2022 GROUNDWATER REMEDIATION AND MONITORING ANNUAL REPORT

January – December 2022

Property:

Bloomfield Terminal
Western Refining Southwest LLC
#50 Rd 4990
Bloomfield, New Mexico 87413

US EPA ID: NMD089416416
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May 15, 2023

Prepared for:

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2022 GROUNDWATER REMEDIATION AND MONITORING ANNUAL REPORT EXECUTIVE SUMMARY

This Annual Report includes a summary of the monitoring activities conducted at the Bloomfield Terminal (former Bloomfield Refinery) during the semiannual monitoring event in April 2022 and the annual event in August, during low-flow conditions of the San Juan River, 2022 pursuant to the reporting requirements outlined in Section IV.A.2. of the July 2007 Consent Order (NMED, 2007) issued by the New Mexico Environment Department Hazardous Waste Bureau (NMED-HWB), and Section 2.F. of Discharge Permit GW-001 (NMOCD, 2017) issued by the New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (EMNRD-OCD). Monitoring activities are performed in accordance with the July 2007 Consent Order to monitor or assess potential impacts related to Interim Status Unit No. 1, Solid Waste Management Units (SWMUs) No. 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, and 27, and Areas of Concern (AOCs) No. 19, 20, 21, 22, 23, 24, 25, 26. The following is a summary of groundwater and surface water monitoring, total fluids recovery, and remediation monitoring activities conducted in 2022 that were performed following the *Facility-Wide Groundwater Monitoring Plan* (Western, June 2020) and the *Discharge Permit GW-001 for Western Refining Southwest LLC, Bloomfield Products Terminal* (State of New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division, July 2022).

Groundwater and Surface Water Monitoring

Fluid Levels

In April 2022 and August 2022, depth-to-groundwater and depth-to-separate phase hydrocarbon (SPH) measurements were collected from the facility monitoring wells (MW), recovery wells (RW), observation wells (OW), collection wells (CW), sump wells (SW), measuring point wells (MP), air sparge wells (AS), and vapor extraction wells (VEW). The depth measurements were collected a minimum of 48 hours after the recovery well pumps were turned off to allow fluid elevations to stabilize. Groundwater elevation contours from both the April and August gauging events show that groundwater generally flows to the northwest towards the North Boundary Barrier Wall and Hammond Ditch collection system.

In April 2022, measurable SPH was detected at 22 monitoring locations: MW-55, MW-56, MW-57, MW-58, MW-71, MW-72, MW-77, RW-2, P-2/RW-4, RW-14, RW-15, RW-16, RW-19, RW-28, RW-43, CW 8+45, CW 11+15, MP-1, MP-2, MP-3, MP-4, and MP-5. The maximum measured SPH thickness was 1.43 feet in RW-19. Measurements were not obtained from MW-11, MW-61, MW-65, RW-18, and SW7-0206 during the April gauging event due to inaccessibility.

In August 2022, SPH was detected at 24 monitoring locations: MW-40, MW-41, MW-55, MW-56, MW-57, MW-66, MW-71, MW-72, MW-77, RW-2, P-2/RW-4, RW-14, RW-15, RW-16, RW-22, RW-28, RW-43, CW 8+45, CW 11+15, and MP-1 through MP-5. The maximum measured SPH thickness was 1.39 feet in MP-4. Monitoring locations MW-11, MW-61, MW-65, RW-18, and RW-42 were inaccessible and not measured.

An overall reduction in SPH thickness was recorded in wells MW-54, MW-58, MW-71, RW-16, RW-18, RW-22, and CW 8+45 from August 2021 to August 2022. In addition, wells MW-20, MW-26, MW-75, RW-1, and RW-09, which historically contained measurable SPH prior to 2021, continued to contain no measurable SPH in August 2022. However, over this timeframe, several

wells exhibited increasing SPH thickness including MW-40, MW-41, MW-56, MW-66, RW-14, RW-15, RW-28, RW-43, MW-71, MW-72, MW-77, RW-02, RW-04/P02, RW-16, RW-22, RW-43, MP-1, MP-3, and MP-5. SPH thickness in wells MW-55, MW-72, RW-02, RW-04/P-02, RW-19, CW 11+15, MP-1, MP-2, MP-4 were static from August 2021 to August 2022. SPH thickness has varied across the Terminal as it is impacted by the total fluids recovery system uptime and the pumping rates at various locations. Both increases and decreases in measured SPH from August 2021 to August 2022 are likely attributed to individual recovery well performance as well as overall total fluids recovery system performance throughout the year.

According to the Interstate Technology & Regulatory Council (ITRC), SPH thickness in monitoring wells is not necessarily equal to thicknesses in the formation and is dependent upon a number of factors. “Due to the dependance of in-well” SPH “thickness on geology and variable groundwater hydraulics, it should not generally be used as a sole metric for recoverability and indication of migration” (ITRC, 2018).

Groundwater and Surface Water Sampling

During the semiannual event conducted in April 2022, samples were collected for field parameter screening and laboratory analysis from a subset of wells and surface water locations including:

- Monitoring wells and recovery wells;
- Collection and observation wells; and
- San Juan River surface water sample locations.

During the annual event conducted in August 2022, groundwater and surface water samples with field parameters were collected throughout the Bloomfield Terminal in the following areas:

- Terminal Complex – includes terminal, cross-gradient, down-gradient, and Resource Conservation and Recovery Act (RCRA) wells;
- North Boundary Barrier – includes observation and collection wells;
- San Juan River Bluff – includes outfall and seep locations; and
- San Juan River surface water sample locations.

The specific wells sampled during the April semiannual and August annual events are listed in **Section 2.3.** Groundwater samples collected during 2022 events were analyzed for one or more of the following methods:

Analysis	Analytical Method
Volatile Organic Compounds-Target List	EPA Method 8260B
Total Petroleum Hydrocarbons-DRO	EPA Method 8015D
Total Petroleum Hydrocarbons-MRO	EPA Method 8015D
Total Petroleum Hydrocarbons-GRO	EPA Method 8015B

Analysis	Analytical Method
Semi-Volatile Organic Compounds	EPA Method 8270C
Alkalinity/Carbon Dioxide	EPA Method 310.1
Anions	EPA Method 300.0
Total Dissolved Solids	Standard Method SM2540C MOD[1]
Total Recoverable Metals-Target List	EPA Methods 200.7/200.8/245.1[2]

Notes:
DRO – diesel range organics
MRO – motor oil range organics
GRO – gasoline range organics
EPA – U.S. Environmental Protection Agency
[1] TDS was analyzed using Standard Method SM2540C MOD versus the Plan-approved analysis of EPA Method 160.1. This will be corrected to match the approved Plan during subsequent monitoring events.
[2] Total Recovery Metals – Target List were analyzed using EPA Methods 200.7/200.8/245.1 versus the Plan-approved analyses of EPA Method 6010 and EPA Method 7470. This will be corrected to match the approved Plan during subsequent monitoring events.

Groundwater and surface water sample results for both the April semiannual and August annual sampling events are summarized in **Tables 3 through 10.** Analyte concentration trends and changes are summarized in **Section 3**. Results and recommendations for the River Terrace portion of the facility are outlined in the *River Terrace Annual Report Voluntary Bioventing/Air Sparging System* (Ensolum, 2023).

Organic COC concentrations are highest in the vicinity of former refinery processing units and concentrations have exhibited generally stable or decreasing trends across the Terminal with the exception of terminal wells MW-40, MW-4 and MW-30, downgradient well MW-11, RCRA well MW-59, collection well CW 0+60 and observation wells OW 11+15 and OW 16+60.

The slurry wall spanning the north and west boundaries of the Terminal continues to effectively prevent migration of contaminants to the San Juan River-side of the barrier; however, increasing concentration trends have been observed at observation wells OW 11+15 and OW 16+60, as noted above. Western will focus total fluids recovery system repairs and maintenance efforts on recovery wells RW-23 and RW-28, located in the vicinity of OW16+60 and OW 11+15, respectively, and will evaluate whether increased system operation in those two locations affects concentrations during the 2023 monitoring events.

Additional details regarding COC trends across the Terminal are provided in **Section 6.1**.

Seep Inspections and Outfall sampling

Along the San Juan River bluff, weekly visual inspections of Seeps 1, 2, 3, 5, and the outfall north of Tank 38 (Jungle Seep) were conducted in 2022. The Jungle Seep was the only seep exhibiting flow in 2022 and no hydrocarbon odor or sheen was observed at the seep throughout the year. In April 2022, East Outfall #2 was observed to be dry. No other outfall inspections were recorded in 2022.

Total Fluids Recovery Systems

The Bloomfield Terminal operates and monitors several fluid recovery systems within the facility, which include:

- Recovery well network;
- North boundary barrier collection system;
- Hammond Ditch;
- River Terrace pump-and-treat system; and
- East outfall recovery system.

The Terminal operates a total fluids pumping system used to recover SPH and hydrocarbon impacted groundwater for treatment and disposal. This is accomplished by using a combination of electric submersible pumps, pneumatic submersible pumps, and SPH skimming pumps to extract SPH and groundwater and transfer it to the on-site API separator for SPH recovery. Following separation, the extracted groundwater is pumped through the WWTS prior to disposal through either on-site injection through the Terminal's permitted injection well or via evaporation. The total fluids pumping system was operational in 2022; however, several aging components led to individual well downtime throughout the year.

Several repairs have been made to the various components of the Total Fluids Recovery System in early 2023 and a summary will be provided in the 2023 annual report. Repairs continue to be made throughout the year, in order to increase system performance and optimize SPH recovery across the Terminal. Once the majority of components are operational, an evaluation of overall system and individual well performance will be performed in order to determine if SPH has been recovered to the maximum extent practicable in certain locations across the Terminal. Recommendations to cease pumping in certain locations, if deemed to be warranted, will be presented in the 2023 annual report for agency review and approval.

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LIST OF ACRONYMS AND ABBREVIATIONS

API	American Petroleum Institute
BTEX	benzene, toluene, ethylbenzene, and total xylenes
BV	biovent well
CO	carbon monoxide
COCs	contaminants of concern
DW	dewatering well
DRO	diesel range organics
DO	dissolved oxygen
EPA	U.S. Environmental Protection Agency
GAC	granulated activated carbon
GRO	gasoline range organics
HEAL	Hall Environmental Analysis Laboratory
H_2S	hydrogen sulfide
MCL	maximum contaminant level
µg/L	micrograms per liter
MTBE	methyl tert-butyl ether
mg/L	milligrams per liter
MW	monitoring well
MRO	motor oil range organics
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NMED-HWB	New Mexico Environment Department Hazardous Waste Bureau
NMWQCC	New Mexico Water Quality Control Commission
O&M	operations & maintenance
ORP	oxidation reduction potential
RSLs	regional screening levels
SPH	separate phase hydrocarbons
SWMU	Solid Waste Management Unit
Terminal	The Bloomfield Terminal
TPH	total petroleum hydrocarbon
WWTS	wastewater treatment system

2022 Groundwater Remediation and Monitoring Annual Report

US EPA ID: NMD089416416

1.0 INTRODUCTION

This report documents groundwater remediation and monitoring activities conducted in 2022 at the Bloomfield Terminal, referred to hereinafter as the "Terminal", and was prepared in accordance with the reporting requirements outlined in Section IV.A.2. of the July 2007 Consent Order issued by the NMED-HWB and Section 2.F. of Discharge Permit GW-001 by the EMNDR-OCD. Groundwater monitoring and remediation activity related to the River Terrace portion of the Terminal is discussed in a separate report as it is overlying an alluvial aquifer that is hydraulically disconnected from the main Terminal, which is located on a bluff approximately 120 feet above the San Juan River and is overlying the perched Jackson aquifer. Groundwater monitoring was performed according to the *Facility-Wide Groundwater Monitoring Plan* (Western, June 2020) that was prepared pursuant to the terms and conditions of the July 2007 Consent Order issued by the NMED to San Juan Refining Company and Giant Industries Arizona, Inc. and the *Discharge Permit GW-001 for Western Refining Southwest LLC, Bloomfield Products Terminal* (State of New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division, July 2022). The purpose of the facility-wide groundwater monitoring is to characterize the nature and extent of potential impacts to groundwater related to the Terminal. Results of the facility-wide monitoring are submitted to the NMED in an annual report by April 15th of each year.

