTEX by EPA 8021	06.25.2020	07.01.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-003	S	MW 4A	06.17.2020 14:10	SW8021B	BTEX by EPA 8021	06.25.2020	07.01.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-004	S	MW 6	06.18.2020 09:15	SW8021B	BTEX by EPA 8021	06.25.2020	07.02.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-005	S	MW 12	06.18.2020 11:15	SW8021B	BTEX by EPA 8021	06.25.2020	07.02.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-006	S	MW11	06.18.2020 12:15	SW8021B	BTEX by EPA 8021	06.25.2020	07.02.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-007	S	MW 10	06.18.2020 13:15	SW8021B	BTEX by EPA 8021	06.25.2020	07.02.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-008	S	MW 23	06.17.2020 09:55	SW8021B	BTEX by EPA 8021	06.25.2020	07.01.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-009	S	MW22	06.17.2020 10:20	SW8021B	BTEX by EPA 8021	06.25.2020	07.01.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-010	S	MW 7	06.18.2020 15:00	SW8021B	BTEX by EPA 8021	06.25.2020	07.02.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-011	S	MW 9	06.18.2020 15:45	SW8021B	BTEX by EPA 8021	06.25.2020	07.02.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-012	S	MW 5	06.18.2020 14:15	SW8021B	BTEX by EPA 8021	06.25.2020	07.02.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-013	S	MW 20	06.16.2020 12:30	SW8021B	BTEX by EPA 8021	06.25.2020	06.30.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-014	S	MW 19	06.16.2020 13:30	SW8021B	BTEX by EPA 8021	06.25.2020	06.30.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-015	S	MW 18	06.19.2020 12:30	SW8021B	BTEX by EPA 8021	06.25.2020	07.03.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-016	S	MW 17	06.19.2020 10:20	SW8021B	BTEX by EPA 8021	06.25.2020	07.03.2020	JKR	BR4FBZ BZ BZME EBZ	

Inter Office Shipment or Sample Comments:

Relinquished By:



Elizabeth McClellan

Date Relinquished: 06.22.2020

Received By: _____

Date Received: _____

Cooler Temperature: _____

Inter-Office Shipment

IOS Number : **65744**

Date/Time: 06.22.2020

Created by: Elizabeth McClellan

Please send report to: Jessica Kramer

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: **Midland**

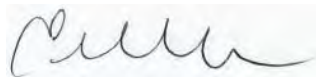
Air Bill No.: 770769934684

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
665005-001	W	MW 8	06.17.2020 11:10	SW8021B	BTEX by EPA 8021	06.25.2020	07.01.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-002	W	MW 13	06.17.2020 11:50	SW8021B	BTEX by EPA 8021	06.25.2020	07.01.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-003	W	MW 4A	06.17.2020 14:10	SW8021B	BTEX by EPA 8021	06.25.2020	07.01.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-004	W	MW 6	06.18.2020 09:15	SW8021B	BTEX by EPA 8021	06.25.2020	07.02.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-005	W	MW 12	06.18.2020 11:15	SW8021B	BTEX by EPA 8021	06.25.2020	07.02.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-006	W	MW11	06.18.2020 12:15	SW8021B	BTEX by EPA 8021	06.25.2020	07.02.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-007	W	MW 10	06.18.2020 13:15	SW8021B	BTEX by EPA 8021	06.25.2020	07.02.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-008	W	MW 23	06.17.2020 09:55	SW8021B	BTEX by EPA 8021	06.25.2020	07.01.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-009	W	MW22	06.17.2020 10:20	SW8021B	BTEX by EPA 8021	06.25.2020	07.01.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-010	W	MW 7	06.18.2020 15:00	SW8021B	BTEX by EPA 8021	06.25.2020	07.02.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-011	W	MW 9	06.18.2020 15:45	SW8021B	BTEX by EPA 8021	06.25.2020	07.02.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-012	W	MW 5	06.18.2020 14:15	SW8021B	BTEX by EPA 8021	06.25.2020	07.02.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-013	W	MW 20	06.16.2020 12:30	SW8021B	BTEX by EPA 8021	06.25.2020	06.30.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-014	W	MW 19	06.16.2020 13:30	SW8021B	BTEX by EPA 8021	06.25.2020	06.30.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-015	W	MW 18	06.19.2020 12:30	SW8021B	BTEX by EPA 8021	06.25.2020	07.03.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-016	W	MW 17	06.19.2020 10:20	SW8021B	BTEX by EPA 8021	06.25.2020	07.03.2020	JKR	BR4FBZ BZ BZME EBZ	
665005-017	W	MW 3A	06.17.2020 15:00	SW8021B	BTEX by EPA 8021	06.25.2020	07.01.2020	JKR	BR4FBZ BZ BZME EBZ	

Inter Office Shipment or Sample Comments:

Relinquished By:



Elizabeth McClellan

Date Relinquished: 06.22.2020

Received By:



Brianna Teel

Date Received: 06.23.2020

Cooler Temperature: 1.2



XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 65744

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sent By: Elizabeth McClellan

Date Sent: 06.22.2020 12.03 PM

Received By: Brianna Teel

Date Received: 06.23.2020 10.50 AM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 *Custody Seals Signed and dated for Containers/coolers	Yes
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Brianna Teel

Date: 06.23.2020

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Talon LPE-Artesia

Date/ Time Received: 06.19.2020 04.00.00 PM

Work Order #: 665005

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Yes
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Yes
#18 Water VOC samples have zero headspace?	Yes

Extra sample was added to COC in lab, per client request. 6/22/20 EM

Subbed ot Midland

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:



Elizabeth McClellan

Date: 06.22.2020

Checklist reviewed by:

Date: 06.22.2020



Analytical Report 673272

for

Talon LPE-Artesia

Project Manager: David Adkins

Plains MTJ2

700376 045 04

10.01.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



10.01.2020

Project Manager: **David Adkins**

Talon LPE-Artesia

408 West Texas St.

Artesia, NM 88210

Reference: Eurofins Xenco, LLC Report No(s): **673272**

Plains MTJ2

Project Address: Hobbs, New Mexico

David Adkins:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 673272. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 673272 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

**Sample Cross Reference 673272****Talon LPE-Artesia, Artesia, NM**

Plains MTJ2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW22	W	09.18.2020 10:30		673272-001
MW23	W	09.18.2020 11:15		673272-002
MW12	W	09.18.2020 12:15		673272-003
MW4A	W	09.18.2020 13:30		673272-004
MW8	W	09.18.2020 14:15		673272-005
MW6	W	09.18.2020 15:15		673272-006
MW13	W	09.21.2020 10:00		673272-007
MW3A	W	09.21.2020 11:15		673272-008
MW10	W	09.21.2020 13:00		673272-009
MW11	W	09.21.2020 13:50		673272-010
MW9	W	09.21.2020 12:50		673272-011
MW20	W	09.22.2020 04:45		673272-012
MW21A	W	09.22.2020 11:00		673272-013
MW19	W	09.22.2020 11:40		673272-014
MW18	W	09.22.2020 12:35		673272-015
MW17	W	09.22.2020 13:20		673272-016
MW5	W	09.22.2020 14:10		673272-017



CASE NARRATIVE

Client Name: Talon LPE-Artesia**Project Name: Plains MTJ2**Project ID: 700376 045 04
Work Order Number(s): 673272Report Date: 10.01.2020
Date Received: 09.22.2020

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

V1.001 Revision - Corrected sample ID to read MW-21A

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3138098 BTEX by EPA 8021

Lab Sample ID 673272-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Toluene, m_p-Xylenes, o-Xylene recovered above QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 673272-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017.

The Laboratory Control Sample for Toluene, m_p-Xylenes, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Surrogate 4-Bromofluorobenzene recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7712069-1-BKS, 7712069-1-BSD, 673272-001 S, 673272-001 SD, 673272-008, 673272-017, 673272-010, 673272-011, 673272-013, 673272-014, 673272-015, 673272-016, 673272-007, 673272-006, 673272-004, 673272-001, 673272-009.



Certificate of Analytical Results

673272

Talon LPE-Artesia, Artesia, NM

Plains MTJ2

Sample Id: **MW22** Matrix: Water Sample Depth:

Lab Sample Id: 673272-001 Date Collected: 09.18.2020 10:30 Date Received: 09.22.2020 16:04

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: AMF % Moist: Tech: AMF

Seq Number: 3138098 Date Prep: 09.24.2020 16:00

Subcontractor: SUB: T104704400-20-21 Prep seq: 7712069

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.0465	0.00200	0.000408	mg/L	09.24.2020 20:15		1
Toluene	108-88-3	0.000570	0.00200	0.000367	mg/L	09.24.2020 20:15	JX	1
Ethylbenzene	100-41-4	0.00296	0.00200	0.000657	mg/L	09.24.2020 20:15		1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	09.24.2020 20:15	UX	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	09.24.2020 20:15	UX	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	09.24.2020 20:15	U	
Total BTEX		0.0500		0.000367	mg/L	09.24.2020 20:15		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	86	70 - 130	%		
4-Bromofluorobenzene	138	70 - 130	%		**

Sample Id: **MW23** Matrix: Water Sample Depth:

Lab Sample Id: 673272-002 Date Collected: 09.18.2020 11:15 Date Received: 09.22.2020 16:04

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: AMF % Moist: Tech: AMF

Seq Number: 3138098 Date Prep: 09.24.2020 16:00

Subcontractor: SUB: T104704400-20-21 Prep seq: 7712069

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.0137	0.00200	0.000408	mg/L	09.24.2020 20:35		1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	09.24.2020 20:35	U	1
Ethylbenzene	100-41-4	0.00178	0.00200	0.000657	mg/L	09.24.2020 20:35	J	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	09.24.2020 20:35	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	09.24.2020 20:35	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	09.24.2020 20:35	U	
Total BTEX		0.0155		0.000367	mg/L	09.24.2020 20:35		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	97	70 - 130	%		
4-Bromofluorobenzene	122	70 - 130	%		



Certificate of Analytical Results

673272

Talon LPE-Artesia, Artesia, NM

Plains MTJ2

Sample Id: **MW12** Matrix: Water Sample Depth:

Lab Sample Id: 673272-003 Date Collected: 09.18.2020 12:15 Date Received: 09.22.2020 16:04