1.1 Site Description

Owner:	Western Refining Southwest LLC (Formerly Giant Industries Arizona, Inc.), an Arizona Corporation
Operator:	Western Refining Southwest LLC (Formerly Giant Industries Arizona, Inc.), an Arizona Corporation
Site Name:	Bloomfield Terminal (Former Bloomfield Refinery)
US EPA ID:	NMD089416416
Location:	50 Road 4990 Bloomfield, New Mexico 87413

The Terminal, formerly known as the Bloomfield Refinery, is currently owned by San Juan Refining Company, a New Mexico corporation, and operated by Western Refining Southwest LLC. (Western), formerly known as Giant Industries Arizona, Inc. The Bloomfield Refinery was closed in 2009 and transitioned into a bulk fuels terminal. The history of the facilities operations and improvements are provided in **Appendix A**.

Currently, the Terminal is a crude oil and petroleum product transfer and storage facility that includes truck loading and unloading. The Terminal stores and transfers crude oil, petroleum products (e.g., naphtha, unleaded gasoline, diesel, and kerosene), and ethanol and is used to transfer petroleum products between pipelines, trucks, and storage tanks. Crude oil and petroleum products arrive by pipeline or tank trucks. The tank farm is a system of storage tanks used throughout the Terminal to hold and store crude oil, petroleum products, fuel additives, and water. These tanks are located above ground and range in size from 110,000 barrels to less than 1,000 barrels. Pumps, valves, and piping systems are used throughout the Terminal to transfer various liquids between tanks and loading racks. Several tank truck loading racks are used to

load out petroleum products and receive crude oil and gasoline additives.

The Terminal property occupies approximately 263 acres and is located south of Bloomfield, New Mexico in San Juan County (**Figure 1**). The Terminal property is bisected by San Juan County Road 4990 (Sullivan Road), which runs east-west (**Figure 2**).

The portion of the Terminal with petroleum product processing equipment, storage tanks, and associated infrastructure is located on a bluff 120 feet above the south side of the San Juan River. Based on the available site-specific and regional subsurface information, the Terminal is underlain by the Quaternary Jackson Lake terrace deposits, which unconformably overlie the Tertiary Nacimiento Formation. The Jackson Lake deposits consist of fine-grained sand, silt, and clay that grades to coarse sand, gravel, and cobble size material closer to the contact with the Nacimiento Formation. The Jackson Lake Formation is over 40 feet thick near the southeast portion of the Terminal and generally thins to the northwest toward the San Juan River. The Nacimiento Formation is primarily composed of fine-grained materials (e.g., carbonaceous mudstone/claystone with interbedded sandstones) with a reported local thickness of approximately 570 feet (Groundwater Technology, 1994).

2.0 GROUNDWATER AND SURFACE WATER MONITORING ACTIVITIES

The following is a summary of monitoring activities conducted at the Terminal during the April 2022 semiannual and August 2022 annual monitoring events. Monitoring activities consisted of collecting fluid level measurements, water quality parameters, groundwater and surface water samples for laboratory analysis, and flow observations at seeps/outfalls. Monitoring activities conducted in April 2022 and August 2022 followed the guidelines outlined in the *Facility-Wide Groundwater Monitoring Plan* dated June 2020. **Figure 2** shows all groundwater monitoring locations at the Terminal. **Figures 3** and **4** show the locations of monitoring wells sampled in April and August 2022, respectively. **Figure 5** shows the locations of the surface water sample locations and seep/outfall observation locations.

2.1 Fluid Level Measurements

Fluid level measurements, including depth-to-groundwater and depth-to-SPH, were collected on April 11, 2022 for the semiannual event and on August 11 and August 12, 2022 for the annual event. Measurements were collected from the facility monitoring wells, recovery wells, observation wells, and collection wells using an interface probe with an accuracy of 0.01 feet. Fluid levels were measured a minimum of 48 hours after the recovery well pumps were turned off to allow the groundwater elevation to return to static conditions, with the exception of the pump in well RW-42 which remained operational throughout the annual monitoring event. This will be corrected during future monitoring events and all pumps will be shut down and removed prior to collecting fluid level measurements. Fluid levels were collected from all planned locations except the following due to lack of access: P-03 in April, RW-42 in August, and MW-11, MW-61, and RW-18 in both April and August. In addition, MW-65 could not be located in April and was noted as destroyed in August. Fluid level measurements are summarized in **Table 1**. Groundwater elevation contours are displayed on **Figures 6** and **7** for the April and August 2022 sampling events, respectively. Groundwater at the Terminal flows generally to the northwest.

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2.2 Groundwater and Surface Water Field Parameters and Sample Collection

After gauging, the monitoring wells required for sampling on the monitoring plan were purged of approximately three well volumes using a peristaltic pump, when sufficient water was present. During purging, field parameters including temperature, pH, conductivity, ORP, turbidity, and DO were collected when purging was initiated and every 5 minutes until purging was complete using a calibrated water quality meter. These field parameters were also collected at surface water locations during sample collection. Field parameters are summarized in **Table 2**. Purge water was temporarily contained in a 250--gallon tote before being discharged to the facility wastewater treatment system.

After purging, samples were collected into laboratory-provided sample containers. Groundwater samples were not collected from wells where either measurable SPH or a sheen was observed. Containers were labeled with the sample location identification, sample date, and sample time in accordance with relevant testing methodology. Samples were immediately placed on ice and remained chilled until delivery to HEAL under chain-of-custody procedures and within the required hold times

Groundwater and surface water samples were analyzed via one or more of the following laboratory methods:

Analysis	Analytical Method
Volatile Organic Compounds-Target List	EPA Method 8260B
Total Petroleum Hydrocarbons-DRO	EPA Method 8015D
Total Petroleum Hydrocarbons-MRO	EPA Method 8015D
Total Petroleum Hydrocarbons-GRO	EPA Method 8015D
Semi-Volatile Organic Compounds	EPA Method 8270C
Alkalinity/Carbon Dioxide	EPA Method 310.1
Anions	EPA Method 300.0
Total Dissolved Solids	Standard Method SM2540C MOD
Total Recoverable Metals-Target List	EPA Methods 200.7/200.8/245.1

Analyses are directed by the approved sampling plan, however; during the 2022 sampling events, total metals were analyzed by a combination of EPA Method 200.7, EPA Method 200.8, and EPA Method 245.1 which are the laboratory's default methods, as specific analyses were not requested on the chains-of-custody. The methods used are close in nature to EPA Method 6010 and EPA Method 7470 and similar, if not the same results should be reported. Similarly, no analysis was specified for total dissolved solids and Standard Method SM2540C MOD was used versus the Plan-approved EPA Method 160.1. Western will ensure that the methods listed above are dictated on the chains-of-custody during future sampling events.

The groundwater and surface water locations sampled during the April semiannual and August annual sampling events are listed below. Field paperwork including notes, gauging forms, field parameter logs, sample collection logs, and sample chains of custody are included as **Appendix B**.

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2.3 Groundwater and Surface Water Sample Locations

April 2022 Sample Locations

During the April 2022 semiannual sampling event, groundwater and surface water samples were collected for laboratory analysis from the following locations:

Terminal Complex Area

- Terminal Well: MW-52;
- Cross-gradient Wells: MW-1, MW-13, and MW-33; and
- Downgradient Wells: MW-12 and MW-37
- Samples were not collected from terminal wells MW-20 or MW-30 due to a sheen observed during purging.

Background well MW-6 and downgradient well MW-35 were dry and could not be sampled. Downgradient well MW-38 contained insufficient water for sampling.

Northern Boundary Barrier Area

- Collection Wells: CW 0+60, CW 25+95; and
- Observation Wells: OW 16+60, OW 22+00, and OW 25+70.

Observation wells OW 0+60, OW 1+50, OW 5+50, OW 6+70, OW 8+10, OW 14+10, OW 19+50, OW 23+10, OW 23+90 were dry or contained insufficient water and could not be sampled.

Samples could not be collected from OW 3+85 or OW 11+15 due to a sheen observed during purging.

San Juan River Surface Water Samples

April 2022 semiannual San Juan River surface water samples (**Figure 5**) were collected from the following locations:

- Upstream, north of MW-45, north of MW-46, and downstream.

August 2022 Annual Sampling Event Sample Locations

During the August 2022 annual sampling event, groundwater and surface water samples were collected for laboratory analysis from the following locations:

Terminal Complex

- Terminal Wells: MW-4, MW-29, MW-31, MW-44, and MW-52;
- Cross-Gradient Wells: MW-1, MW-13, MW-26, MW-27, MW-32, and MW-33;
- Downgradient Wells: MW-12, MW-34, MW-35, MW-37, and MW-38; and
- RCRA Investigation Wells: MW-51, MW-53, MW-59, MW-62, MW-63, MW-64, MW-67, MW-68, MW-73, MW-76, and MW-78.

Background wells MW-3, MW-5, and MW-6 and RCRA well MW-69 were dry and could not be sampled. RCRA wells MW-60 and MW-70 contained insufficient water for sampling.

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Samples could not be collected from terminal wells RW-01, RW-09, RW-15, MW-20, MW-21, RW-23, RW-28, MW-30, MW-40, and RW-43 or RCRA wells MW-54, MW-55, MW-56, MW-57, MW-58, MW-66, MW-71, MW-72, MW-74 MW-75, and MW-77 due to either the presence of measurable SPH or a sheen observed during purging.

Terminal well RW-18 and RCRA well MW-61 were inaccessible during the August 2022 sampling event and terminal well RW-42 could not be sampled due to an active pump running within the well.

A sample could not be collected from downgradient well MW-11 due to a wasp nest within the well casing. The nest will be removed prior to the April 2023 semiannual event.

RCRA well MW-65 has been destroyed.

Northern Boundary Barrier Area

- Collection Wells: CW 0+60, CW 25+95; and
- Observation Wells: OW 0+60, OW 16+60, OW 22+00, OW 23+10, and OW 25+70.

Observation wells OW 1+50, OW 5+50, OW 6+70, OW 8+10, OW 14+10, OW 19+50, OW 23+90 were dry or contained insufficient water and could not be sampled.

Samples could not be collected from OW 3+85 or OW 11+15 due to a sheen observed during purging.

San Juan River Samples

San Juan River surface water samples were collected from the following locations: Upstream, north of MW-45, north of MW-46, and downstream.

2.4 San Juan River Bluff Seep and Outfall Monitoring Activities

San Juan River Bluff sampling includes the collection of water samples from East Outfall #1 and East Outfall #2 along the eastern portion of the facility, and from seeps 1,2, 3, and 5 located along the western portion of the facility when sufficient water is flowing. A seep located northeast of Tank #38 known as “Jungle Seep” is inspected visually on a weekly basis but is not included in the monitoring plan. In 2022, weekly visual inspections of Seeps 1, 2, 3, 5 and “Jungle Seep” (located northeast of Tank #38) were completed.

Seeps 1, 2, 3, and 5, were observed to be dry in 2022, and therefore no samples were collected for laboratory analysis. East Outfall #2 was observed to be dry in April 2022 and was not inspected in August 2022. East Outfall #1 was not inspected in 2022. The weekly inspection field forms for the seeps and outfalls are provided as **Appendix B**. Historical seep analytical results are summarized in **Tables 9.**

No outfalls were sampled during 2022. Historical outfall analytical results are summarized in **Tables 8**.

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3.0 GROUNDWATER AND SURFACE WATER MONITORING RESULTS SUMMARY

3.1 Fluid Levels and Spearate Phase Hydrocarbons

Depth-to-water and depth-to-SPH field measurements collected in April and August 2022 were used to calculate SPH thickness in areas where SPH was present.

In April 2022, SPH was detected at 22 monitoring locations: MW-55, MW-56, MW-57, MW-58, MW-71, MW-72, MW-77, RW-2, P-2/RW-4, RW-14, RW-15, RW-16, RW-19, RW-28, RW-43, CW 8+45, CW 11+15, and MP-1 through MP-5. The maximum measured SPH thickness was 1.43 feet in RW-19. Measurements were not obtained from MW-11, MW-61, MW-65, RW-18, and SW7-0206 during the April monitoring event due to access issues.

In August 2022, SPH was detected at 24 monitoring locations: MW-40, MW-41, MW-55, MW-56, MW-57, MW-66, MW-71, MW-72, MW-77, RW-2, P-2/RW-4, RW-14, RW-15, RW-16, RW-22, RW-28, RW-43, CW 8+45, CW 11+15, and MP-1 through MP-5. The maximum measured SPH thickness was 1.39 feet in MP-4. Measurements were not obtained at MW-11, MW-61, MW-65, RW-18, and RW-42 due to access issues.

Fluid level measurements are summarized in **Table 1**. Groundwater elevation contour maps for the April and August 2022 sampling events are provided as **Figures 6** and **7,** respectively. Measured SPH thicknesses from the April and August 2022 monitoring events are depicted on **Figures 8** and **9**, respectively.

3.2 Groundwater and Surface Water Sample Analytical Results

Laboratory analytical results from the April and August 2022 monitoring events were compared to the most conservative of either the EPA MCLs and the NMWQCC as published in 20.6.3 NMAC, 2002 NMWQCC standard. For analytes without an EPA MCL or NMWQCC standard, the EPA RSL for tap water were used to evaluate results (EPA, 2021). Groundwater sample results for TPH-GRO, TPH-DRO, and TPH-MRO were compared to groundwater screening levels in Table 6-4 of *NMED Risk Guidance for Site Investigations and Remediation* (NMED, 2021) (TPH screening level). Laboratory analytical reports from the 2022 sampling events are included in **Appendix C.**

Concentration maps were prepared depicting the semiannual and annual analytical results for a subset of COCs. BTEX concentration distribution for the April and August 2022 monitoring events are depicted on **Figures 10 and 11**, respectively. Naphthalene concentrations for the April and August 2022 monitoring event are depicted on **Figure 12.** TPH concentrations for the April and August 2022 monitoring events are depicted on **Figures 13 and 14**. TDS concentrations for the April and August 2022 monitoring events are depicted on **Figure 15**.

3.2.1 April 2022 Analytical Results

Analytical results from the April 2022 monitoring event with detections above the applicable standards are summarized below.

Total Dissolved Solids Results

Seven out of the 14 groundwater and surface water locations (MW-52, MW-13, MW-33, MW-37, CW 0+60, CW 25+95, OW 25-70) exceeded the NMAC screening level for TDS (1,000 mg/L).

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TDS results ranged from 217 mg/L (Upstream) to 3,780 mg/L (MW-52). TDS screening results for all locations are summarized in **Table 2**.

Cross-Gradient Wells

- **MW-1 and MW-33** exceeded the TPH screening level (0.0167 mg/L) for TPH-DRO at concentrations of 0.098 mg/L and 0.061 mg/L, respectively.

The cross-gradient well analytical results are summarized in **Tables 4**.

Downgradient Wells

- **MW-37** exceeded the TPH screening level (0.0167 mg/L) for TPH-DRO at a concentration of 0.13 mg/L.

The downgradient well analytical results are summarized in **Tables 5**.

Collection and Observation Wells

- **CW 0+60** exceeded the applicable screening levels for the following compounds:
  - 1-methylnaphthalene at a concentration of 23 micrograms per liter (µg/L) versus a screening level of 11.4 µg/L
  - 2-methylnaphthalene at a concentration of 46 µg/L versus a screening level of 35.1 µg/L
  - Naphthalene at a concentration of 130 µg/L versus a screening level of 1.17 µg/L
  - n-propylbenzene at a concentration of 110 µg/L versus a screening level of 66 µg/L
  - TPH-DRO at a concentration of 2.5 mg/L versus a screening level of 0.0167 mg/L
- **CW 25+95** exceeded the TPH-DRO screening level at a concentration of 0.071 mg/L.
- **OW 22+00** exceeded the TPH-DRO screening level with a concentration of 0.1 mg/L.
- **OW 25+70** exceeded the TPH-DRO and TPH-GRO screening levels with concentrations of 0.072 mg/L and 0.073 mg/L, respectively.

The collection and observation well analytical results are summarized in **Tables 7**.

San Juan River Surface Water Samples

- **Upstream** exceeded the TPH-DRO screening level at a concentration of 0.076 mg/L.
  North of MW-45 exceeded the TPH-DRO screening level at a concentration of 0.033 J mg/L.
- **North of MW-46** exceeded the TPH-DRO screening level at a concentration of 0.027 J mg/L.
- **Downstream** exceeded the TPH-DRO screening level at a concentration of 0.026 J mg/L.

Laboratory analytical results from the April 2022 monitoring event combined nitrate and nitrite into a single value, rather than reporting them separately, for the samples submitted from Upstream, North of MW-45, North of MW-46, and Downstream. Due to the combined result presented in the laboratory report, nitrate and nitrite values are not reported in the tables for these locations. This will be corrected during future monitoring events.

The San Juan River Surface Water Samples are summarized in **Tables 10**.

3.2.2 August 2022 Analytical Results

Analytical results from the August 2022 monitoring event above the applicable standards are summarized below.

Total Dissolved Solids Results

Twenty-seven out of the 36 groundwater and surface water locations (MW-4, MW-29, MW-31, MW-44, MW-52, MW-13, MW-26, MW-27, MW-32, MW-33, MW-34, MW-35, MW-37, MW-53, MW-59, MW-62, MW-64, MW-67, MW-73, MW-76, MW-78, CW 0+60, CW 25+95, OW 0+60, OW 16+60, OW 22+00, and OW 25+70) exceeded the NMAC screening level (1,000 mg/L) for TDS. TDS results ranged from 240 mg/L (Downstream) to 6,460 mg/L (MW-27). TDS results are summarized in **Table 2**.

Terminal Wells

- **MW-4** exceeded the applicable screening levels for the following compounds:
  - Benzene at a concentration of 7.7 µg/L.
  - 1-methylnaphthalene at a concentration of 16 µg/L.
  - Naphthalene at a concentration of 55 µg/L.
  - 1,2,4-trimethylbenzene at a concentration of 73 55 µg/, versus a screening level of 5.6 µg/L.
  - 1,3,5-trimethylbenzene at a concentration of 17 µg/L, versus a screening level of 6.0 µg/L.
  - TPH-DRO at a concentration of 2.2 mg/L.
  - TPH-GRO at a concentration of 1.0 mg/L.
  - Chloride at a concentration of 280 mg/L, versus a screening level of 250 mg/L.
  - Total barium at a concentration of 2.3 mg/L, versus a screening level of 2.0 mg/L.
  - Dissolved barium at a concentration of 2.4 mg/L, versus a screening level of 2.0 mg/L.
  - Dissolved iron at a concentration of 7.0 mg/L, versus a screening level of 1.0 mg/L.
  - Dissolved manganese at a concentration of 1.4 mg/L, versus a screening level of 0.2 mg/L.
- **MW-29** exceeded the applicable screening levels for the following compounds (this sample was a field duplicate and the highest result for each compound between the parent and field duplicate sample are stated below):
  - TPH-DRO at a concentration of 0.10 mg/L.
  - Chloride at a concentration of 320 mg/L.
  - Nitrate at a concentration of 28 mg/L, versus a screening level of 10 mg/L.
  - Sulfate at a concentration of 850 mg/L, versus a screening level of 600 mg/L.
  - Dissolved manganese at a concentration of 0.76 mg/L.
- **MW-31** exceeded the applicable screening levels for the following compounds:
  - Benzene at a concentration of 33 µg/L.
  - Naphthalene at a concentration of 5.5 µg/L.
  - TPH-DRO at a concentration of 1.5 mg/L.
  - TPH-GRO at a concentration of 0.36 mg/L.

  - TPH-MRO at a concentration of 0.94 mg/L.
  - Dissolved manganese at a concentration of 0.34 mg/L.
- **MW-44** exceeded the applicable screening levels for the following compounds:
  - TPH-DRO at a concentration of 0.072 mg/L.
  - Sulfate at a concentration of 2700 mg/L.
  - Dissolved manganese at a concentration of 1.8 mg/L.
- **MW-52** exceeded the applicable screening levels for the following compounds:
  - TPH-DRO at a concentration of 0.098 mg/L.
  - Chloride at a concentration of 560 mg/L.
  - Nitrate at a concentration of 44 mg/L.
  - Sulfate at a concentration of 1400 mg/L.
  - Total selenium at a concentration of 0.056 mg/L, versus a screening level of 0.05 mg/L.
  - Dissolved selenium at a concentration of 0.059 mg/L, versus a screening level of 0.05 mg/L.

The terminal wells analytical results are summarized in **Tables 3**.

Cross-gradient Wells

- **MW-1** exceeded the applicable screening level for TPH at a conentration of 0.036 mg/L.
- **MW-13** exceeded the applicable screening levels for the following compounds:
  - TPH-DRO at a concentration of 0.21 mg/L.
  - Sulfate at a concentration of 990 mg/L.
  - Total chromium at a concentration of 0.076 mg/L, versus a screening level of 0.05 mg/L.
  - Dissolved manganese at a concentration of 0.75 mg/L.
- **MW-26** exceeded the applicable screening levels for the following compounds:
  - 1-methylnaphthalene at a concentration of 23 µg/L.
  - Naphthalene at a concentration of 87 µg/L.
  - TPH-DRO at a concentration of 2.0 mg/L.
  - TPH-GRO at a concentration of 0.47 mg/L.
  - Dissolved iron at a concentration of 3.2 mg/L.
  - Dissolved manganese at a concentration of 2.1 mg/L.
- **MW-27** exceeded the applicable screening levels for the following compounds:
  - TPH-DRO at a concentration of 0.25 mg/L.
  - TPH-MRO at a concentration of 0.15 mg/L.
  - Chloride at a concentration of 1,300 mg/L.
  - Sulfate at a concentration of 2,500 mg/L.
  - Dissolved Uranium at a concentration of 0.061 mg/L, versus a screening level of 0.03 mg/L.
- **MW-32** exceeded the applicable screening levels for the following compounds:
  - Naphthalene at a concentration of 1.5 J µg/L.
  - TPH-DRO at a concentration of 0.048 J mg/L.
  - Chloride at a concentration of 760 mg/L.
  - Sulfate at a concentration of 1,900 mg/L.
- **MW-33** exceed the applicable screenling level for the following compounds:
  - Nitrate at a concentration of 24 mg/L
  - Sulfate at a concentration of 1,800 mg/L.

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The cross-gradient wells analytical results are summarized in **Tables 4**.

Downgradient Wells

- **MW-12** exceeded the applicable screening level for total chromium at a concentration of 0.060 mg/L.
- **MW-34** exceeded the applicable screening levels for the following compounds (this sample was a field duplicate and the highest result for each compound between the parent and field duplicate sample are stated below):
  - TPH-DRO at a concentration of 0.37 mg/L.
  - TPH-GRO at a concentration of 0.17 mg/L.
  - Sulfate at a concentration of 650 mg/L.
  - Dissolved iron at a concentration of 3.6 mg/L.
  - Dissolved manganese at a concentration of 5.3 mg/L.
- **MW-35** exceeded the applicable screening levels for the following compounds:
  - TPH-DRO at a concentration of 0.30 mg/L
  - TPH-GRO at a concentration of 0.20 mg/L
  - Chloride at a concentration of 260 mg/L.
  - Dissolved iron at a concentration of 1.1 mg/L.
  - Dissolved manganese at a concentration of 3.2 mg/L.
- **MW-37** exceeded the applicable screening levels for the following compounds:
  - TPH-DRO at a concentration of 0.073 mg/L.
  - Chloride at a concentration of 270 mg/L.
  - Sulfate at a concentration of 2,100 mg/L.
  - Dissolved manganese at a concentration of 3.2 mg/L.
- **MW-38** exceeded the applicable screening levels for the following compounds:
  - TPH-DRO at a concentration of 0.19 mg/L.
  - TPH-GRO at a concentration of 0.012 J mg/L.
  - Dissolved iron at a concentration of 1.2 mg/L.
  - Dissolved manganese at a concentration of 2.3 mg/L.

The downgradient well analytical results are summarized in **Tables 5**.