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: AMF % Moist: Tech: AMF

Seq Number: 3138098 Date Prep: 09.24.2020 16:00

Subcontractor: SUB: T104704400-20-21 Prep seq: 7712069

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.0142	0.00200	0.000408	mg/L	09.24.2020 20:56		1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	09.24.2020 20:56	U	1
Ethylbenzene	100-41-4	0.00196	0.00200	0.000657	mg/L	09.24.2020 20:56	J	1
m_p-Xylenes	179601-23-1	0.000850	0.00400	0.000630	mg/L	09.24.2020 20:56	J	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	09.24.2020 20:56	U	1
Xylenes, Total	1330-20-7	0.000850		0.000630	mg/L	09.24.2020 20:56	J	
Total BTEX		0.0170		0.000367	mg/L	09.24.2020 20:56		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	93	70 - 130	%		
4-Bromofluorobenzene	127	70 - 130	%		

Sample Id: **MW4A** Matrix: Water Sample Depth:

Lab Sample Id: 673272-004 Date Collected: 09.18.2020 13:30 Date Received: 09.22.2020 16:04

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: AMF % Moist: Tech: AMF

Seq Number: 3138098 Date Prep: 09.24.2020 16:00

Subcontractor: SUB: T104704400-20-21 Prep seq: 7712069

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00675	0.00200	0.000408	mg/L	09.24.2020 21:17		1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	09.24.2020 21:17	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	09.24.2020 21:17	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	09.24.2020 21:17	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	09.24.2020 21:17	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	09.24.2020 21:17	U	
Total BTEX		0.00675		0.000367	mg/L	09.24.2020 21:17		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	96	70 - 130	%		
4-Bromofluorobenzene	131	70 - 130	%		**



Certificate of Analytical Results

673272

Talon LPE-Artesia, Artesia, NM

Plains MTJ2

Sample Id: **MW8** Matrix: Water Sample Depth:

Lab Sample Id: 673272-005 Date Collected: 09.18.2020 14:15 Date Received: 09.22.2020 16:04

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: AMF % Moist: Tech: AMF

Seq Number: 3138098 Date Prep: 09.24.2020 16:00

Subcontractor: SUB: T104704400-20-21 Prep seq: 7712069

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00825	0.00200	0.000408	mg/L	09.24.2020 21:37		1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	09.24.2020 21:37	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	09.24.2020 21:37	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	09.24.2020 21:37	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	09.24.2020 21:37	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	09.24.2020 21:37	U	
Total BTEX		0.00825		0.000367	mg/L	09.24.2020 21:37		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	93	70 - 130	%		
4-Bromofluorobenzene	129	70 - 130	%		

Sample Id: **MW6** Matrix: Water Sample Depth:

Lab Sample Id: 673272-006 Date Collected: 09.18.2020 15:15 Date Received: 09.22.2020 16:04

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: AMF % Moist: Tech: AMF

Seq Number: 3138098 Date Prep: 09.24.2020 16:00

Subcontractor: SUB: T104704400-20-21 Prep seq: 7712069

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00873	0.00200	0.000408	mg/L	09.24.2020 21:58		1
Toluene	108-88-3	0.00215	0.00200	0.000367	mg/L	09.24.2020 21:58		1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	09.24.2020 21:58	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	09.24.2020 21:58	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	09.24.2020 21:58	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	09.24.2020 21:58	U	
Total BTEX		0.0109		0.000367	mg/L	09.24.2020 21:58		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	98	70 - 130	%		
4-Bromofluorobenzene	137	70 - 130	%		**



Certificate of Analytical Results

673272

Talon LPE-Artesia, Artesia, NM

Plains MTJ2

Sample Id: **MW13** Matrix: Water Sample Depth:

Lab Sample Id: 673272-007 Date Collected: 09.21.2020 10:00 Date Received: 09.22.2020 16:04

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: AMF % Moist: Tech: AMF

Seq Number: 3138098 Date Prep: 09.24.2020 16:00

Subcontractor: SUB: T104704400-20-21 Prep seq: 7712069

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.0111	0.00200	0.000408	mg/L	09.24.2020 22:19		1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	09.24.2020 22:19	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	09.24.2020 22:19	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	09.24.2020 22:19	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	09.24.2020 22:19	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	09.24.2020 22:19	U	
Total BTEX		0.0111		0.000367	mg/L	09.24.2020 22:19		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	70 - 130	%		
4-Bromofluorobenzene	137	70 - 130	%		**

Sample Id: **MW3A** Matrix: Water Sample Depth:

Lab Sample Id: 673272-008 Date Collected: 09.21.2020 11:15 Date Received: 09.22.2020 16:04

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: AMF % Moist: Tech: AMF

Seq Number: 3138098 Date Prep: 09.24.2020 16:00

Subcontractor: SUB: T104704400-20-21 Prep seq: 7712069

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00858	0.00200	0.000408	mg/L	09.24.2020 22:40		1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	09.24.2020 22:40	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	09.24.2020 22:40	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	09.24.2020 22:40	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	09.24.2020 22:40	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	09.24.2020 22:40	U	
Total BTEX		0.00858		0.000367	mg/L	09.24.2020 22:40		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	97	70 - 130	%		
4-Bromofluorobenzene	135	70 - 130	%		**



Certificate of Analytical Results

673272

Talon LPE-Artesia, Artesia, NM

Plains MTJ2

Sample Id: **MW10** Matrix: Water Sample Depth:

Lab Sample Id: 673272-009 Date Collected: 09.21.2020 13:00 Date Received: 09.22.2020 16:04

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: AMF % Moist: Tech: AMF

Seq Number: 3138098 Date Prep: 09.24.2020 16:00

Subcontractor: SUB: T104704400-20-21 Prep seq: 7712069

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.0138	0.00200	0.000408	mg/L	09.24.2020 23:00		1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	09.24.2020 23:00	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	09.24.2020 23:00	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	09.24.2020 23:00	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	09.24.2020 23:00	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	09.24.2020 23:00	U	
Total BTEX		0.0138		0.000367	mg/L	09.24.2020 23:00		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	92	70 - 130	%		
4-Bromofluorobenzene	135	70 - 130	%		**

Sample Id: **MW11** Matrix: Water Sample Depth:

Lab Sample Id: 673272-010 Date Collected: 09.21.2020 13:50 Date Received: 09.22.2020 16:04

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: AMF % Moist: Tech: AMF

Seq Number: 3138098 Date Prep: 09.24.2020 16:00

Subcontractor: SUB: T104704400-20-21 Prep seq: 7712069

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00471	0.00200	0.000408	mg/L	09.25.2020 01:23		1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	09.25.2020 01:23	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	09.25.2020 01:23	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	09.25.2020 01:23	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	09.25.2020 01:23	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	09.25.2020 01:23	U	
Total BTEX		0.00471		0.000367	mg/L	09.25.2020 01:23		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	70 - 130	%		
4-Bromofluorobenzene	138	70 - 130	%		**



Certificate of Analytical Results

673272

Talon LPE-Artesia, Artesia, NM

Plains MTJ2

Sample Id: **MW9** Matrix: Water Sample Depth:

Lab Sample Id: 673272-011 Date Collected: 09.21.2020 12:50 Date Received: 09.22.2020 16:04

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: AMF % Moist: Tech: AMF

Seq Number: 3138098 Date Prep: 09.24.2020 16:00

Subcontractor: SUB: T104704400-20-21 Prep seq: 7712069

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.0726	0.00200	0.000408	mg/L	09.25.2020 01:43		1
Toluene	108-88-3	0.00124	0.00200	0.000367	mg/L	09.25.2020 01:43	J	1
Ethylbenzene	100-41-4	0.0139	0.00200	0.000657	mg/L	09.25.2020 01:43		1
m_p-Xylenes	179601-23-1	0.0146	0.00400	0.000630	mg/L	09.25.2020 01:43		1
o-Xylene	95-47-6	0.0124	0.00200	0.000642	mg/L	09.25.2020 01:43		1
Xylenes, Total	1330-20-7	0.0270		0.000630	mg/L	09.25.2020 01:43		
Total BTEX		0.115		0.000367	mg/L	09.25.2020 01:43		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	96	70 - 130	%		
4-Bromofluorobenzene	132	70 - 130	%		**

Sample Id: **MW20** Matrix: Water Sample Depth:

Lab Sample Id: 673272-012 Date Collected: 09.22.2020 04:45 Date Received: 09.22.2020 16:04

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: AMF % Moist: Tech: AMF

Seq Number: 3138098 Date Prep: 09.24.2020 16:00

Subcontractor: SUB: T104704400-20-21 Prep seq: 7712069

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00876	0.00200	0.000408	mg/L	09.25.2020 02:04		1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	09.25.2020 02:04	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	09.25.2020 02:04	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	09.25.2020 02:04	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	09.25.2020 02:04	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	09.25.2020 02:04	U	
Total BTEX		0.00876		0.000367	mg/L	09.25.2020 02:04		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	70 - 130	%		
4-Bromofluorobenzene	128	70 - 130	%		



Certificate of Analytical Results

673272

Talon LPE-Artesia, Artesia, NM

Plains MTJ2

Sample Id: **MW21A** Matrix: Water Sample Depth:

Lab Sample Id: 673272-013 Date Collected: 09.22.2020 11:00 Date Received: 09.22.2020 16:04

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: AMF % Moist: Tech: AMF

Seq Number: 3138098 Date Prep: 09.24.2020 16:00

Subcontractor: SUB: T104704400-20-21 Prep seq: 7712069

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00468	0.00200	0.000408	mg/L	09.25.2020 02:25		1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	09.25.2020 02:25	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	09.25.2020 02:25	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	09.25.2020 02:25	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	09.25.2020 02:25	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	09.25.2020 02:25	U	
Total BTEX		0.00468		0.000367	mg/L	09.25.2020 02:25		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	92	70 - 130	%		
4-Bromofluorobenzene	133	70 - 130	%		**

Sample Id: **MW19** Matrix: Water Sample Depth:

Lab Sample Id: 673272-014 Date Collected: 09.22.2020 11:40 Date Received: 09.22.2020 16:04