RCRA Wells

- **MW-51** exceeded the applicable screening levels for the following compounds:
  - TPH-DRO at a concentration of 0.11 mg/L.
  - TPH-MRO at a concentration of 0.10 mg/L.
  - Dissolved manganese at a concentration of 2.6 mg/L.
- **MW-53** exceeded the applicable screening levels for the following compounds:
  - TPH-DRO at a concentration of 0.10 mg/L.
  - Chloride at a concentration of 790 mg/L.
  - Nitrate at a concentration of 25 mg/L.
  - Sulfate at a concentration of 980 mg/L.
- **MW-59** exceeded the applicable screening levels for the following compounds:
  - MBTE at a concnetration of 850 µg/L.
  - TPH-DRO at a concentration of 0.50 mg/L.
  - TPH-GRO at a concentration of 0.85 mg/L.
  - Chloride at a concentration of 280 mg/L

  - Nitrate at a concentration of 27 mg/L.
  - Sulfate at a concentration of 990 mg/L.
  - Dissolved manganese at a concentration of 0.77 mg/L.
- **MW-62** exceeded the applicable screening levels for the following compounds:
  - TPH-DRO at a concentration of 0.020 J mg/L.
  - Sulfate at a concentration of 3,500 mg/L.
  - Dissolved manganese at a concentration of 1.0 mg/L.
- **MW-63** exceeded the applicable screening level for dissolved uranium at a concentration of 0.033 mg/L.
- **MW-64** exceeded the applicable screening levels for the following compounds:
  - TPH-DRO at a concentration of 0.074 mg/L.
  - Chloride at a concentration of 760 mg/L.
  - Nitrate at a concentration of 38 mg/L.
  - Sulfate at a concentration of 1,200 mg/L.
  - Dissolved cadmium at a concentration of 0.012 J mg/L.
  - Dissolved manganese at a concentration of 12 mg/L.
- **MW-67** exceeded the applicable screening levels for the following compounds:
  - TPH-DRO at a concentration of 0.78 mg/L.
  - TPH-MRO at a concentration of 0.11 mg/L.
  - Nitrate at a concentration of 16 mg/L.
- **MW-68** exceeded the applicable screening level for TPH-DRO at a concentration of 0.022 J.
- **MW-73** exceeded the applicable screening levels for the following compounds:
  - Benzene at a concentration of 3,700 µg/L.
  - 1-methylnaphthalene at a concentration of 59 µg/L.
  - 2-methylnaphthalene at a concentration of 76 µg/L.
  - Naphthalene at a concentration of 180 µg/L.
  - n-propylbenzene at a concentration of 120 µg/L.
  - TPH-DRO at a concentration of 3.3 mg/L.
  - TPH-GRO at a concentration of 16 mg/L.
  - Total barium at a concentration of 4.8 mg/L.
  - Dissolved barium at a concentration of 4.7 mg/L.
  - Dissolved iron at a concentration of 7 mg/L.
  - Dissolved manganese at a concentration of 0.48 mg/L.
- **MW-76** exceeded the applicable screening levels for the following compounds:
  - Benzene at a concentration of 5.9 µg/L.
  - 1-methylnaphthalene at a concentration of 110 µg/L.
  - 2-methylnaphthalene at a concentration of 160 µg/L.
  - Naphthalene at a concentration of 170 µg/L.
  - TPH-DRO at a concentration of 2.9 mg/L.
  - TPH-GRO at a concentration of 0.74 mg/L.
  - Total barium at a concentration of 3.3 mg/L.
  - Dissolved barium at a concentration of 3.0 mg/L.
  - Dissolved iron at a concentration of 8.0 mg/L.
  - Dissolved manganese at a concentration of 1.5 mg/L
- **MW-78,** installed in 2022 as a ground water monitoring compliance well for Class I (Non-Hazardous) Disposal Well UICI-011 (WDW #2), and sampled for the first time during the

August 2022 annual sampling event, exceeded the applicable screening levels for the following compounds (this sample was a field duplicate and the highest result for each compound between the parent and field duplicate sample are stated below):

- TPH-DRO at a concentration of 0.055 J mg/L
- Chloride at a concentration of 270 mg/L
- Nitrate at a concentration of 35 mg/L
- Sulfate at a concentration of 840 mg/L

The RCRA wells analytical results are summarized in **Tables 6**.

Collection and Observation Wells

- **CW 0+60** exceeded the applicable screening levels for the following compounds:
  - 1-methylnaphthalene at a concentration of 30 µg/L.
  - 2-methylnaphthalene at a concentration of 51 µg/L.
  - Naphthalene at a concentration of 160 µg/L.
  - n-propylbenzene at a concentration of 120 µg/L.
  - TPH-DRO at a concentration of 1.4 mg/L.
  - TPH-GRO at a concentration of 1.9 mg/L.
- **CW 25+95** exceeded the applicable screening levels for the following compounds:
  - TPH-DRO at a concentration of 2.6 mg/L.
  - TPH-GRO at a concentration of 1.9 mg/L.
  - TPH-MRO at a concentraiton of 0.73 mg/L.
- **OW 16+60** exceeded the applicable screening levels for the following compounds:
  - MTBE at a concentration of 370 µg/L, versus a screening level of 100 µg/L.
  - Naphthalene at a concentration of 1.4 J µg/L.
  - TPH-DRO at a concentration of 3.7 mg/L
  - TPH-GRO at a concentration of 0.81 mg/L
  - TPH-MRO at a concentration of 0.16 mg/L
- **OW 22+00** exceeded the applicable screening level for TPH-DRO at a concentration of 0.14 mg/L.
- **OW 23+10** exceeded the applicable screening levels for the following compounds:
  - TPH-DRO at a concentration of 1.4 mg/L.
  - TPH-GRO at a concentration of 1.1 mg/L.
  - TPH-MRO at a concentraiton of 0.16 mg/L.
- **OW 25+70** exceeded the applicable screening levels for the following compounds:
  - TPH-DRO at a concentration of 0.064 J mg/L.
  - TPH-GRO at a concentration of 0.030 mg/L

The collection and observation well analytical results are summarized in **Tables 7**

San Juan River Surface Water Samples

- **Upstream** exceeded the applicable screening levels for the following compounds:
  - TPH-DRO at a concentration of 0.040 J mg/L.
  - Total arsenic at a concentration of 0.014 mg/L.
  - Total barium at a concentration of 3.3 mg/L.
  - Total chromium at a concentration of 0.19 mg/L.
  - Total lead at a concentration of 0.15.

- **North of MW-45** exceeded the applicable screening level for TPH-DRO at a concentration of 0.031 J mg/L.
- **North of MW-46** exceeded the applicable screening level for TPH-DRO at a concentration of 0.023 J mg/L.
- **Downstream** exceeded the applicable screening level for TPH-DRO at a concentration of 0.058 J mg/L.

Laboratory analytical results from the August 2022 monitoring event for a subset of locations combined nitrate and nitrite into a single value, rather than reporting them separately. Due to the combined result presented in the laboratory report, nitrate and nitrite values are not reported in the tables for wells MW-13, MW-44, MW-68, MW-73, MW-76, North of MW-46, and Downstream.

The samples submitted from MW-33 or MW-63 were not analyzed for TPH-DRO and TPH-MRO as there was insufficient volume that could be collected in these locations.

Due to errors on the chain-of-custodies, SVOCs were not analyzed in the sample submitted from MW-59, anions were not analyzed in the sample submitted from MW-63, and dissolved metals were not analyzed in the sample submitted from Upstream.

The San Juan River surface water analytical results are summarized in **Table 10**.

4.0 REMEDIATION SYSTEM MONITORING

4.1 Total Fluids Recovery System Performance

The Terminal operates a total fluids pumping system used to recover SPH and hydrocarbon impacted groundwater for treatment and disposal. This is accomplished by using a combination of electric submersible pumps, pneumatic submersible pumps, and SPH skimming pumps to extract SPH and groundwater and transfer it to the on-site API separator for SPH recovery. Following separation, the extracted groundwater is pumped through the WWTS prior to disposal through either on-site injection through the Terminal's permitted injection well or via evaporation. The total fluids pumping system was operational in 2022; however, several aging components led to individual well downtime throughout the year. The wells that were intended to operate as active recovery wells in 2022 are RW-1, RW-2, RW-3, RW-4, RW-9, RW-14, RW-15, RW-16, RW-17, RW-18, RW-19, RW-22, RW-23, RW-28, RW-42, and RW-43. **Figure 2** shows the location of the recovery wells within the Bloomfield Facility.

In 2022, 14 wells (RW-2, RW-3, RW-4, RW-9, RW-15, RW-17, RW-19, RW-20, RW-22, RW-23, RW-43, MW-56, MW-57, and MW-58) operated as total fluids recovery wells. Total fluids recovery wells are equipped with pneumatic submersible pumps that actuate based on the available hydraulic head on top of the pump intake. Compressed air is supplied to the pumps via a centralized air compressor. Three wells (RW-1, RW-14, and RW-16) operated as groundwater recovery wells. The groundwater recovery wells contain electric submersible pumps that are designed to aid in hydraulic control but are not designed to process SPH. Additionally, three wells (RW-28, RW-42, and MW-55) operated as SPH recovery wells. The SPH recovery wells are equipped with pneumatic SPH-skimming pumps that are designed with a variable pump intake that floats on top of groundwater within a set three-foot interval in order to recovery free product only.

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O&M activities are performed on a weekly basis, as of October 2022, with a more in-depth O&M event being performed monthly. Quarterly O&M activities were previously performed from January to October 2022. The monthly O&M visits include the gauging of total fluids wells to determine SPH thickness, if present, the confirmation of pump intake depth and operation, and the documentation of repairs made, and repairs required during future visits. The increase in O&M frequency will further allow for more regular repairs on the aging system components in order to maximize SPH recovery and maintain hydraulic control.

The recovery well network is not equipped with individual flow meters and, therefore, an estimation of 2022 fluid recovery is not possible. A trial totalizer will be installed at one recovery well in 2023. After functionality has been confirmed and it has been determined that the make and model are appropriate for the total fluids flow rates from the individual wells, totalizers will be installed at each of the recovery locations. Due to the varying specific gravity of the total fluids recovered at each location as well as the frequent presence of air within the process stream, the totalizer readings that will be collected during future O&M events will be used for qualitative purposes rather than for quantitative purposes.

4.2 North Boundary Barrier Wall Collection System Performance

The North Boundary Barrier Wall, which was installed in April 2005, consists of a 2,700-foot long bentonite slurry wall that extends two to five feet into the Nacimiento Formation. The primary purpose of the wall is to prevent the migration of hydrocarbon-impacted groundwater and SPH towards the San Juan River. The collection system is comprised of 15 collection wells positioned along the facility-side of the barrier wall. For every collection well, there is an observation well installed along the river-side of the barrier wall. **Figure 2** shows the location of the collection wells and observation wells along the North Boundary Barrier Wall.

Depth-to-groundwater measurements collected in April 2022 and August 2022 indicate that the barrier wall continues to provide a hydraulic barrier for groundwater below the facility. Based on the data collected in both April 2022 and August 2022, six of the fourteen observation wells (OW 5+50, OW 6+70, OW 8+10, OW 14+10, OW 19+50, and OW 23+90) were dry (**Table 1**). Of the eight well pairs (i.e., observation and collection wells on opposite sides of the slurry wall) where water was present in the observation wells, the average difference in water level elevations across the slurry wall was 2.83 feet. This difference in water level elevations immediately across the slurry wall is further evidence of its continued effectiveness.

4.3 Hammond Ditch Recovery System Performance

The Hammond Ditch Recovery System serves as a hydraulic relief mechanism for groundwater that mounds along the Facility-side of the North Boundary Barrier Wall. The Hammond Ditch Recovery System consists of Recovery Tank 37, located along the western portion of the facility, and a French drain system that was constructed below the concrete-lined Hammond ditch. Groundwater recovered from the perforated sub-drain (the French drain) beneath the Hammond Irrigation Canal is conveyed to Tank 37 via two 8-inch influent lines. Tank 37 is equipped with a liquid level float control system and dedicated flow meter. Recovered water from Tank 37 is pumped through the flow meter to the API Separator. The location of Tank 37 is shown on **Figure 5**.

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All water recovered through the Hammond Ditch French drain west of the pipeline easement discharges to Tank 37. Tank 37 contents are then transferred to the API separator for product recovery. Terminal Operators inspect the operation of recovery system and Tank 37 daily and record the amount of water recovered in the tank via a flow meter located on the discharge end of the Tank 37 transfer pump. Approximately 2,775 barrels of total fluids were collected by the Hammond Ditch recovery system west of the pipeline easement throughout 2022. The total fluids recovered from installation to the end of 2022 for Tank 37 is estimated to be 24,297 barrels. Digital field data sheets with weekly totalizer readings are provided in **Appendix D.**

4.4 East Outfall Recovery System Performance

East Outfall #1 is equipped with a holding tank and automatic pumping system. Water from Outfall #1 discharges into Tank 38 directly before being pumped to the on-site WWTS. **Figure 2** shows the location of Tank 38. The flow rate of recovered water entering Tank 38 is dependent upon the operation of the Hammond Ditch, which is located just south of Tank 38.

Water recovered through the Hammond Ditch French drain east of the pipeline easement discharges through three outfalls (i.e., Outfall #1, Outfall #2, and Outfall #3). Total fluids from Outfall #1 are transferred to Tank 38 for temporary storage and, from there, transferred to the WWTS for treatment prior to disposal through the on-site injection well or the on-site evaporation ponds.

Tank 38 piping is equipped with a flow meter to measure the total gallons transferred to the WWTP. Totalizer readings are recorded on a weekly basis. Approximately 110,193 barrels of total fluids were collected by the Hammond Ditch recovery system east of the pipeline easement throughout 2022. Digital field data sheets with weekly totalizer readings are provided in **Appendix D.**

5.0 WASTE DISPOSAL

Western indefinitely suspended refining operations at the Facility on November 23, 2009. The crude unloading and product loading racks, storage tanks, and other supporting equipment remain in operation. Recovered water from on-site remediation activities and facility operations is treated through the on-site WWTS. Treated water is then disposed of through the on-site Class I injection well or discharged to the on-site evaporation ponds. In 2022, 315,379 gallons of treated water were reinjected and 9,337,621 gallons of treated water were discharged to the evaporation ponds. **Table 11** includes a summary of treated wastewater volumetric totals.

6.0 DISCUSSION

6.1 Groundwater Monitoring

Groundwater Elevation

Overall, groundwater elevation at the terminal remained relatively stable from August 2021 to August 2022; however, terminal well RW-43, downgradient well MW-38, and RCRA well MW-71 decreased in groundwater elevation from August 2021 to April 2022. In addition, cross-gradient well MW-26 exhibited a decrease in groundwater elevation between the April 2022 and August 2022 monitoring events. Groundwater elevations across the Terminal vary in proportion to the stage of the San Juan River and are lowest during low-flow conditions. Hydrographs for a

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subset of wells are included as **Appendix E**. The wells will be gauged again in April and August of 2023 and the results will be evaluated to determine the consistency of these changes.

Separate Phase Hydrocarbons

SPH thickness has varied across the Terminal as it is impacted by the total fluids recovery system uptime and the pumping rates at various locations. The SPH thickness at recovery RW-16 decreased from 1.05 feet measured in August 2021 to 0.11 feet measured in August 2022. This may be related to increased pump runtime performance; however, it was determined in fourth quarter of 2022 that the electric submersible pump installed in recovery well RW-16 was not effective in adequately removing free product to the maximum extent practicable as the pump is not designed to bring the SPH-air interface down to the pump intake, allowing the pump to run dry in the process. Evaluations are currently being performed to determine if a total fluids pneumatic pump, capable of drawing the water table down to the pump intake without risk of damage, is better suited for this location. With the absence of measurable SPH in wells RW-1 and MW-54, the plume did not extend as far west at the Terminal in 2022 as it did during both 2021 monitoring events; however, measurable SPH did extend farther east into the tank farm than during the 2021 monitoring events. This may be related to an increased performance of the total fluids recovery system at recovery well RW-1 and a decreased performance at recovery well RW-14, throughout 2022.

Historically, SPH has been observed in four general areas at the Terminal: the “Terminals Area”, the tank farm area, the former refinery process area, and along the north boundary barrier.

According to the Interstate Technology & Regulatory Council (ITRC), SPH thickness in monitoring wells is not necessarily equal to thicknesses in the formation and is dependent upon a number of factors. “Due to the dependance of in-well” SPH “thickness on geology and variable groundwater hydraulics, it should not generally be used as a sole metric for recoverability and indication of migration” (ITRC, 2018).

Terminals Area

At the “Terminals Area” located south of County Road 4990, SPH has been historically observed in two wells (MW-61 and MW-66), each installed in 2009 as part of the on-going RCRA investigation activities. Primary operations in this area include product loading and unloading, crude unloading, and product storage. SPH was not measured at either well during April 2022 gauging; however, SPH was measured in MW-66 in August 2022 at a thickness of 0.59 feet. Monitoring well MW-61 could not be accessed during the August 2022 sampling event. Prior to the August 2021 event, SPH had not been detected in this area since August 2019.

Tank Farm Area

The tank farm area is located at the eastern portion of the facility, north of County Road 4990, and includes four total fluids recovery wells (RW-14, RW-15, RW-16, and RW-17). In April 2022, SPH was observed in recovery wells RW-14 (0.05 feet), RW-15 (0.04 feet), and RW-16 (1.10 feet). In August 2022, SPH was again measured in recovery wells RW-14 (0.04 feet), RW-15 (0.15 feet), and RW-16 (0.11 feet). Prior to the 2022 monitoring event, SPH had not been observed in RW-15 since monitoring became in April 2016. SPH was not observed at recovery wells RW-17 during the April and August 2021 sampling events.

Former Refinery Process Area

The former refinery process area spans a large portion of the terminal and includes former infrastructure such as the warehouse, the crude processing unit, and units associated with the existing WWTP. Several monitoring wells located within the vicinity of the former refinery process area have a history of measurable SPH predating the suspension of refinery operations in November 2009. Wells in this vicinity with measurable SPH thicknesses in August 2022 included MW-55 (0.06 feet), MW-56 (0.20 feet) MW-57 (0.72 feet), MW-72 (0.07 feet), MW-77 (0.64 feet), RW-2 (0.67 feet), P-02/RW-4 (0.58), RW-22 (0.10 feet) and RW-28 (0.82 feet). Wells MW-54, MW-58, RW-19, which contained measurable SPH in August 2021, did not contain measurable SPH during the August 2022 event. SPH accumulation in wells located near former process units has been generally consistent since the termination of refinery operations.

Northern Boundary Barrier

In 2005, a 2,700-foot-long bentonite slurry wall was installed along the western and northern boundary of the former process area. This north boundary barrier provides hydraulic control for SPH and groundwater on the terminal-side of the Terminal. SPH thickness has not been observed on the San Juan River-side of the slurry wall since 2014. On the terminal-side of the slurry wall, no SPH was measured in any of the collection wells during the April 2022 semiannual event. During the August 2022 event, SPH was measured in collection wells CW 8+45 (0.01 feet) and CW 11+15 (0.02 feet), a decrease from the SPH recorded in the same wells in August 2021 with thicknesses previously measuring 0.51 feet and 0.04 feet, respectively.

Organic Concentration Trends

Organic COC concentrations are highest in the vicinity of former refinery processing units and concentrations have exhibited generally stable or decreasing trends across the Terminal with the following exceptions:

- Terminal Wells
  - MW-40 – All organic COCs historically exhibited stable or decreasing trends; however, SPH was observed in the well during August 2022. SPH was not measured in this location between April 2016 and April 2022.
  - MW-4 –1,2,4-trimethylbenzene concentrations exhibit an increasing trend.
  - MW-30 – TPH-GRO concentrations exhibit an increasing trend.
- Downgradient Wells
  - MW-11 – Naphthalene concentrations exhibit an overall increasing trend.
- RCRA Wells
  - MW-59 – MTBE concentrations exhibit an overall increasing trend.
  - Not enough samples have been collected from wells MW-71 through MW-78 to be able to provide definitive trend evaluations. The wells will continue to be monitored and trend updates will be provided when available.
- Collection Wells
  - CW 0+60 – TPH-GRO concentrations exhibit an increasing trend.
- Observation Wells
  - OW 11+15 – TPH-DRO, TPH-GRO, and MTBE concentrations exhibit increasing trends between 2011 and 2017; however dissolved-phase concentration trends for the past five years cannot be evaluated due to a sheen within the well preventing sample collection and analysis.

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- OW 16+60 – MTBE concentrations exhibit an increasing trend.

Time series graphs depicting the change in various organic COC concentrations over time for a subset of wells are provided as **Appendix E**.

The slurry wall spanning the north and west boundaries of the Terminal continues to effectively prevent migration of contaminants to the San Juan River-side of the barrier; however, increasing concentration trends have been observed at observation wells OW 11+15 and OW 16+60, as noted above. Western will focus total fluids recovery system repairs and maintenance efforts on recovery wells RW-23 and RW-28, located in the vicinity of OW16+60 and OW 11+15, respectively, and will evaluate whether increased system operation in those two locations has an effect on concentrations during the 2023 monitoring events.

Western will continue to monitor concentrations at RCRA well MW-59, located south of County Road 4990 near the LPG loading area, to determine whether remedial actions are warranted, as the total fluids recovery system does not extend south of the county road.

6.2 Total Fluids Recovery System Discussion and Recommendations

Several repairs have been made to the various components of the Total Fluids Recovery System in early 2023 and a summary will be provided in the 2023 annual report. Repairs continue to be made throughout the year, in order to increase system performance and optimize SPH recovery across the Terminal. Once the majority of components are operational, an evaluation of overall system and individual well performance will be performed in order to determine if SPH has been recovered to the maximum extent practicable in certain locations across the Terminal. Recommendations to cease pumping in certain locations, if deemed to be warranted, will be presented in the 2023 annual report for agency review and approval.

6.3 Sampling Plan Discussion and Recommendations

In 2022, Western recommended a revised sampling program for the Bloomfield Terminal to combine the April semiannual sampling event with the annual low-flow sampling event for a singular comprehensive event taking place in August of each year. The current groundwater monitoring program for the Terminal consists of sampling select monitoring wells and sample locations in April of each year at the Former Bloomfield Refinery Terminal Area (Terminal Area) and River Terrace locations on a semiannual frequency, with a more-comprehensive facility-wide monitoring well network sampled on an annual frequency in August of each year. Based on additional review of both recent and historical data, Western no longer recommends removing the April groundwater monitoring event from the Groundwater Monitoring Plan. A revised monitoring plan will be submitted in June of 2023 outlining the proposed sampling schedule and sampling locations for both the April semiannual sampling event and August low-flow sampling event. The revised Plan will be implemented if approved by the NMED HWB. Until approval of a 2023 Groundwater Monitoring Plan is obtained, Western will continue to follow the last approved Groundwater Monitoring Plan, dated June 27, 2014, with the addition of sampling wells that have since been installed at the Terminal.

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7.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

7.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties).

7.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Terminal contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Terminal may vary from those encountered at actual sample locations. Ensolum's findings and recommendations are based solely upon data available to Ensolum at the time of these services.

7.3 Reliance

This report has been prepared for the exclusive use of Western, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Terminal) is prohibited without the express written authorization of Western and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

8.0 REFERENCES

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Tables

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TABLE 1
FLUID LEVELS
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San Juan County, New Mexico

Well ID	Date	Measuring Point Elevation (ft amsl)	Total Well Depth (ft below TOC)	Depth To Product (ft below TOC)	Depth To Water (ft below TOC)	Corrected Groundwater Elevation (ft amsl)	SPH Thickness (ft)
MW-1	4/15/2016	5519.21	21.56	NPP	17.23	5501.98	NPP
	8/15/2016	5519.21	21.56	NPP	16.83	5502.38	NPP
	4/18/2017	5519.21	21.56	NPP	17.62	5501.59	NPP
	8/22/2017	5519.21	21.41	NPP	17.35	5501.86	NPP
	4/16/2018	5519.21	21.41	NPP	17.68	5501.53	NPP
	8/1/2018	5519.21	21.40	NPP	18.16	5501.05	NPP
	4/2/2019	5519.21	21.34	NPP	17.40	5501.81	NPP
	8/19/2019	5519.21	21.41	NPP	17.02	5502.19	NPP
	5/26/2020	5519.21	21.42	NPP	15.94	5503.27	NPP
	8/4/2020	5519.21	21.40	NPP	15.65	5503.56	NPP
	4/26/2021	5519.21	21.40	NPP	17.60	5501.61	NPP
	8/16/2021	5519.21	21.40	NPP	17.24	5501.97	NPP
	12/21/2021	5519.21	21.40	NPP	18.64	5500.57	NPP
	4/11/2022	5519.21	21.40	NPP	18.80	5500.41	NPP
	8/1/2022	5519.21	21.40	NPP	17.85	5501.36	NPP
MW-3	4/15/2016	5539.27	36.75	NPP	36.33	5502.94	NPP
	8/15/2016	5539.27	36.75	NPP	36.29	5502.98	NPP
	4/18/2017	5539.27	36.75	NPP	NWP	NWP	NPP
	8/22/2017	5539.27	36.46	NPP	36.46	5502.81	NPP
	4/16/2018	5539.27	36.50	NPP	36.50	5502.77	NPP
	8/1/2018	5539.27	36.50	NPP	36.50	5502.77	NPP
	4/1/2019	5539.27	36.44	NPP	NWP	NWP	NPP
	8/19/2019	5539.27	36.57	NPP	NWP	NWP	NPP
	5/27/2020	5539.27	36.51	NPP	35.82	5503.45	NPP
	8/4/2020	5539.27	36.53	NPP	35.35	5503.92	NPP
	4/26/2021	5539.27	36.50	NPP	36.50	5502.77	NPP
	8/16/2021	5539.27	36.50	NPP	NWP	NWP	NPP
	4/11/2022	5539.27	36.50	NPP	NWP	NWP	NPP
	8/1/2022	5539.27	36.50	NPP	NWP	NWP	NPP
MW-4	4/15/2016	5527.78	30.48	NPP	27.10	5500.68	NPP
	8/15/2016	5527.78	30.48	NPP	27.21	5500.57	NPP
	4/17/2017	5527.78	30.48	NPP	27.85	5499.93	NPP
	8/22/2017	5527.78	29.82	NPP	27.10	5500.68	NPP
	4/16/2018	5527.78	29.76	NPP	27.31	5500.47	NPP
	8/1/2018	5527.78	29.77	NPP	27.47	5500.31	NPP
	4/1/2019	5527.78	29.78	NPP	27.28	5500.50	NPP
	8/20/2019	5527.78	29.78	NPP	27.42	5500.36	NPP
	5/26/2020	5527.78	29.83	NPP	27.59	5500.19	NPP
	8/4/2020	5527.78	29.81	NPP	27.51	5500.27	NPP
	4/26/2021	5527.78	29.81	NPP	27.55	5500.23	NPP
	8/16/2021	5527.78	29.81	NPP	27.66	5500.12	NPP
	4/11/2022	5527.78	29.81	NPP	27.68	5500.10	NPP
	8/1/2022	5527.78	29.81	NPP	27.76	5500.02	NPP
MW-5	4/18/2016	5548.56	37.20	NPP	NWP	NWP	NPP
	8/16/2016	5548.56	37.20	NPP	NWP	NWP	NPP
	4/18/2017	5548.56	37.20	NPP	NWP	NWP	NPP
	8/22/2017	5548.56	37.20	NPP	NWP	NWP	NPP
	4/16/2018	5548.56	31.15	NPP	NWP	NWP	NPP
	8/2/2018	5548.56	31.15	NPP	NWP	NWP	NPP