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: AMF % Moist: Tech: AMF

Seq Number: 3138098 Date Prep: 09.24.2020 16:00

Subcontractor: SUB: T104704400-20-21 Prep seq: 7712069

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00585	0.00200	0.000408	mg/L	09.25.2020 02:45		1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	09.25.2020 02:45	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	09.25.2020 02:45	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	09.25.2020 02:45	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	09.25.2020 02:45	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	09.25.2020 02:45	U	
Total BTEX		0.00585		0.000367	mg/L	09.25.2020 02:45		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	93	70 - 130	%		
4-Bromofluorobenzene	135	70 - 130	%		**



Certificate of Analytical Results

673272

Talon LPE-Artesia, Artesia, NM

Plains MTJ2

Sample Id: **MW18** Matrix: Water Sample Depth:

Lab Sample Id: 673272-015 Date Collected: 09.22.2020 12:35 Date Received: 09.22.2020 16:04

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: AMF % Moist: Tech: AMF

Seq Number: 3138098 Date Prep: 09.24.2020 16:00

Subcontractor: SUB: T104704400-20-21 Prep seq: 7712069

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00496	0.00200	0.000408	mg/L	09.25.2020 03:06		1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	09.25.2020 03:06	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	09.25.2020 03:06	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	09.25.2020 03:06	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	09.25.2020 03:06	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	09.25.2020 03:06	U	
Total BTEX		0.00496		0.000367	mg/L	09.25.2020 03:06		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	97	70 - 130	%		
4-Bromofluorobenzene	146	70 - 130	%		**

Sample Id: **MW17** Matrix: Water Sample Depth:

Lab Sample Id: 673272-016 Date Collected: 09.22.2020 13:20 Date Received: 09.22.2020 16:04

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: AMF % Moist: Tech: AMF

Seq Number: 3138098 Date Prep: 09.24.2020 16:00

Subcontractor: SUB: T104704400-20-21 Prep seq: 7712069

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00594	0.00200	0.000408	mg/L	09.25.2020 03:27		1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	09.25.2020 03:27	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	09.25.2020 03:27	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	09.25.2020 03:27	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	09.25.2020 03:27	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	09.25.2020 03:27	U	
Total BTEX		0.00594		0.000367	mg/L	09.25.2020 03:27		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	92	70 - 130	%		
4-Bromofluorobenzene	135	70 - 130	%		**



Certificate of Analytical Results

673272

Talon LPE-Artesia, Artesia, NM
Plains MTJ2

Sample Id: MW5	Matrix: Water	Sample Depth:
Lab Sample Id: 673272-017	Date Collected: 09.22.2020 14:10	Date Received: 09.22.2020 16:04
Analytical Method: BTEX by EPA 8021		Prep Method: 5030B
Analyst: AMF	% Moist:	Tech: AMF
Seq Number: 3138098	Date Prep: 09.24.2020 16:00	
Subcontractor: SUB: T104704400-20-21	Prep seq: 7712069	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00558	0.00200	0.000408	mg/L	09.25.2020 03:48		1
Toluene	108-88-3	0.00268	0.00200	0.000367	mg/L	09.25.2020 03:48		1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	09.25.2020 03:48	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	09.25.2020 03:48	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	09.25.2020 03:48	U	1
Xylenes, Total	1330-20-7	<0.000630		0.000630	mg/L	09.25.2020 03:48	U	
Total BTEX		0.00826		0.000367	mg/L	09.25.2020 03:48		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	96	70 - 130	%		
4-Bromofluorobenzene	138	70 - 130	%		**



Certificate of Analytical Results

673272

Talon LPE-Artesia, Artesia, NM

Plains MTJ2

Sample Id: 7712069-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 7712069-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: AMF

% Moist:

Tech: AMF

Seq Number: 3138098

Date Prep: 09.24.2020 16:00

Subcontractor: SUB: T104704400-20-21

Prep seq: 7712069

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	09.24.2020 19:50	U	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	09.24.2020 19:50	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	09.24.2020 19:50	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	09.24.2020 19:50	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	09.24.2020 19:50	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	78	70 - 130	%		
4-Bromofluorobenzene	121	70 - 130	%		



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Form 2 - Surrogate Recoveries

Project Name: Plains MTJ2

Report Date: 10012020

Work Orders : 673272

Project ID: 700376 045 04

Lab Batch #: 3138098

Sample: 7712069-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09.24.2020 17:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0287	0.0300	96	70-130	
4-Bromofluorobenzene	0.0403	0.0300	134	70-130	**

Lab Batch #: 3138098

Sample: 673272-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09.24.2020 18:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0300	0.0300	100	70-130	
4-Bromofluorobenzene	0.0419	0.0300	140	70-130	**

Lab Batch #: 3138098

Sample: 673272-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09.24.2020 18:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0308	0.0300	103	70-130	
4-Bromofluorobenzene	0.0423	0.0300	141	70-130	**

Lab Batch #: 3138098

Sample: 7712069-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09.24.2020 19:50

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0234	0.0300	78	70-130	
4-Bromofluorobenzene	0.0364	0.0300	121	70-130	

Lab Batch #: 3138098

Sample: 7712069-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09.24.2020 23:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0302	0.0300	101	70-130	
4-Bromofluorobenzene	0.0482	0.0300	161	70-130	**

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries

Project Name: Plains MTJ2

Work Order #: 673272

Project ID: 700376 045 04

Analyst: AMF

Date Prepared: 09.24.2020

Date Analyzed: 09.24.2020

Lab Batch ID: 3138098

Sample: 7712069-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000408	0.100	0.120	120	0.100	0.126	126	5	70-130	25	
Toluene	<0.000367	0.100	0.123	123	0.100	0.126	126	2	70-130	25	
Ethylbenzene	<0.000657	0.100	0.121	121	0.100	0.117	117	3	70-130	25	
m_p-Xylenes	<0.000630	0.200	0.257	129	0.200	0.254	127	1	70-130	25	
o-Xylene	<0.000642	0.100	0.125	125	0.100	0.129	129	3	70-130	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries



Project Name: Plains MTJ2

Work Order #: 673272

Lab Batch ID: 3138098

Date Analyzed: 09.24.2020

Reporting Units: mg/L

QC- Sample ID: 673272-001 S

Date Prepared: 09.24.2020

Report Date: 10012020

Project ID: 700376 045 04

Batch #: 1 Matrix: Water

Analyst: AMF

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	0.0465	0.100	0.164	118	0.100	0.174	128	6	70-130	25	
Toluene	0.000570	0.100	0.125	124	0.100	0.132	131	5	70-130	25	X
Ethylbenzene	0.00296	0.100	0.121	118	0.100	0.129	126	6	70-130	25	
m_p-Xylenes	<0.000630	0.200	0.255	128	0.200	0.271	136	6	70-130	25	X
o-Xylene	<0.000642	0.100	0.126	126	0.100	0.136	136	8	70-130	25	X

Matrix Spike Percent Recovery $[D] = 100 \times (C - A) / B$
 Relative Percent Difference $RPD = 200 \times |(C - F) / (C + F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Chain of Custody

Work Order No: 673872

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

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Project Manager:	DAVID ADKINS	Bill to: (if different)	DAVID ADKINS
Company Name:	TALON LPE	Company Name:	PIPELINE
Address:	408 Texas	Address:	AM CAMILLE BRYANT
City, State ZIP:	ARRESTA New Mexico 88210	City, State ZIP:	SRS # 2002 10273
Phone:	505 441 4835	Email:	ADKINS@TALONLPE.COM

Project Name:	PLANS MTS	Turn Around	Pres. Code
Project Number:	700376 045 04	Routine	☒
Project Location:	Hobbs New Mexico	Rush:	
Sampler's Name:	B.I. RIGGS	Due Date:	
PO #:	SAS # 2002-10023	Quote #:	

SAMPLE RECEIPT	Temperature (°C):	22/20.0	Temp Blank:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No
	Received Intact:	☒ Yes ☐ No	Thermometer ID	TNU4003		
	Cooler Custody Seals:	☒ Yes ☐ No	Correction Factor:	-0.2		
	Sample Custody Seals:	☒ Yes ☐ No	Total Containers:	13		
	Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
	MU022	GW	9-18-20	1030AM		3
	MU023	GW	9-18-20	1115AM		3
	MU042	GW	9-18-20	1245P		3
	MU044	GW	9-18-20	1300P		3
	MU08	GW	9-18-20	215P		3
	MU06	GW	9-18-20	315P		3
	MU013	GW	9-21-20	10AM		3
	MU03A	GW	9-21-20	1115AM		3
	MU010	GW	9-21-20	1P		3
	MU011	GW	9-21-20	150P		3

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed: 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 Na Sr Ti Sn U V Zn

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Bill Riggs	Cue Upder	9-22-20 16:01			



Chain of Custody

Work Order No: 673272

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Casabad, NM (432) 704-5440
Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-67

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Project Manager:	DAVID ADKINS	Bill To: (if different)	PHILIPS All American
Company Name:	TALON LPE	Company Name:	PIPELINE
Address:	408 TEXAS	Address:	ATTN CAMILLE BRYANT
City, State ZIP:	ARRESTA New Mexico	City, State ZIP:	SRS # 2002 10223
Phone:	575 441 4835	Email:	DADKINS@TALONLPE.COM

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting Level:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADAPT ☐ Other: ☐

Project Name:				Turn Around		ANALYSIS REQUEST												Preservative Codes									
Project Number:				Routine														MeOH: Me									
Project Location:				Rush:														None: NO									
Sampler's Name:				Due Date:														HNO3: HN									
PO #:				Quote #:														H2SO4: H2									
SAMPLE RECEIPT				Temp Blank:		Yes No		Wet Ice:		Yes No														HCL: HL			
Temperature (°C):				22/2.0				Thermometer ID																NaOH: Na			
Received Intact:				Yes No				TMM-007																Zn Acetate+ NaOH: Zn			
Cooler Custody Seals:				Yes No				Correction Factor:		b.0														TAT starts the day received by the lab, if received by 4:00pm			
Sample Custody Seals:				Yes No				Total Containers:		R																	
Lab ID				Sample Identification		Matrix		Date Sampled		Time Sampled		Depth		Number of Containers												Sample Comments	
				MU 9		GW		9/21/20		12/15 P				X												Email Analytical	
				MU 20		GW		9/22/20		9/45 A				X												TO:	
				MU 21		GW		9/22/20		11 A				X												Camille Bryant	
				MU 19		GW		9/22/20		11/40 A				X													
				MU 18		GW		9/22/20		12/35 P				X													
				MU 17		GW		9/22/20		1/30 P				X													
				MU 5		GW		9/22/20		2/10 P				X													