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MW-5	4/2/2019	5548.56	31.12	NPP	NWP	NWP	NPP
	8/19/2019	5548.56	31.16	NPP	NWP	NWP	NPP
	5/26/2020	5548.56	31.15	NPP	NWP	NWP	NPP
	8/4/2020	5548.56	31.14	NPP	NWP	NWP	NPP
	4/26/2021	5548.56	31.20	NPP	31.20	5517.36	NPP
	8/16/2021	5548.56	31.20	NPP	NWP	NWP	NPP
	4/11/2022	5548.56	31.20	NPP	NWP	NWP	NPP
	8/1/2022	5548.56	31.20	NPP	NWP	NWP	NPP
MW-6	4/18/2016	5554.61	48.00	NPP	NWP	NWP	NPP
	8/16/2016	5554.61	48.00	NPP	NWP	NWP	NPP
	4/18/2017	5554.61	48.00	NPP	NWP	NWP	NPP
	8/22/2017	5554.61	48.00	NPP	NWP	NWP	NPP
	4/16/2018	5554.61	47.45	NPP	NWP	NWP	NPP
	8/2/2018	5554.61	47.45	NPP	NWP	NWP	NPP
	4/2/2019	5554.61	47.39	NPP	NWP	NWP	NPP
	8/19/2019	5554.61	47.49	NPP	NWP	NWP	NPP
	5/26/2020	5554.61	47.49	NPP	NWP	NWP	NPP
	8/4/2020	5554.61	47.45	NPP	NWP	NWP	NPP
	4/26/2021	5554.61	47.55	NPP	NWP	NWP	NPP
	8/16/2021	5554.61	47.55	NPP	NWP	NWP	NPP
	4/11/2022	5554.61	47.55	NPP	NWP	NWP	NPP
	8/1/2022	5554.61	47.55	NPP	NWP	NWP	NPP
MW-7	4/15/2016	5527.66	62.61	NPP	27.31	5500.35	NPP
	8/15/2016	5527.66	62.61	NPP	27.74	5499.92	NPP
	4/17/2017	5527.66	62.61	NPP	27.28	5500.38	NPP
	8/22/2017	5527.66	62.05	NPP	27.62	5500.04	NPP
	4/16/2018	5527.66	62.08	NPP	27.40	5500.26	NPP
	8/1/2018	5527.66	62.09	NPP	27.79	5499.87	NPP
	4/1/2019	5527.66	62.03	NPP	27.65	5500.01	NPP
	8/20/2019	5527.66	62.08	NPP	28.03	5499.63	NPP
	5/26/2020	5527.66	62.14	NPP	27.80	5499.86	NPP
	8/4/2020	5527.66	62.13	NPP	28.03	5499.63	NPP
	4/26/2021	5527.66	62.14	NPP	27.63	5500.03	NPP
	8/16/2021	5527.66	62.14	NPP	28.08	5499.58	NPP
	4/11/2022	5527.66	62.14	NPP	27.78	5499.88	NPP
	8/1/2022	5527.66	62.14	NPP	28.23	5499.43	NPP
MW-8	4/15/2016	5534.58	35.93	NPP	31.62	5502.96	NPP
	8/16/2016	5534.58	35.93	NPP	34.75	5499.83	NPP
	4/18/2017	5534.58	35.93	NPP	31.92	5502.66	NPP
	8/22/2017	5534.58	34.75	NPP	31.92	5502.66	NPP
	4/16/2018	5534.58	34.78	NPP	32.22	5502.36	NPP
	8/1/2018	5534.58	34.73	NPP	32.40	5502.18	NPP
	4/1/2019	5534.58	34.72	NPP	32.07	5502.51	NPP
	8/19/2019	5534.58	34.92	NPP	31.53	5503.05	NPP
	5/26/2020	5534.58	34.28	NPP	30.78	5503.80	NPP
	8/4/2020	5534.58	34.81	NPP	30.25	5504.33	NPP
	4/26/2021	5534.58	34.80	NPP	31.88	5502.70	NPP
	8/16/2021	5534.58	34.80	NPP	32.50	5502.08	NPP
	12/21/2021	5534.58	34.80	NPP	32.63	5501.95	NPP

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MW-8	4/11/2022	5534.58	34.80	NPP	32.86	5501.72	NPP
	8/1/2022	5534.58	34.80	NPP	32.86	5501.72	NPP
MW-11	4/18/2016	5510.31	22.94	NPP	11.89	5498.42	NPP
	8/16/2016	5510.31	22.94	NPP	11.11	5499.20	NPP
	4/18/2017	5510.31	22.94	NPP	11.49	5498.82	NPP
	8/23/2017	5510.31	22.32	NPP	12.11	5498.20	NPP
	4/16/2018	5510.31	21.81	NPP	12.12	5498.19	NPP
	8/2/2018	5510.31	21.80	NPP	12.28	5498.03	NPP
	4/2/2019	5510.31	21.77	NPP	11.59	5498.72	NPP
	8/19/2019	5510.31	21.82	NPP	12.47	5497.84	NPP
	5/26/2020	5510.31	21.99	NPP	12.34	5497.97	NPP
	8/4/2020	5510.31	21.99	NPP	12.17	5498.14	NPP
	4/26/2021	Cannot Gauge - Wasp Nest in Well					
	8/16/2021	Cannot Gauge - Wasp Nest in Well					
	4/11/2022	Cannot Gauge - Wasp Nest in Well					
	8/1/2022	Cannot Gauge - Wasp Nest in Well					
MW-12	4/18/2016	5501.61	14.98	NPP	10.02	5491.59	NPP
	8/16/2016	5501.61	14.98	NPP	9.49	5492.12	NPP
	4/18/2017	5501.61	14.98	NPP	10.04	5491.57	NPP
	8/25/2017	5501.61	13.36	NPP	10.29	5491.32	NPP
	4/16/2018	5501.61	13.15	NPP	10.65	5490.96	NPP
	8/2/2018	5501.61	13.15	NPP	10.30	5491.31	NPP
	4/2/2019	5501.61	13.25	NPP	10.15	5491.46	NPP
	8/19/2019	5501.61	13.45	NPP	10.14	5491.47	NPP
	5/26/2020	5501.61	13.49	NPP	9.28	5492.33	NPP
	8/4/2020	5501.61	13.49	NPP	9.75	5491.86	NPP
	4/27/2021	5501.61	13.49	NPP	10.42	5491.19	NPP
	8/16/2021	5501.61	13.49	NPP	9.56	5492.05	NPP
	4/11/2022	5501.61	13.49	NPP	10.37	5491.24	NPP
	8/1/2022	5501.61	13.49	NPP	9.60	5492.01	NPP
MW-13	4/18/2016	5542.04	52.89	NPP	40.51	5501.53	NPP
	8/16/2016	5542.04	52.89	NPP	40.67	5501.37	NPP
	4/18/2017	5542.04	52.89	NPP	40.59	5501.45	NPP
	8/23/2017	5542.04	52.85	NPP	40.65	5501.39	NPP
	4/16/2018	5542.04	52.90	NPP	40.75	5501.29	NPP
	8/2/2018	5542.04	52.89	NPP	40.85	5501.19	NPP
	4/2/2019	5542.04	52.77	NPP	40.99	5501.05	NPP
	8/19/2019	5542.04	52.91	NPP	40.99	5501.05	NPP
	5/26/2020	5542.04	52.90	NPP	41.05	5500.99	NPP
	8/4/2020	5542.04	52.92	NPP	41.00	5501.04	NPP
	4/26/2021	5542.04	52.92	NPP	40.96	5501.08	NPP
	8/16/2021	5542.04	52.92	NPP	41.04	5501.00	NPP
	4/11/2022	5542.04	52.92	NPP	41.19	5500.85	NPP
	8/2/2022	5542.04	52.92	NPP	41.28	5500.76	NPP
MW-20	4/15/2016	5519.90	27.13	20.60	21.20	5499.18	0.60
	8/16/2016	5519.90	27.13	20.60	20.64	5499.29	0.04
	4/17/2017	5519.90	27.13	20.60	20.87	5499.25	0.27
	8/22/2017	5519.90	27.13	20.65	20.94	5499.19	0.29
	4/16/2018	5519.90	27.12	20.73	21.13	5499.09	0.40

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MW-20	8/1/2018	5519.90	27.11	20.78	21.32	5499.01	0.54
	4/1/2019	5519.90	27.10	20.71	21.05	5499.12	0.34
	8/20/2019	5519.90	27.18	20.67	20.82	5499.20	0.15
	5/28/2020	5519.90	27.15	20.71	20.81	5499.17	0.10
	8/4/2020	5519.90	27.10	20.54	20.56	5499.36	0.02
	4/26/2021	5519.90	27.11	20.75	20.77	5499.15	0.02
	8/16/2021	5519.90	27.40	NPP	20.80	5499.10	NPP
	4/11/2022	5519.90	27.40	NPP	21.00	5498.90	NPP
	8/11/2022	5519.90	27.40	NPP	20.99	5498.91	NPP
MW-21	4/15/2016	5521.99	30.38	NPP	21.68	5500.31	NPP
	8/15/2016	5521.99	30.38	NPP	21.21	5500.78	NPP
	4/18/2017	5521.99	30.38	NPP	21.58	5500.41	NPP
	8/22/2017	5521.99	30.44	NPP	21.60	5500.39	NPP
	4/16/2018	5521.99	30.46	NPP	21.88	5500.11	NPP
	8/1/2018	5521.99	30.46	NPP	21.94	5500.05	NPP
	4/1/2019	5521.99	30.45	NPP	21.70	5500.29	NPP
	8/19/2019	5521.99	30.54	NPP	21.62	5500.37	NPP
	5/27/2020	5521.99	30.53	NPP	21.48	5500.51	NPP
	8/4/2020	5521.99	30.52	NPP	21.23	5500.76	NPP
	4/26/2021	5521.99	30.51	21.59	21.79	5500.36	0.20
	8/16/2021	5521.99	30.52	NPP	21.80	5500.19	NPP
	12/21/2021	5521.99	30.52	NPP	22.18	5499.81	NPP
	4/11/2022	5521.99	30.52	22.32	22.39	5499.66	NPP
	8/1/2022	5521.99	30.52	NPP	22.05	5499.94	NPP
MW-25	4/18/2016	5533.99	41.20	NPP	32.86	5501.13	NPP
	8/16/2016	5533.99	41.20	NPP	30.01	5503.98	NPP
	4/18/2017	5533.99	41.20	NPP	32.84	5501.15	NPP
	8/23/2017	5533.99	41.20	NPP	32.90	5501.09	NPP
	4/16/2018	5533.99	41.24	NPP	33.06	5500.93	NPP
	8/2/2018	5533.99	41.23	NPP	33.18	5500.81	NPP
	4/2/2019	5533.99	41.20	NPP	33.23	5500.76	NPP
	8/19/2019	5533.99	41.31	NPP	33.24	5500.75	NPP
	5/26/2020	5533.99	41.27	NPP	33.33	5500.66	NPP
	8/4/2020	5533.99	41.30	NPP	33.30	5500.69	NPP
	4/26/2021	5533.99	41.25	NPP	33.29	5500.70	NPP
	8/16/2021	5533.99	41.25	NPP	33.36	5500.63	NPP
	4/11/2022	5533.99	41.25	NPP	33.48	5500.51	NPP
	8/1/2022	5533.99	41.25	NPP	33.55	5500.44	NPP
MW-26	4/18/2016	5517.88	25.11	17.51	17.65	5500.34	0.14
	8/16/2016	5517.88	25.11	17.55	17.65	5500.31	0.10
	4/18/2017	5517.88	25.11	17.45	17.50	5500.42	0.05
	8/23/2017	5517.88	25.11	17.60	17.67	5500.27	0.07
	4/16/2018	5517.88	25.12	17.73	17.76	5500.14	0.03
	8/2/2018	5517.88	25.12	17.85	17.88	5500.02	0.03
	4/2/2019	5517.88	25.11	NPP	17.79	5500.09	NPP
	8/19/2019	5517.88	25.19	17.90	17.94	5499.97	0.04
	5/26/2020	5517.88	25.18	NPP	18.03	5499.85	NPP
	8/4/2020	5517.88	25.18	18.01	18.03	5499.87	0.02
	4/26/2021	5517.88	25.18	NPP	18.00	5499.88	NPP