Total 200.7 / 6010 200.8 / 6020:

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

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 Na Sr Ti Sn U V Zn
TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
1631 / 245.1 / 7470

1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and full relinquishment of samples constitutes a valid purchase order from client company to Xencio, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xencio 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 of Xencio. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xencio, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Bud Dugg</i>	<i>Clive Dugg</i>	9-23-20 16:04			

Inter-Office Shipment

IOS Number : **70876**

Date/Time: 09.23.2020

Created by: Cloe Clifton

Please send report to: Jessica Kramer

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: **Midland**

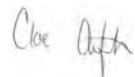
Air Bill No.:

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
673272-001	W	MW22	09.18.2020 10:30	SW8021B	BTEX by EPA 8021	09.28.2020	10.02.2020	JKR	BR4FBZ BZ BZME EBZ	
673272-002	W	MW23	09.18.2020 11:15	SW8021B	BTEX by EPA 8021	09.28.2020	10.02.2020	JKR	BR4FBZ BZ BZME EBZ	
673272-003	W	MW12	09.18.2020 12:15	SW8021B	BTEX by EPA 8021	09.28.2020	10.02.2020	JKR	BR4FBZ BZ BZME EBZ	
673272-004	W	MW4A	09.18.2020 13:30	SW8021B	BTEX by EPA 8021	09.28.2020	10.02.2020	JKR	BR4FBZ BZ BZME EBZ	
673272-005	W	MW8	09.18.2020 14:15	SW8021B	BTEX by EPA 8021	09.28.2020	10.02.2020	JKR	BR4FBZ BZ BZME EBZ	
673272-006	W	MW6	09.18.2020 15:15	SW8021B	BTEX by EPA 8021	09.28.2020	10.02.2020	JKR	BR4FBZ BZ BZME EBZ	
673272-007	W	MW13	09.21.2020 10:00	SW8021B	BTEX by EPA 8021	09.28.2020	10.05.2020	JKR	BR4FBZ BZ BZME EBZ	
673272-008	W	MW3A	09.21.2020 11:15	SW8021B	BTEX by EPA 8021	09.28.2020	10.05.2020	JKR	BR4FBZ BZ BZME EBZ	
673272-009	W	MW10	09.21.2020 13:00	SW8021B	BTEX by EPA 8021	09.28.2020	10.05.2020	JKR	BR4FBZ BZ BZME EBZ	
673272-010	W	MW11	09.21.2020 13:50	SW8021B	BTEX by EPA 8021	09.28.2020	10.05.2020	JKR	BR4FBZ BZ BZME EBZ	
673272-011	W	MW9	09.21.2020 12:50	SW8021B	BTEX by EPA 8021	09.28.2020	10.05.2020	JKR	BR4FBZ BZ BZME EBZ	
673272-012	W	MW20	09.22.2020 04:45	SW8021B	BTEX by EPA 8021	09.28.2020	10.06.2020	JKR	BR4FBZ BZ BZME EBZ	
673272-013	W	MW21	09.22.2020 11:00	SW8021B	BTEX by EPA 8021	09.28.2020	10.06.2020	JKR	BR4FBZ BZ BZME EBZ	
673272-014	W	MW19	09.22.2020 11:40	SW8021B	BTEX by EPA 8021	09.28.2020	10.06.2020	JKR	BR4FBZ BZ BZME EBZ	
673272-015	W	MW18	09.22.2020 12:35	SW8021B	BTEX by EPA 8021	09.28.2020	10.06.2020	JKR	BR4FBZ BZ BZME EBZ	
673272-016	W	MW17	09.22.2020 13:20	SW8021B	BTEX by EPA 8021	09.28.2020	10.06.2020	JKR	BR4FBZ BZ BZME EBZ	
673272-017	W	MW5	09.22.2020 14:10	SW8021B	BTEX by EPA 8021	09.28.2020	10.06.2020	JKR	BR4FBZ BZ BZME EBZ	

Inter Office Shipment or Sample Comments:

Relinquished By:



Cloe Clifton

Date Relinquished: 09.23.2020

Received By:



Jessica Kramer

Date Received: 09.24.2020

Cooler Temperature: 3.1

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 70876

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sent By: Cloe Clifton

Date Sent: 09.23.2020 02.26 PM

Received By: Jessica Kramer

Date Received: 09.24.2020 11.49 AM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	3.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 *Custody Seals Signed and dated for Containers/coolers	Yes
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Jessica Kramer

Jessica Kramer

Date: 09.24.2020

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Talon LPE-Artesia

Date/ Time Received: 09.22.2020 04.04.00 PM

Work Order #: 673272

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Yes
#18 Water VOC samples have zero headspace?	Yes

Samples sent to Midland

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 09.22.2020

Checklist reviewed by:



Jessica Kramer

Date: 09.23.2020



Analytical Report 679989

for

Talon LPE-Artesia

Project Manager: David Adkins

Plains Moore To Jal 2

700376 045 04

12.14.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



12.14.2020

Project Manager: **David Adkins**

Talon LPE-Artesia

408 West Texas St.

Artesia, NM 88210

Reference: Eurofins Xenco, LLC Report No(s): **679989**

Plains Moore To Jal 2

Project Address: Hobbs, New Mexico

David Adkins:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 679989. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 679989 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

**Sample Cross Reference 679989****Talon LPE-Artesia, Artesia, NM**

Plains Moore To Jal 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-21 A	W	12.02.2020 08:40		679989-001
MW-20	W	12.02.2020 09:10		679989-002
MW-19	W	12.02.2020 10:10		679989-003
MW-18	W	12.02.2020 11:15		679989-004
MW-17	W	12.02.2020 12:15		679989-005
MW-23	W	12.04.2020 10:00		679989-006
MW-22	W	12.04.2020 10:10		679989-007
MW-11	W	12.02.2020 13:35		679989-008
MW-12	W	12.02.2020 14:25		679989-009
MW-13	W	12.02.2020 15:25		679989-010
MW-8	W	12.02.2020 10:15		679989-011
MW-3 A	W	12.04.2020 13:40		679989-012
MW-9	W	12.04.2020 12:50		679989-013
MW-10	W	12.04.2020 11:00		679989-014
MW-5	W	12.05.2020 12:15		679989-015
MW-7	W	12.04.2020 14:35		679989-016
MW-4 A	W	12.04.2020 09:35		679989-017
MW-6	W	12.05.2020 11:15		679989-018

**CASE NARRATIVE****Client Name: Talon LPE-Artesia****Project Name: Plains Moore To Jal 2**Project ID: 700376 045 04
Work Order Number(s): 679989Report Date: 12.14.2020
Date Received: 12.07.2020

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:**Sample receipt non conformances and comments per sample:**

None

Analytical non conformances and comments:

Batch: LBA-3144379 BTEX by EPA 8021

Surrogate 1,4-Difluorobenzene recovered above QC limits . Samples affected are: 7716761-1-BSD,679910-011 S,679910-011 SD,679989-004,679989-003,679989-002,679989-005,679989-001.

Batch: LBA-3144492 BTEX by EPA 8021

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected;
Samples affected are: 679989-011,679989-015.

Surrogate 1,4-Difluorobenzene recovered above QC limits. Samples affected are: 7716821-1-BKS,7716821-1-BSD,679910-001 S,679910-001 SD,679989-009,679989-008,679989-007,679989-006,679989-010,679989-018,679989-012,679989-013,679989-015,679989-016,679989-017.

Batch: LBA-3144538 BTEX by EPA 8021

Toluene RPD was outside laboratory control limits.

Samples in the analytical batch are: 679989-014

Surrogate 1,4-Difluorobenzene recovered above QC limits . Samples affected are: 7716864-1-BKS,7716864-1-BSD,680330-001 S,680330-001 SD.

Surrogate 4-Bromofluorobenzene recovered above QC limits . Samples affected are: 7716864-1-BSD,679989-014.



Certificate of Analytical Results

679989

Talon LPE-Artesia, Artesia, NM

Plains Moore To Jal 2

Sample Id: **MW-21 A** Matrix: Water Sample Depth:

Lab Sample Id: 679989-001 Date Collected: 12.02.2020 08:40 Date Received: 12.07.2020 08:33

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144379 Date Prep: 12.09.2020 12:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716761

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00137	0.00200	0.000408	mg/L	12.09.2020 18:43	J	1
Toluene	108-88-3	0.000920	0.00200	0.000367	mg/L	12.09.2020 18:43	J	1
Ethylbenzene	100-41-4	0.000730	0.00200	0.000657	mg/L	12.09.2020 18:43	J	1
m_p-Xylenes	179601-23-1	0.000700	0.00400	0.000630	mg/L	12.09.2020 18:43	J	1
o-Xylene	95-47-6	0.000780	0.00200	0.000642	mg/L	12.09.2020 18:43	J	1
Xylenes, Total	1330-20-7	0.001480		0.0006300	mg/L	12.09.2020 18:43	J	
Total BTEX		0.004500		0.0003670	mg/L	12.09.2020 18:43		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	157	70 - 130	%		**
4-Bromofluorobenzene	111	70 - 130	%		

Sample Id: **MW-20** Matrix: Water Sample Depth:

Lab Sample Id: 679989-002 Date Collected: 12.02.2020 09:10 Date Received: 12.07.2020 08:33

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144379 Date Prep: 12.09.2020 12:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716761

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00105	0.00200	0.000408	mg/L	12.09.2020 19:09	J	1
Toluene	108-88-3	0.00131	0.00200	0.000367	mg/L	12.09.2020 19:09	J	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	12.09.2020 19:09	U	1
m_p-Xylenes	179601-23-1	0.00109	0.00400	0.000630	mg/L	12.09.2020 19:09	J	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	12.09.2020 19:09	U	1
Xylenes, Total	1330-20-7	0.001090		0.0006300	mg/L	12.09.2020 19:09	J	
Total BTEX		0.003450		0.0003670	mg/L	12.09.2020 19:09		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	161	70 - 130	%		**
4-Bromofluorobenzene	118	70 - 130	%		



Certificate of Analytical Results

679989

Talon LPE-Artesia, Artesia, NM

Plains Moore To Jal 2

Sample Id: **MW-19**

Matrix: Water

Sample Depth:

Lab Sample Id: 679989-003

Date Collected: 12.02.2020 10:10

Date Received: 12.07.2020 08:33

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: MNR

% Moist:

Seq Number: 3144379

Date Prep: 12.09.2020 12:00

Tech: MNR

Subcontractor: SUB: T104704400-20-21

Prep seq: 7716761

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00143	0.00200	0.000408	mg/L	12.09.2020 19:35	J	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	12.09.2020 19:35	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	12.09.2020 19:35	U	1
m_p-Xylenes	179601-23-1	0.000860	0.00400	0.000630	mg/L	12.09.2020 19:35	J	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	12.09.2020 19:35	U	1
Xylenes, Total	1330-20-7	0.0008600		0.0006300	mg/L	12.09.2020 19:35	J	
Total BTEX		0.002290		0.0003670	mg/L	12.09.2020 19:35		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	174	70 - 130	%		**
4-Bromofluorobenzene	111	70 - 130	%		

Sample Id: **MW-18**

Matrix: Water

Sample Depth:

Lab Sample Id: 679989-004

Date Collected: 12.02.2020 11:15

Date Received: 12.07.2020 08:33

Analytical Method: BTEX by EPA 8021

Prep Method: 5030B

Analyst: MNR

% Moist:

Seq Number: 3144379

Date Prep: 12.09.2020 12:00

Tech: MNR

Subcontractor: SUB: T104704400-20-21

Prep seq: 7716761

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.000630	0.00200	0.000408	mg/L	12.09.2020 20:01	J	1
Toluene	108-88-3	0.00138	0.00200	0.000367	mg/L	12.09.2020 20:01	J	1
Ethylbenzene	100-41-4	0.000810	0.00200	0.000657	mg/L	12.09.2020 20:01	J	1
m_p-Xylenes	179601-23-1	0.00116	0.00400	0.000630	mg/L	12.09.2020 20:01	J	1
o-Xylene	95-47-6	0.000900	0.00200	0.000642	mg/L	12.09.2020 20:01	J	1
Xylenes, Total	1330-20-7	0.002060		0.0006300	mg/L	12.09.2020 20:01		
Total BTEX		0.004880		0.0003670	mg/L	12.09.2020 20:01		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	156	70 - 130	%		**
4-Bromofluorobenzene	122	70 - 130	%		



Certificate of Analytical Results

679989

Talon LPE-Artesia, Artesia, NM

Plains Moore To Jal 2

Sample Id: **MW-17** Matrix: Water Sample Depth:

Lab Sample Id: 679989-005 Date Collected: 12.02.2020 12:15 Date Received: 12.07.2020 08:33

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144379 Date Prep: 12.09.2020 12:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716761

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00123	0.00200	0.000408	mg/L	12.09.2020 20:27	J	1
Toluene	108-88-3	0.00123	0.00200	0.000367	mg/L	12.09.2020 20:27	J	1
Ethylbenzene	100-41-4	0.000670	0.00200	0.000657	mg/L	12.09.2020 20:27	J	1
m_p-Xylenes	179601-23-1	0.000900	0.00400	0.000630	mg/L	12.09.2020 20:27	J	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	12.09.2020 20:27	U	1
Xylenes, Total	1330-20-7	0.0009000		0.0006300	mg/L	12.09.2020 20:27	J	
Total BTEX		0.004030		0.0003670	mg/L	12.09.2020 20:27		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	163	70 - 130	%		**
4-Bromofluorobenzene	115	70 - 130	%		

Sample Id: **MW-23** Matrix: Water Sample Depth:

Lab Sample Id: 679989-006 Date Collected: 12.04.2020 10:00 Date Received: 12.07.2020 08:33

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144492 Date Prep: 12.10.2020 08:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716821

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00172	0.00200	0.000408	mg/L	12.10.2020 17:04	J	1
Toluene	108-88-3	0.00160	0.00200	0.000367	mg/L	12.10.2020 17:04	J	1
Ethylbenzene	100-41-4	0.000960	0.00200	0.000657	mg/L	12.10.2020 17:04	J	1
m_p-Xylenes	179601-23-1	0.00113	0.00400	0.000630	mg/L	12.10.2020 17:04	J	1
o-Xylene	95-47-6	0.000960	0.00200	0.000642	mg/L	12.10.2020 17:04	J	1
Xylenes, Total	1330-20-7	0.002090		0.0006300	mg/L	12.10.2020 17:04		
Total BTEX		0.006370		0.0003670	mg/L	12.10.2020 17:04		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	189	70 - 130	%		**
4-Bromofluorobenzene	117	70 - 130	%		



Certificate of Analytical Results

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Talon LPE-Artesia, Artesia, NM

Plains Moore To Jal 2

Sample Id: **MW-22** Matrix: Water Sample Depth:

Lab Sample Id: 679989-007 Date Collected: 12.04.2020 10:10 Date Received: 12.07.2020 08:33

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144492 Date Prep: 12.10.2020 08:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716821

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00149	0.00200	0.000408	mg/L	12.10.2020 17:30	J	1
Toluene	108-88-3	0.00128	0.00200	0.000367	mg/L	12.10.2020 17:30	J	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	12.10.2020 17:30	U	1
m_p-Xylenes	179601-23-1	0.000680	0.00400	0.000630	mg/L	12.10.2020 17:30	J	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	12.10.2020 17:30	U	1
Xylenes, Total	1330-20-7	0.0006800		0.0006300	mg/L	12.10.2020 17:30	J	
Total BTEX		0.003450		0.0003670	mg/L	12.10.2020 17:30		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	196	70 - 130	%		**
4-Bromofluorobenzene	118	70 - 130	%		

Sample Id: **MW-11** Matrix: Water Sample Depth:

Lab Sample Id: 679989-008 Date Collected: 12.02.2020 13:35 Date Received: 12.07.2020 08:33

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144492 Date Prep: 12.10.2020 08:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716821

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00133	0.00200	0.000408	mg/L	12.10.2020 17:56	J	1
Toluene	108-88-3	0.00101	0.00200	0.000367	mg/L	12.10.2020 17:56	J	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	12.10.2020 17:56	U	1
m_p-Xylenes	179601-23-1	0.000740	0.00400	0.000630	mg/L	12.10.2020 17:56	J	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	12.10.2020 17:56	U	1
Xylenes, Total	1330-20-7	0.0007400		0.0006300	mg/L	12.10.2020 17:56	J	
Total BTEX		0.003080		0.0003670	mg/L	12.10.2020 17:56		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	170	70 - 130	%		**
4-Bromofluorobenzene	127	70 - 130	%		



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Talon LPE-Artesia, Artesia, NM

Plains Moore To Jal 2

Sample Id: **MW-12** Matrix: Water Sample Depth:

Lab Sample Id: 679989-009 Date Collected: 12.02.2020 14:25 Date Received: 12.07.2020 08:33

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144492 Date Prep: 12.10.2020 08:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716821

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.000910	0.00200	0.000408	mg/L	12.10.2020 18:22	J	1
Toluene	108-88-3	0.00158	0.00200	0.000367	mg/L	12.10.2020 18:22	J	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	12.10.2020 18:22	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	12.10.2020 18:22	U	1
o-Xylene	95-47-6	0.000840	0.00200	0.000642	mg/L	12.10.2020 18:22	J	1
Xylenes, Total	1330-20-7	0.0008400		0.0006300	mg/L	12.10.2020 18:22	J	
Total BTEX		0.003330		0.0003670	mg/L	12.10.2020 18:22		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	168	70 - 130	%		**
4-Bromofluorobenzene	121	70 - 130	%		

Sample Id: **MW-13** Matrix: Water Sample Depth:

Lab Sample Id: 679989-010 Date Collected: 12.02.2020 15:25 Date Received: 12.07.2020 08:33

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144492 Date Prep: 12.10.2020 08:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716821

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00119	0.00200	0.000408	mg/L	12.10.2020 18:48	J	1
Toluene	108-88-3	0.00103	0.00200	0.000367	mg/L	12.10.2020 18:48	J	1
Ethylbenzene	100-41-4	0.00109	0.00200	0.000657	mg/L	12.10.2020 18:48	J	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	12.10.2020 18:48	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	12.10.2020 18:48	U	1
Xylenes, Total	1330-20-7	<0.0006300		0.0006300	mg/L	12.10.2020 18:48	U	
Total BTEX		0.003310		0.0003670	mg/L	12.10.2020 18:48		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	169	70 - 130	%		**
4-Bromofluorobenzene	114	70 - 130	%		



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Talon LPE-Artesia, Artesia, NM

Plains Moore To Jal 2

Sample Id: **MW-8** Matrix: Water Sample Depth:

Lab Sample Id: 679989-011 Date Collected: 12.02.2020 10:15 Date Received: 12.07.2020 08:33

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144492 Date Prep: 12.10.2020 08:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716821

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00121	0.00200	0.000408	mg/L	12.10.2020 20:31	J	1
Toluene	108-88-3	0.00125	0.00200	0.000367	mg/L	12.10.2020 20:31	J	1
Ethylbenzene	100-41-4	0.000890	0.00200	0.000657	mg/L	12.10.2020 20:31	J	1
m_p-Xylenes	179601-23-1	0.00150	0.00400	0.000630	mg/L	12.10.2020 20:31	J	1
o-Xylene	95-47-6	0.00132	0.00200	0.000642	mg/L	12.10.2020 20:31	J	1
Xylenes, Total	1330-20-7	0.002820		0.0006300	mg/L	12.10.2020 20:31		
Total BTEX		0.006170		0.0003670	mg/L	12.10.2020 20:31		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	92	70 - 130	%		
4-Bromofluorobenzene	134	70 - 130	%		**

Sample Id: **MW-3 A** Matrix: Water Sample Depth:

Lab Sample Id: 679989-012 Date Collected: 12.04.2020 13:40 Date Received: 12.07.2020 08:33

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144492 Date Prep: 12.10.2020 08:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716821