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MW-26	8/16/2021	5517.88	25.18	NPP	18.05	5499.83	NPP
	4/11/2022	5517.88	25.18	NPP	18.02	5499.86	NPP
	8/1/2022	5517.88	25.18	NPP	21.03	5496.85	NPP
MW-27	4/18/2016	5518.67	24.42	NPP	18.91	5499.76	NPP
	8/16/2016	5518.67	24.42	NPP	19.10	5499.57	NPP
	4/18/2017	5518.67	24.42	NPP	18.87	5499.80	NPP
	8/23/2017	5518.67	24.21	NPP	19.73	5498.94	NPP
	4/16/2018	5518.67	24.32	NPP	20.88	5497.79	NPP
	8/2/2018	5518.67	24.32	NPP	22.41	5496.26	NPP
	4/2/2019	5518.67	24.31	NPP	22.44	5496.23	NPP
	8/19/2019	5518.67	24.46	NPP	22.78	5495.89	NPP
	5/26/2020	5518.67	24.42	NPP	22.72	5495.95	NPP
	8/4/2020	5518.67	24.51	NPP	23.31	5495.36	NPP
	4/26/2021	5518.67	24.51	NPP	22.56	5496.11	NPP
	8/16/2021	5518.67	24.51	NPP	23.32	5495.35	NPP
	4/11/2022	5518.67	24.51	NPP	21.10	5497.57	NPP
	8/1/2022	5518.67	24.51	NPP	21.75	5496.92	NPP
MW-29	4/15/2016	5524.97	28.62	NPP	23.04	5501.93	NPP
	8/15/2016	5524.97	28.62	NPP	22.68	5502.29	NPP
	4/18/2017	5524.97	28.62	NPP	23.23	5501.74	NPP
	8/22/2017	5524.97	28.69	NPP	23.11	5501.86	NPP
	4/16/2018	5524.97	28.65	NPP	23.45	5501.52	NPP
	8/1/2018	5524.97	28.60	NPP	23.66	5501.31	NPP
	4/1/2019	5524.97	28.58	NPP	23.23	5501.74	NPP
	8/19/2019	5524.97	28.62	NPP	22.83	5502.14	NPP
	5/27/2020	5524.97	28.65	NPP	22.12	5502.85	NPP
	8/4/2020	5524.97	28.67	NPP	21.66	5503.31	NPP
	4/26/2021	5524.97	28.68	NPP	23.31	5501.66	NPP
	8/16/2021	5524.97	28.68	NPP	23.17	5501.80	NPP
	12/21/2021	5524.97	28.68	NPP	24.09	5500.88	NPP
	4/11/2022	5524.97	28.68	NPP	24.28	5500.69	NPP
	8/1/2022	5524.97	28.68	NPP	23.70	5501.27	NPP
MW-30	4/15/2016	5536.83	40.13	NPP	33.92	5502.91	NPP
	8/15/2016	5536.83	40.13	NPP	33.84	5502.99	NPP
	4/18/2017	5536.83	40.13	NPP	34.07	5502.76	NPP
	8/22/2017	5536.83	40.12	NPP	33.99	5502.84	NPP
	4/16/2018	5536.83	40.22	34.29	34.30	5502.54	0.01
	8/1/2018	5536.83	40.19	NPP	34.35	5502.48	NPP
	4/1/2019	5536.83	40.00	NPP	34.32	5502.51	NPP
	8/19/2019	5536.83	40.23	NPP	33.85	5502.98	NPP
	5/27/2020	5536.83	40.22	NPP	33.50	5503.33	NPP
	8/4/2020	5536.83	40.22	NPP	32.99	5503.84	NPP
	4/26/2021	5536.83	40.22	NPP	34.29	5502.54	NPP
	8/16/2021	5536.83	40.22	NPP	34.30	5502.53	NPP
	12/21/2021	5536.83	40.22	NPP	34.66	5502.17	NPP
	4/11/2022	5536.83	40.22	NPP	35.02	5501.81	NPP
	8/1/2022	5536.83	40.22	NPP	35.00	5501.83	NPP
MW-31	4/18/2016	5536.24	39.16	NPP	34.13	5502.11	NPP
	8/16/2016	5536.24	39.16	NPP	34.30	5501.94	NPP

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MW-31	4/18/2017	5536.24	39.16	NPP	34.16	5502.08	NPP
	8/22/2017	5536.24	39.16	NPP	34.20	5502.04	NPP
	4/16/2018	5536.24	39.18	NPP	34.30	5501.94	NPP
	8/2/2018	5536.24	39.19	NPP	34.44	5501.80	NPP
	4/2/2019	5536.24	39.17	NPP	34.63	5501.61	NPP
	8/19/2019	5536.24	39.25	NPP	34.61	5501.63	NPP
	5/26/2020	5536.24	39.24	NPP	34.55	5501.69	NPP
	8/4/2020	5536.24	39.23	NPP	34.52	5501.72	NPP
	4/26/2021	5536.24	39.23	NPP	34.54	5501.70	NPP
	8/16/2021	5536.24	39.23	NPP	34.61	5501.63	NPP
	4/11/2022	5536.24	39.23	NPP	34.80	5501.44	NPP
	8/2/2022	5536.24	39.23	NPP	34.91	5501.33	NPP
MW-32	4/18/2016	5525.64	27.51	NPP	25.25	5500.39	NPP
	8/16/2016	5525.64	27.51	NPP	25.37	5500.27	NPP
	4/18/2017	5525.64	27.51	NPP	25.31	5500.33	NPP
	8/23/2017	5525.64	27.54	NPP	25.30	5500.34	NPP
	4/16/2018	5525.64	27.53	NPP	25.45	5500.19	NPP
	8/2/2018	5525.64	27.55	NPP	25.54	5500.10	NPP
	4/2/2019	5525.64	27.53	NPP	25.61	5500.03	NPP
	8/19/2019	5525.64	27.57	NPP	25.64	5500.00	NPP
	5/26/2020	5525.64	27.58	NPP	25.75	5499.89	NPP
	8/4/2020	5525.64	27.61	NPP	25.71	5499.93	NPP
	4/26/2021	5525.64	27.60	NPP	25.41	5500.23	NPP
	8/16/2021	5525.64	27.60	NPP	25.26	5500.38	NPP
	4/11/2022	5525.64	27.60	NPP	25.41	5500.23	NPP
	8/1/2022	5525.64	27.60	NPP	25.54	5500.10	NPP
MW-33	4/18/2016	5521.79	25.51	NPP	22.54	5499.25	NPP
	8/16/2016	5521.79	25.51	NPP	22.78	5499.01	NPP
	4/18/2017	5521.79	25.51	NPP	22.50	5499.29	NPP
	8/23/2017	5521.79	25.50	NPP	22.56	5499.23	NPP
	4/16/2018	5521.79	25.51	NPP	22.78	5499.01	NPP
	8/2/2018	5521.79	25.51	NPP	24.38	5497.41	NPP
	4/2/2019	5521.79	25.50	NPP	23.59	5498.20	NPP
	8/19/2019	5521.79	25.55	NPP	24.01	5497.78	NPP
	5/26/2020	5521.79	25.57	NPP	24.16	5497.63	NPP
	8/4/2020	5521.79	25.56	NPP	23.61	5498.18	NPP
	4/26/2021	5521.79	25.56	NPP	24.50	5497.29	NPP
	8/16/2021	5521.79	25.56	NPP	25.00	5496.79	NPP
	4/11/2022	5521.79	25.56	NPP	24.40	5497.39	NPP
	8/1/2022	5521.79	25.56	NPP	24.70	5497.09	NPP
MW-34	4/18/2016	5511.63	20.96	NPP	14.57	5497.06	NPP
	8/16/2016	5511.63	20.96	NPP	14.05	5497.58	NPP
	4/18/2017	5511.63	20.96	NPP	14.55	5497.08	NPP
	8/23/2017	5511.63	20.97	NPP	14.55	5497.08	NPP
	4/16/2018	5511.63	20.96	NPP	14.87	5496.76	NPP
	8/2/2018	5511.63	20.96	NPP	14.95	5496.68	NPP
	4/2/2019	5511.63	20.94	NPP	14.53	5497.10	NPP
	8/19/2019	5511.63	20.99	NPP	15.03	5496.60	NPP
	5/26/2020	5511.63	21.03	NPP	14.96	5496.67	NPP

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MW-34	8/4/2020	5511.63	21.03	NPP	15.05	5496.58	NPP
	4/26/2021	5511.63	15.20	NPP	15.20	5496.43	NPP
	8/16/2021	5511.63	15.20	NPP	14.72	5496.91	NPP
	4/11/2022	5511.63	15.20	NPP	14.75	5496.88	NPP
	8/1/2022	5511.63	15.20	NPP	14.39	5497.24	NPP
MW-35	4/18/2016	5518.95	26.45	NPP	22.44	5496.51	NPP
	8/16/2016	5518.95	26.45	NPP	22.04	5496.91	NPP
	4/18/2017	5518.95	26.45	NPP	22.45	5496.50	NPP
	8/23/2017	5518.95	25.62	NPP	22.32	5496.63	NPP
	4/16/2018	5518.95	25.65	NPP	22.68	5496.27	NPP
	8/2/2018	5518.95	25.92	NPP	22.72	5496.23	NPP
	4/2/2019	5518.95	25.62	NPP	22.44	5496.51	NPP
	8/19/2019	5518.95	25.71	NPP	22.82	5496.13	NPP
	5/26/2020	5518.95	25.97	NPP	22.60	5496.35	NPP
	8/4/2020	5518.95	26.00	NPP	22.73	5496.22	NPP
	4/26/2021	5518.95	26.00	NPP	22.76	5496.19	NPP
	8/16/2021	5518.95	26.00	NPP	22.41	5496.54	NPP
	4/11/2022	5518.95	26.00	NPP	NWP	NWP	NPP
	8/1/2022	5518.95	26.00	NPP	22.40	5496.55	NPP
MW-36	4/18/2016	5516.95	23.26	NPP	20.95	5496.00	NPP
	8/16/2016	5516.95	23.26	NPP	20.18	5496.77	NPP
	4/18/2017	5516.95	23.26	NPP	20.86	5496.09	NPP
	8/23/2017	5516.95	23.06	NPP	20.77	5496.18	NPP
	4/16/2018	5516.95	23.08	NPP	21.16	5495.79	NPP
	8/2/2018	5516.95	23.06	NPP	21.01	5495.94	NPP
	4/2/2019	5516.95	22.86	NPP	20.87	5496.08	NPP
	8/19/2019	5516.95	22.94	NPP	20.98	5495.97	NPP
	5/26/2020	5516.95	22.94	NPP	20.48	5496.47	NPP
	8/4/2020	5516.95	22.93	NPP	20.63	5496.32	NPP
	4/26/2021	5516.95	22.93	NPP	21.10	5495.85	NPP
	8/16/2021	5516.95	22.93	NPP	20.44	5496.51	NPP
	4/11/2022	5516.95	22.93	NPP	21.06	5495.89	NPP
	8/1/2022	5516.95	22.93	NPP	20.45	5496.50	NPP
MW-37	4/18/2016	5519.62	27.58	NPP	23.66	5495.96	NPP
	8/16/2016	5519.62	27.58	NPP	23.21	5496.41	NPP
	4/18/2017	5519.62	27.58	NPP	23.60	5496.02	NPP
	8/23/2017	5519.62	27.35	NPP	23.44	5496.18	NPP
	4/16/2018	5519.62	27.39	NPP	23.80	5495.82	NPP
	8/2/2018	5519.62	27.37	NPP	23.77	5495.85	NPP
	4/2/2019	5519.62	27.36	NPP	23.56	5496.06	NPP
	8/19/2019	5519.62	27.44	NPP	23.79	5495.83	NPP
	5/26/2020	5519.62	27.43	NPP	23.59	5496.03	NPP
	8/4/2020	5519.62	27.43	NPP	23.68	5495.94	NPP
	4/26/2021	5519.62	27.43	NPP	23.86	5495.76	NPP
	8/16/2021	5519.62	27.43	NPP	23.47	5496.15	NPP
	4/11/2022	5519.62	27.43	NPP	23.61	5496.01	NPP
	8/1/2022	5519.62	27.43	NPP	23.48	5496.14	NPP
MW-38	4/18/2016	5519.19	26.82	NPP	23.64	5495.55	NPP
	8/16/2016	5519.19	26.82	NPP	23.13	5496.06	NPP