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00110	0.00200	0.000408	mg/L	12.10.2020 20:57	J	1
Toluene	108-88-3	0.00102	0.00200	0.000367	mg/L	12.10.2020 20:57	J	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	12.10.2020 20:57	U	1
m_p-Xylenes	179601-23-1	0.00104	0.00400	0.000630	mg/L	12.10.2020 20:57	J	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	12.10.2020 20:57	U	1
Xylenes, Total	1330-20-7	0.001040		0.0006300	mg/L	12.10.2020 20:57	J	
Total BTEX		0.003160		0.0003670	mg/L	12.10.2020 20:57		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	180	70 - 130	%		**
4-Bromofluorobenzene	111	70 - 130	%		



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Talon LPE-Artesia, Artesia, NM

Plains Moore To Jal 2

Sample Id: **MW-9** Matrix: Water Sample Depth:

Lab Sample Id: 679989-013 Date Collected: 12.04.2020 12:50 Date Received: 12.07.2020 08:33

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144492 Date Prep: 12.10.2020 08:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716821

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.154	0.00200	0.000408	mg/L	12.10.2020 21:23		1
Toluene	108-88-3	0.00175	0.00200	0.000367	mg/L	12.10.2020 21:23	J	1
Ethylbenzene	100-41-4	0.0359	0.00200	0.000657	mg/L	12.10.2020 21:23		1
m_p-Xylenes	179601-23-1	0.0212	0.00400	0.000630	mg/L	12.10.2020 21:23		1
o-Xylene	95-47-6	0.0189	0.00200	0.000642	mg/L	12.10.2020 21:23		1
Xylenes, Total	1330-20-7	0.04010		0.0006300	mg/L	12.10.2020 21:23		
Total BTEX		0.2318		0.0003670	mg/L	12.10.2020 21:23		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	194	70 - 130	%		**
4-Bromofluorobenzene	113	70 - 130	%		

Sample Id: **MW-10** Matrix: Water Sample Depth:

Lab Sample Id: 679989-014 Date Collected: 12.04.2020 11:00 Date Received: 12.07.2020 08:33

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144538 Date Prep: 12.10.2020 15:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716864

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.000590	0.00200	0.000408	mg/L	12.11.2020 10:42	J	1
Toluene	108-88-3	0.000720	0.00200	0.000367	mg/L	12.11.2020 10:42	JF	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	12.11.2020 10:42	U	1
m_p-Xylenes	179601-23-1	0.000870	0.00400	0.000630	mg/L	12.11.2020 10:42	J	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	12.11.2020 10:42	U	1
Xylenes, Total	1330-20-7	0.0008700		0.0006300	mg/L	12.11.2020 10:42	J	
Total BTEX		0.002180		0.0003670	mg/L	12.11.2020 10:42		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	101	70 - 130	%		
4-Bromofluorobenzene	142	70 - 130	%		**



Certificate of Analytical Results

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Talon LPE-Artesia, Artesia, NM

Plains Moore To Jal 2

Sample Id: **MW-5** Matrix: Water Sample Depth:

Lab Sample Id: 679989-015 Date Collected: 12.05.2020 12:15 Date Received: 12.07.2020 08:33

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144492 Date Prep: 12.10.2020 08:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716821

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00589	0.00200	0.000408	mg/L	12.10.2020 22:15		1
Toluene	108-88-3	0.00904	0.00200	0.000367	mg/L	12.10.2020 22:15		1
Ethylbenzene	100-41-4	0.00160	0.00200	0.000657	mg/L	12.10.2020 22:15	J	1
m_p-Xylenes	179601-23-1	0.00340	0.00400	0.000630	mg/L	12.10.2020 22:15	J	1
o-Xylene	95-47-6	0.00241	0.00200	0.000642	mg/L	12.10.2020 22:15		1
Xylenes, Total	1330-20-7	0.005810		0.0006300	mg/L	12.10.2020 22:15		
Total BTEX		0.02234		0.0003670	mg/L	12.10.2020 22:15		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	164	70 - 130	%		**
4-Bromofluorobenzene	133	70 - 130	%		**

Sample Id: **MW-7** Matrix: Water Sample Depth:

Lab Sample Id: 679989-016 Date Collected: 12.04.2020 14:35 Date Received: 12.07.2020 08:33

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144492 Date Prep: 12.10.2020 08:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716821

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00675	0.00200	0.000408	mg/L	12.10.2020 22:41		1
Toluene	108-88-3	0.00382	0.00200	0.000367	mg/L	12.10.2020 22:41		1
Ethylbenzene	100-41-4	0.000810	0.00200	0.000657	mg/L	12.10.2020 22:41	J	1
m_p-Xylenes	179601-23-1	0.00182	0.00400	0.000630	mg/L	12.10.2020 22:41	J	1
o-Xylene	95-47-6	0.00150	0.00200	0.000642	mg/L	12.10.2020 22:41	J	1
Xylenes, Total	1330-20-7	0.003320		0.0006300	mg/L	12.10.2020 22:41		
Total BTEX		0.01470		0.0003670	mg/L	12.10.2020 22:41		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	183	70 - 130	%		**
4-Bromofluorobenzene	121	70 - 130	%		**



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Talon LPE-Artesia, Artesia, NM

Plains Moore To Jal 2

Sample Id: **MW-4 A** Matrix: Water Sample Depth:

Lab Sample Id: 679989-017 Date Collected: 12.04.2020 09:35 Date Received: 12.07.2020 08:33

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144492 Date Prep: 12.10.2020 08:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716821

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00102	0.00200	0.000408	mg/L	12.10.2020 23:07	J	1
Toluene	108-88-3	0.000660	0.00200	0.000367	mg/L	12.10.2020 23:07	J	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	12.10.2020 23:07	U	1
m_p-Xylenes	179601-23-1	0.000960	0.00400	0.000630	mg/L	12.10.2020 23:07	J	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	12.10.2020 23:07	U	1
Xylenes, Total	1330-20-7	0.0009600		0.0006300	mg/L	12.10.2020 23:07	J	
Total BTEX		0.002640		0.0003670	mg/L	12.10.2020 23:07		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	142	70 - 130	%		**
4-Bromofluorobenzene	125	70 - 130	%		

Sample Id: **MW-6** Matrix: Water Sample Depth:

Lab Sample Id: 679989-018 Date Collected: 12.05.2020 11:15 Date Received: 12.07.2020 08:33

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144492 Date Prep: 12.10.2020 08:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716821

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.0656	0.00200	0.000408	mg/L	12.10.2020 23:32		1
Toluene	108-88-3	0.0217	0.00200	0.000367	mg/L	12.10.2020 23:32		1
Ethylbenzene	100-41-4	0.00288	0.00200	0.000657	mg/L	12.10.2020 23:32		1
m_p-Xylenes	179601-23-1	0.0159	0.00400	0.000630	mg/L	12.10.2020 23:32		1
o-Xylene	95-47-6	0.0130	0.00200	0.000642	mg/L	12.10.2020 23:32		1
Xylenes, Total	1330-20-7	0.02890		0.0006300	mg/L	12.10.2020 23:32		
Total BTEX		0.1191		0.0003670	mg/L	12.10.2020 23:32		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	183	70 - 130	%		**
4-Bromofluorobenzene	125	70 - 130	%		



Certificate of Analytical Results

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Talon LPE-Artesia, Artesia, NM

Plains Moore To Jal 2

Sample Id: **7716761-1-BLK** Matrix: Water Sample Depth:

Lab Sample Id: 7716761-1-BLK Date Collected: Date Received:

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144379 Date Prep: 12.09.2020 12:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716761

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	12.09.2020 17:26	U	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	12.09.2020 17:26	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	12.09.2020 17:26	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	12.09.2020 17:26	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	12.09.2020 17:26	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	84	70 - 130	%		
4-Bromofluorobenzene	91	70 - 130	%		

Sample Id: **7716821-1-BLK** Matrix: Water Sample Depth:

Lab Sample Id: 7716821-1-BLK Date Collected: Date Received:

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144492 Date Prep: 12.10.2020 08:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716821

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	12.10.2020 14:02	U	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	12.10.2020 14:02	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	12.10.2020 14:02	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	12.10.2020 14:02	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	12.10.2020 14:02	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	94	70 - 130	%		
4-Bromofluorobenzene	96	70 - 130	%		



Certificate of Analytical Results

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Talon LPE-Artesia, Artesia, NM

Plains Moore To Jal 2

Sample Id: **7716864-1-BLK** Matrix: Water Sample Depth:

Lab Sample Id: 7716864-1-BLK Date Collected: Date Received:

Analytical Method: BTEX by EPA 8021 Prep Method: 5030B

Analyst: MNR % Moist:

Seq Number: 3144538 Date Prep: 12.10.2020 15:00 Tech: MNR

Subcontractor: SUB: T104704400-20-21 Prep seq: 7716864

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000408	0.00200	0.000408	mg/L	12.11.2020 04:42	U	1
Toluene	108-88-3	<0.000367	0.00200	0.000367	mg/L	12.11.2020 04:42	U	1
Ethylbenzene	100-41-4	<0.000657	0.00200	0.000657	mg/L	12.11.2020 04:42	U	1
m_p-Xylenes	179601-23-1	<0.000630	0.00400	0.000630	mg/L	12.11.2020 04:42	U	1
o-Xylene	95-47-6	<0.000642	0.00200	0.000642	mg/L	12.11.2020 04:42	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	90	70 - 130	%		
4-Bromofluorobenzene	105	70 - 130	%		



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Form 2 - Surrogate Recoveries

Project Name: Plains Moore To Jal 2

Report Date: 12142020

Work Orders : 679989

Project ID: 700376 045 04

Lab Batch #: 3144379

Sample: 7716761-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 12.09.2020 14:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0379	0.0300	126	70-130	
4-Bromofluorobenzene	0.0311	0.0300	104	70-130	

Lab Batch #: 3144379

Sample: 7716761-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 12.09.2020 15:17

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0399	0.0300	133	70-130	**
4-Bromofluorobenzene	0.0336	0.0300	112	70-130	

Lab Batch #: 3144379

Sample: 679910-011 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 12.09.2020 15:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0450	0.0300	150	70-130	**
4-Bromofluorobenzene	0.0337	0.0300	112	70-130	

Lab Batch #: 3144379

Sample: 679910-011 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 12.09.2020 16:09

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0431	0.0300	144	70-130	**
4-Bromofluorobenzene	0.0320	0.0300	107	70-130	

Lab Batch #: 3144379

Sample: 7716761-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 12.09.2020 17:26

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0252	0.0300	84	70-130	
4-Bromofluorobenzene	0.0272	0.0300	91	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Plains Moore To Jal 2

Report Date: 12142020

Work Orders : 679989

Project ID: 700376 045 04

Lab Batch #: 3144492

Sample: 7716821-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 12.10.2020 11:26

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0414	0.0300	138	70-130	**
4-Bromofluorobenzene	0.0310	0.0300	103	70-130	

Lab Batch #: 3144492

Sample: 7716821-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 12.10.2020 11:52

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0475	0.0300	158	70-130	**
4-Bromofluorobenzene	0.0336	0.0300	112	70-130	

Lab Batch #: 3144492

Sample: 679910-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 12.10.2020 12:18

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0457	0.0300	152	70-130	**
4-Bromofluorobenzene	0.0351	0.0300	117	70-130	

Lab Batch #: 3144492

Sample: 679910-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 12.10.2020 12:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0498	0.0300	166	70-130	**
4-Bromofluorobenzene	0.0341	0.0300	114	70-130	

Lab Batch #: 3144492

Sample: 7716821-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 12.10.2020 14:02

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0281	0.0300	94	70-130	
4-Bromofluorobenzene	0.0287	0.0300	96	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Plains Moore To Jal 2

Report Date: 12142020

Work Orders : 679989

Project ID: 700376 045 04

Lab Batch #: 3144538

Sample: 7716864-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 12.11.2020 02:07

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0442	0.0300	147	70-130	**
4-Bromofluorobenzene	0.0355	0.0300	118	70-130	

Lab Batch #: 3144538

Sample: 7716864-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 12.11.2020 02:33

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0490	0.0300	163	70-130	**
4-Bromofluorobenzene	0.0398	0.0300	133	70-130	**

Lab Batch #: 3144538

Sample: 680330-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 12.11.2020 02:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0480	0.0300	160	70-130	**
4-Bromofluorobenzene	0.0360	0.0300	120	70-130	

Lab Batch #: 3144538

Sample: 680330-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 12.11.2020 03:25

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0453	0.0300	151	70-130	**
4-Bromofluorobenzene	0.0390	0.0300	130	70-130	

Lab Batch #: 3144538

Sample: 7716864-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 12.11.2020 04:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0271	0.0300	90	70-130	
4-Bromofluorobenzene	0.0315	0.0300	105	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries

Project Name: Plains Moore To Jal 2

Work Order #: 679989

Project ID: 700376 045 04

Analyst: MNR

Date Prepared: 12.09.2020

Date Analyzed: 12.09.2020

Lab Batch ID: 3144379

Sample: 7716761-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000408	0.100	0.09530	95	0.100	0.09990	100	5	70-130	25	
Toluene	<0.000367	0.100	0.09590	96	0.100	0.1030	103	7	70-130	25	
Ethylbenzene	<0.000657	0.100	0.09510	95	0.100	0.09960	100	5	70-130	25	
m_p-Xylenes	<0.000630	0.200	0.1920	96	0.200	0.2120	106	10	70-130	25	
o-Xylene	<0.000642	0.100	0.09740	97	0.100	0.1130	113	15	70-130	25	

Analyst: MNR

Date Prepared: 12.10.2020

Date Analyzed: 12.10.2020

Lab Batch ID: 3144492

Sample: 7716821-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000408	0.100	0.09570	96	0.100	0.1040	104	8	70-130	25	
Toluene	<0.000367	0.100	0.1020	102	0.100	0.1070	107	5	70-130	25	
Ethylbenzene	<0.000657	0.100	0.1030	103	0.100	0.1080	108	5	70-130	25	
m_p-Xylenes	<0.000630	0.200	0.2130	107	0.200	0.2220	111	4	70-130	25	
o-Xylene	<0.000642	0.100	0.1060	106	0.100	0.1110	111	5	70-130	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries

Project Name: Plains Moore To Jal 2

Work Order #: 679989

Project ID: 700376 045 04

Analyst: MNR

Date Prepared: 12.10.2020

Date Analyzed: 12.11.2020

Lab Batch ID: 3144538

Sample: 7716864-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000408	0.100	0.1070	107	0.100	0.09350	94	13	70-130	25	
Toluene	<0.000367	0.100	0.1120	112	0.100	0.08130	81	32	70-130	25	F
Ethylbenzene	<0.000657	0.100	0.1100	110	0.100	0.09000	90	20	70-130	25	
m_p-Xylenes	<0.000630	0.200	0.2230	112	0.200	0.1850	93	19	70-130	25	
o-Xylene	<0.000642	0.100	0.1110	111	0.100	0.09830	98	12	70-130	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries



Project Name: Plains Moore To Jal 2

Work Order #: 679989

Lab Batch ID: 3144379

Date Analyzed: 12.09.2020

Reporting Units: mg/L

QC- Sample ID: 679910-011 S

Date Prepared: 12.09.2020

Report Date: 12142020

Project ID: 700376 045 04

Batch #: 1 Matrix: Water

Analyst: MNR

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	0.00124	0.100	0.102	101	0.100	0.100	99	2	70-130	25	
Toluene	0.000700	0.100	0.103	102	0.100	0.0869	86	17	70-130	25	
Ethylbenzene	0.000870	0.100	0.104	103	0.100	0.0986	98	5	70-130	25	
m_p-Xylenes	0.000920	0.200	0.212	106	0.200	0.203	101	4	70-130	25	
o-Xylene	<0.000642	0.100	0.109	109	0.100	0.103	103	6	70-130	25	

Lab Batch ID: 3144492

QC- Sample ID: 679910-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 12.10.2020

Date Prepared: 12.10.2020

Analyst: MNR

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	0.00103	0.100	0.0996	99	0.100	0.105	104	5	70-130	25	
Toluene	0.00160	0.100	0.0973	96	0.100	0.103	101	6	70-130	25	
Ethylbenzene	0.00100	0.100	0.0948	94	0.100	0.0991	98	4	70-130	25	
m_p-Xylenes	0.00137	0.200	0.195	97	0.200	0.203	101	4	70-130	25	
o-Xylene	<0.000642	0.100	0.100	100	0.100	0.101	101	1	70-130	25	

Matrix Spike Percent Recovery $[D] = 100 * (C - A) / B$
 Relative Percent Difference $RPD = 200 * |(C - F) / (C + F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries



Project Name: Plains Moore To Jal 2

Work Order #: 679989

Lab Batch ID: 3144538

Date Analyzed: 12.11.2020

Reporting Units: mg/L

QC- Sample ID: 680330-001 S

Date Prepared: 12.10.2020

Report Date: 12142020

Project ID: 700376 045 04

Batch #: 1 Matrix: Water

Analyst: MNR

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000408	0.100	0.112	112	0.100	0.110	110	2	70-130	25	
Toluene	<0.000367	0.100	0.0939	94	0.100	0.112	112	18	70-130	25	
Ethylbenzene	<0.000657	0.100	0.108	108	0.100	0.111	111	3	70-130	25	
m_p-Xylenes	<0.000630	0.200	0.221	111	0.200	0.228	114	3	70-130	25	
o-Xylene	<0.000642	0.100	0.112	112	0.100	0.115	115	3	70-130	25	

Matrix Spike Percent Recovery $[D] = 100 \times (C - A) / B$
 Relative Percent Difference $RPD = 200 \times |(C - F) / (C + F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Chain of Custody

Work Order No: 1679989

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Corsado, NM (432) 704-5440
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

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Project Manager:	DAVID ADKINS	Bill to: (if different)	PIPIANS All American
Company Name:	TALON PIPE	Company Name:	PIPELINE
Address:	408 TEXAS STREET	Address:	ATL CANILLE BAYANT
City, State ZIP:	ARRESIA New Mexico 88210	City, State ZIP:	SEASIDE 2002-10273
Phone:	575 441 4835	Email:	ADKINS@TALONPIPE.COM

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level: I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADAPT ☐ Other:

Project Name:	PIPIANS All American	Turn Around	
Project Number:	700376 045 04	Routine	☒
Project Location:	Hobbs New Mexico	Rush:	
Sampler's Name:	DIV R.B. AR	Due Date:	
PO #:	SEA#2002 10273	Quote #:	

SAMPLE RECEIPT	Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐
Temperature (°C):	2.0 / 1.8	Thermometer ID		
Received Intact:	Yes ☒ No ☐	Correction Factor:	7-104-007	
Cooler Custody Seals:	Yes ☒ No ☐	Total Containers:	18	
Sample Custody Seals:	Yes ☒ No ☐			

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number	ANALYSIS REQUEST										Preservative Codes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Total 200.7 / 6010 200.8 / 6020:

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

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Pb Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Bill Rapp	Joe Duffin	12.12.0833			
		2			
		4			
		6			



Chain of Custody

Work Order No: 679989

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 El Paso, TX (915) 565-3443 Lubbock, TX (806) 794-1296 Casabad, NM (432) 704-5440
Phoenix, AZ (480) 555-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-67

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Phoenix, AZ (480) 355-0900		Atlanta, GA (770) 449-8800		Tampa, FL (813) 620-2000		West Palm Beach, FL	
Project Manager:				DAVID ADAMS			
Company Name:				TALON LPE			
Address:				408 TEXAS STREET			
City, State ZIP:				ALBUQUERQUE, NM 87101			
Phone:				505 441 4835			
Project Name:				Pipes Buy & Sell			
Bill to: (if different)				DAVID ADAMS			
Company Name:				P. P. P. P.			
Address:				ATTN: CAMILLE FORBANT			
City, State ZIP:				585 # 2002-10273			
Email:				DADAMS@TALONLPE.COM			

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 ☐ ADaPT ☐ Other:	

Project Number:	710326 045 04	Turn Around
Project Location:	Hobbs New Mexico	☒ Routine
Sampler's Name:	Dir RB 16R	Rush:
PO #:	5802-2002-10273	Quote #:
		Due Date:

SAMPLE RECEIPT	Temp Blank:		Yes	No	Wet Ice:	Yes	No
Temperature (°C)	Thermometer ID						
Received Intact:	Yes	No	See Page 1				
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:			
Sample Custody Seals:	Yes	No	N/A	Total Containers:			

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
	MU-8	GW	12-2-20	10:15	
	MU-3A	GW	12-4-20	1:40 PM	
	MU-9	GW	12-4-20	12:50 PM	
	MU-10	GW	12-4-20	1 PM	
	MU-5	GW	12-5-20	12:15 PM	
	MU-7	GW	12-4-20	2:35 PM	
	MU-4A	GW	12-4-20	9:35 AM	
	MU-6	GW	12-5-20	11:54	

[illegible]

Total 200.7 / 6010 200.8 / 6020:

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

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 Na Sr Ti Sn U V Zn
 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
 1631 / 245.1 / 7470

1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Paul Hogg</i>	<i>Clare Cuffe</i>	12.7.20 2833			

Inter-Office Shipment

IOS Number : **74384**

Date/Time: 12.07.2020

Created by: Cloe Clifton

Please send report to: Jessica Kramer

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: **Midland**

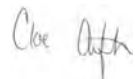
Air Bill No.:

E-Mail: jessica.kramer@eurofinset.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
679989-001	W	MW-21 A	12.02.2020 08:40	SW8021B	BTEX by EPA 8021	12.11.2020	12.16.2020	JKR	BR4FBZ BZ BZME EBZ	
679989-002	W	MW-20	12.02.2020 09:10	SW8021B	BTEX by EPA 8021	12.11.2020	12.16.2020	JKR	BR4FBZ BZ BZME EBZ	
679989-003	W	MW-19	12.02.2020 10:10	SW8021B	BTEX by EPA 8021	12.11.2020	12.16.2020	JKR	BR4FBZ BZ BZME EBZ	
679989-004	W	MW-18	12.02.2020 11:15	SW8021B	BTEX by EPA 8021	12.11.2020	12.16.2020	JKR	BR4FBZ BZ BZME EBZ	
679989-005	W	MW-17	12.02.2020 12:15	SW8021B	BTEX by EPA 8021	12.11.2020	12.16.2020	JKR	BR4FBZ BZ BZME EBZ	
679989-006	W	MW-23	12.04.2020 10:00	SW8021B	BTEX by EPA 8021	12.11.2020	12.18.2020	JKR	BR4FBZ BZ BZME EBZ	
679989-007	W	MW-22	12.04.2020 10:10	SW8021B	BTEX by EPA 8021	12.11.2020	12.18.2020	JKR	BR4FBZ BZ BZME EBZ	
679989-008	W	MW-11	12.02.2020 13:35	SW8021B	BTEX by EPA 8021	12.11.2020	12.16.2020	JKR	BR4FBZ BZ BZME EBZ	
679989-009	W	MW-12	12.02.2020 14:25	SW8021B	BTEX by EPA 8021	12.11.2020	12.16.2020	JKR	BR4FBZ BZ BZME EBZ	
679989-010	W	MW-13	12.02.2020 15:25	SW8021B	BTEX by EPA 8021	12.11.2020	12.16.2020	JKR	BR4FBZ BZ BZME EBZ	
679989-011	W	MW-8	12.02.2020 10:15	SW8021B	BTEX by EPA 8021	12.11.2020	12.16.2020	JKR	BR4FBZ BZ BZME EBZ	
679989-012	W	MW-3 A	12.04.2020 13:40	SW8021B	BTEX by EPA 8021	12.11.2020	12.18.2020	JKR	BR4FBZ BZ BZME EBZ	
679989-013	W	MW-9	12.04.2020 12:50	SW8021B	BTEX by EPA 8021	12.11.2020	12.18.2020	JKR	BR4FBZ BZ BZME EBZ	
679989-014	W	MW-10	12.04.2020 11:00	SW8021B	BTEX by EPA 8021	12.11.2020	12.18.2020	JKR	BR4FBZ BZ BZME EBZ	
679989-015	W	MW-5	12.05.2020 12:15	SW8021B	BTEX by EPA 8021	12.11.2020	12.19.2020	JKR	BR4FBZ BZ BZME EBZ	
679989-016	W	MW-7	12.04.2020 14:35	SW8021B	BTEX by EPA 8021	12.11.2020	12.18.2020	JKR	BR4FBZ BZ BZME EBZ	
679989-017	W	MW-4 A	12.04.2020 09:35	SW8021B	BTEX by EPA 8021	12.11.2020	12.18.2020	JKR	BR4FBZ BZ BZME EBZ	
679989-018	W	MW-6	12.05.2020 11:15	SW8021B	BTEX by EPA 8021	12.11.2020	12.19.2020	JKR	BR4FBZ BZ BZME EBZ	

Inter Office Shipment or Sample Comments:

Relinquished By:



Cloe Clifton

Date Relinquished: 12.07.2020

Received By:



Jessica Kramer

Date Received: 12.08.2020

Cooler Temperature: 1.2

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 74384

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sent By: Cloe Clifton

Date Sent: 12.07.2020 03.25 PM

Received By: Jessica Kramer

Date Received: 12.08.2020 02.11 PM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 *Custody Seals Signed and dated for Containers/coolers	Yes
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Jessica Kramer

Jessica Kramer

Date: 12.08.2020

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Talon LPE-Artesia

Date/ Time Received: 12.07.2020 08.33.00 AM

Work Order #: 679989

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.8
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Yes
#18 Water VOC samples have zero headspace?	Yes

Samples sent to Midland.

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 12.07.2020

Checklist reviewed by:



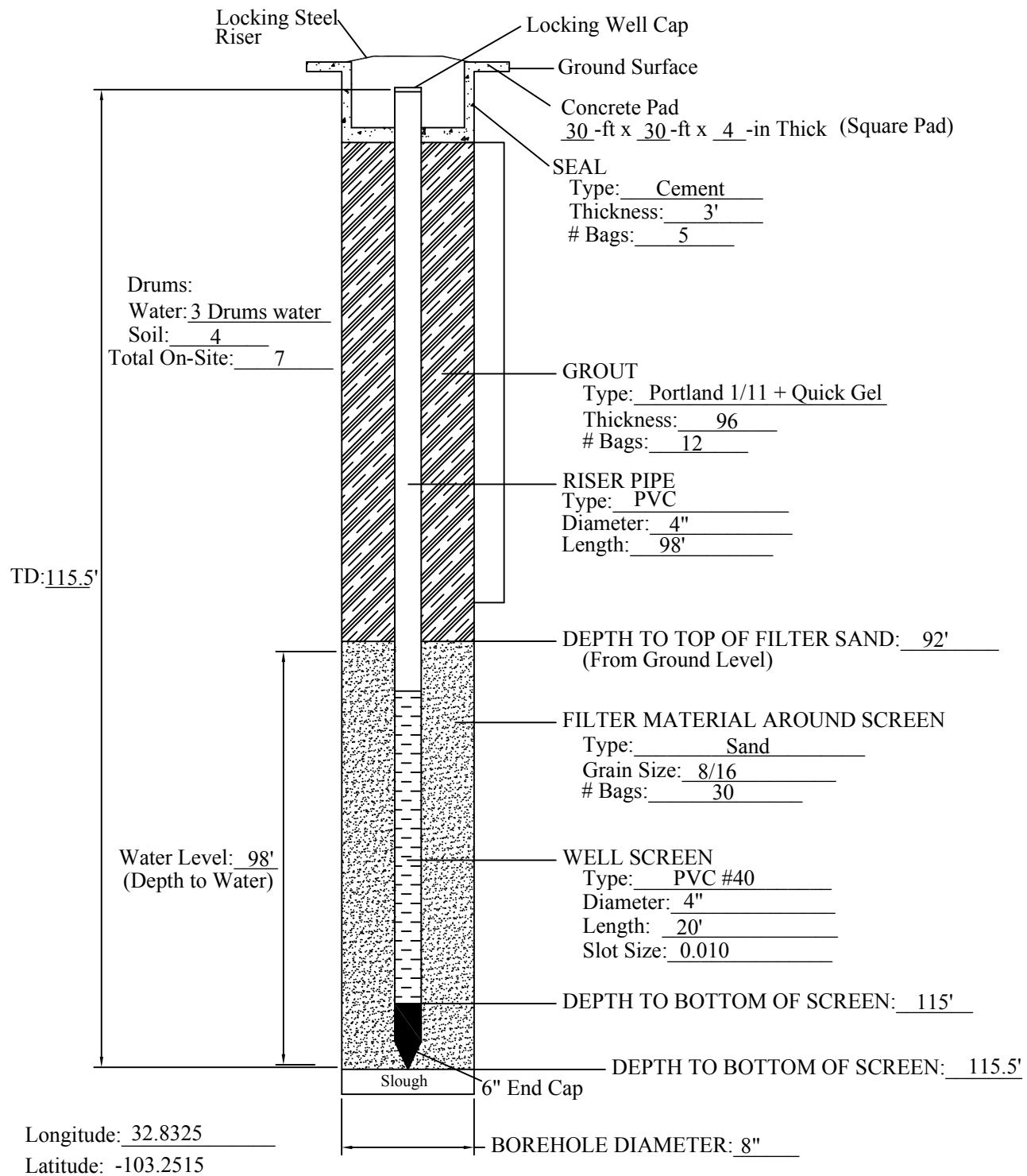
Jessica Kramer

Date: 12.07.2020

APPENDIX D

Well Completion Details

MONITORING WELL DETAIL

MW # MW-21ASupervisor: R. PonsDriller: Jose SalasDate: 9-2-2020Project No.: 702836.001.01Facility Name: MJ2 Monitor Well 21ALocation: Moore to Jal #2

District I

1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 23703

CONDITIONS

Operator: PLAINS MARKETING L.P. 333 Clay St, Ste 1600 Houston, TX 77002	OGRID:
	34053
	Action Number: 23703
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2020 ANNUAL GROUNDWATER MONITORING REPORT: Content satisfactory Contractor recommendations approved and are as follows; 1. Continue operation and maintenance of the groundwater recovery system 2. Perform quarterly groundwater monitoring events in accordance with NMOCD directives 3. OCD approves discontinuing sampling for PAH in groundwater monitoring wells MW-3A, MW-4A, MW-7, MW-8, MW-9, MW-18, MW-22 and MW-23. 4. OCD will approve sampling termination from monitoring wells that have exhibited no evidence of contamination above regulatory limits for eight (8) consecutive quarters 5. OCD approves wells MW-11, MW-17, MW-18, MW-19, and MW-20 be sampled on a semi-annual basis 6. Submit annual report to OCD no later than March 31,2022.	1/11/2022