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MW-38	4/18/2017	5519.19	26.82	NPP	23.59	5495.60	NPP
	8/22/2017	5519.19	26.82	NPP	23.57	5495.62	NPP
	4/16/2018	5519.19	26.84	NPP	23.89	5495.30	NPP
	8/2/2018	5519.19	26.84	NPP	23.90	5495.29	NPP
	4/2/2019	5519.19	26.65	NPP	23.60	5495.59	NPP
	8/19/2019	5519.19	26.74	NPP	23.73	5495.46	NPP
	5/26/2020	5519.19	26.71	NPP	23.22	5495.97	NPP
	8/4/2020	5519.19	26.92	NPP	23.48	5495.71	NPP
	4/26/2021	5519.19	26.92	NPP	23.81	5495.38	NPP
	8/16/2021	5519.19	26.92	NPP	23.30	5495.89	NPP
	4/11/2022	5519.19	26.92	NPP	27.12	5492.07	NPP
	8/1/2022	5519.19	26.92	NPP	23.32	5495.87	NPP
MW-39	4/15/2016	5520.83	38.34	NPP	25.60	5495.23	NPP
	8/16/2016	5520.83	38.34	NPP	25.80	5495.03	NPP
	4/17/2017	5520.83	38.34	NPP	25.53	5495.30	NPP
	8/22/2017	5520.83	38.31	NPP	25.73	5495.10	NPP
	4/16/2018	5520.83	38.34	NPP	25.50	5495.33	NPP
	8/1/2018	5520.83	38.34	NPP	25.70	5495.13	NPP
	4/1/2019	5520.83	38.32	NPP	25.42	5495.41	NPP
	8/20/2019	5520.83	38.41	NPP	25.72	5495.11	NPP
	5/27/2020	5520.83	38.38	NPP	25.59	5495.24	NPP
	8/4/2020	5520.83	38.23	NPP	25.67	5495.16	NPP
	4/26/2021	5520.83	38.23	24.31	24.33	5496.52	NPP
	8/16/2021	5520.83	38.23	NPP	25.60	5495.23	NPP
	4/11/2022	5520.83	38.23	NPP	25.34	5495.49	NPP
	8/1/2022	5520.83	38.23	NPP	25.60	5495.23	NPP
MW-40	4/15/2016	5527.31	30.07	NPP	28.25	5499.06	NPP
	8/16/2016	5527.31	30.07	NPP	28.14	5499.17	NPP
	4/17/2017	5527.31	30.07	NPP	27.86	5499.45	NPP
	8/22/2017	5527.31	30.07	NPP	27.94	5499.37	NPP
	4/16/2018	5527.31	29.61	NPP	27.92	5499.39	NPP
	8/1/2018	5527.31	29.62	NPP	28.33	5498.98	NPP
	4/1/2019	5527.31	29.73	NPP	27.73	5499.58	NPP
	8/20/2019	5527.31	29.79	NPP	27.93	5499.38	NPP
	5/26/2020	5527.31	29.74	NPP	28.67	5498.64	NPP
	8/4/2020	5527.31	29.75	NPP	28.38	5498.93	NPP
	4/26/2021	5527.31	29.75	NPP	28.18	5499.13	NPP
	8/16/2021	5527.31	29.75	NPP	28.28	5499.03	NPP
	4/11/2022	5527.31	29.75	NPP	28.14	5499.17	NPP
	8/1/2022	5527.31	29.75	28.49	28.52	5498.81	0.03
MW-41	4/15/2016	5526.41	31.62	26.55	26.66	5499.84	0.11
	8/16/2016	5526.41	31.62	NPP	28.14	5498.27	NPP
	4/17/2017	5526.41	31.62	NPP	26.21	5500.20	NPP
	8/22/2017	5526.41	31.62	26.38	26.49	5500.01	0.11
	4/16/2018	5526.41	31.25	26.51	26.58	5499.89	0.07
	8/1/2018	5526.41	31.25	26.85	26.95	5499.54	0.10
	4/1/2019	5526.41	31.21	NPP	26.09	5500.32	NPP
	8/20/2019	5526.41	31.21	26.35	26.37	5500.06	0.02
	5/28/2020	5526.41	31.30	26.80	26.82	5499.61	0.02

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MW-41	8/4/2020	5526.41	31.35	26.70	26.95	5499.66	0.25
	4/26/2021	5526.41	31.30	NPP	31.30	5495.11	NPP
	8/16/2021	5526.41	31.30	NPP	NWP	NWP	NPP
	4/11/2022	5526.41	31.30	NPP	NWP	NWP	NPP
	8/1/2022	5526.41	31.30	26.86	27.00	5499.52	0.14
MW-44	4/15/2016	5535.44	50.91	NPP	33.98	5501.46	NPP
	8/16/2016	5535.44	50.91	NPP	34.32	5501.12	NPP
	4/18/2017	5535.44	50.91	NPP	34.05	5501.39	NPP
	8/22/2017	5535.44	50.91	NPP	34.18	5501.26	NPP
	4/16/2018	5535.44	50.98	NPP	34.10	5501.34	NPP
	8/1/2018	5535.44	50.96	NPP	34.35	5501.09	NPP
	4/1/2019	5535.44	50.92	NPP	34.39	5501.05	NPP
	8/19/2019	5535.44	50.99	NPP	34.55	5500.89	NPP
	5/27/2020	5535.44	51.00	NPP	34.23	5501.21	NPP
	8/4/2020	5535.44	51.00	NPP	34.32	5501.12	NPP
	4/26/2021	5535.44	51.00	NPP	33.69	5501.75	NPP
	8/16/2021	5535.44	51.00	NPP	34.28	5501.16	NPP
	4/11/2022	5535.44	51.00	NPP	34.29	5501.15	NPP
	8/1/2022	5535.44	51.00	NPP	34.90	5500.54	NPP
MW-45	4/15/2016	5506.36	16.92	NPP	11.88	5494.48	NPP
	8/16/2016	5506.36	16.92	NPP	11.78	5494.58	NPP
	4/17/2017	5506.36	16.92	NPP	11.81	5494.55	NPP
	8/22/2017	5506.36	16.74	NPP	11.83	5494.53	NPP
	4/17/2018	5506.36	16.71	NPP	11.96	5494.40	NPP
	8/1/2018	5506.36	16.71	11.95	11.96	5494.41	0.01
	4/2/2019	5506.36	16.66	NPP	11.96	5494.40	NPP
	8/19/2019	5506.36	16.79	NPP	11.88	5494.48	NPP
	5/27/2020	5506.36	16.78	NPP	12.10	5494.26	NPP
	8/4/2020	5506.36	16.78	NPP	12.11	5494.25	NPP
	4/26/2021	5506.36	16.78	NPP	12.08	5494.28	NPP
	8/17/2021	5506.36	16.78	NPP	11.97	5494.39	NPP
	4/11/2022	5506.36	16.78	NPP	12.01	5494.35	NPP
	8/1/2022	5506.36	16.78	NPP	12.10	5494.26	NPP
MW-46	4/15/2016	5504.65	10.39	NPP	10.03	5494.62	NPP
	8/15/2016	5504.65	10.39	NPP	NWP	NWP	NPP
	4/17/2017	5504.65	10.39	NPP	NWP	NWP	NPP
	8/24/2017	5504.65	10.09	NPP	10.08	5494.57	NPP
	4/17/2018	5504.65	10.10	NPP	10.10	5494.55	NPP
	8/1/2018	5504.65	10.10	NPP	NWP	NWP	NPP
	4/2/2019	5504.65	10.00	NPP	NWP	NWP	NPP
	8/19/2019	5504.65	10.19	NPP	NWP	NWP	NPP
	5/27/2020	5504.65	10.17	NPP	NWP	NWP	NPP
	8/4/2020	5504.65	10.16	NPP	NWP	NWP	NPP
	4/27/2021	5504.65	10.51	NPP	NWP	NWP	NPP
	8/17/2021	5504.65	10.51	NPP	NWP	NWP	NPP
	4/11/2022	5504.65	10.51	NPP	NWP	NWP	NPP
	8/1/2022	5504.65	10.51	NPP	NWP	NWP	NPP
MW-47	4/15/2016	5506.77	14.28	NPP	12.55	5494.22	NPP
	8/15/2016	5506.77	14.28	NPP	12.14	5494.63	NPP

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MW-47	4/17/2017	5506.77	14.28	NPP	12.60	5494.17	NPP
	8/23/2017	5506.77	14.11	NPP	12.96	5493.81	NPP
	4/17/2018	5506.77	14.12	NPP	13.17	5493.60	NPP
	8/1/2018	5506.77	14.11	NPP	13.30	5493.47	NPP
	4/2/2019	5506.77	14.10	NPP	12.85	5493.92	NPP
	8/19/2019	5506.77	14.18	NPP	13.42	5493.35	NPP
	5/27/2020	5506.77	14.17	NPP	13.42	5493.35	NPP
	8/4/2020	5506.77	14.17	NPP	13.50	5493.27	NPP
	4/27/2021	5506.77	14.17	NPP	13.57	5493.20	NPP
	8/17/2021	5506.77	14.17	NPP	13.55	5493.22	NPP
	4/11/2022	5506.77	14.17	NPP	13.26	5493.51	NPP
	8/1/2022	5506.77	14.17	NPP	12.75	5494.02	NPP
MW-50	4/15/2016	5518.79	20.00	NPP	16.87	5501.92	NPP
	8/15/2016	5518.79	20.00	NPP	16.50	5502.29	NPP
	4/18/2017	5518.79	20.00	NPP	17.42	5501.37	NPP
	8/22/2017	5518.79	22.07	NPP	17.04	5501.75	NPP
	4/16/2018	5518.79	22.07	NPP	17.30	5501.49	NPP
	8/1/2018	5518.79	22.11	NPP	18.02	5500.77	NPP
	4/1/2019	5518.79	21.94	NPP	17.14	5501.65	NPP
	8/19/2019	5518.79	22.02	NPP	16.73	5502.06	NPP
	5/26/2020	5518.79	22.05	NPP	15.39	5503.40	NPP
	8/4/2020	5518.79	22.05	NPP	15.15	5503.64	NPP
	4/26/2021	5518.79	22.05	NPP	17.40	5501.39	NPP
	8/16/2021	5518.79	22.05	NPP	16.75	5502.04	NPP
	4/11/2022	5518.79	22.05	NPP	18.55	5500.24	NPP
	8/1/2022	5518.79	22.05	NPP	17.55	5501.24	NPP
MW-51	4/15/2016	5515.58	20.00	NPP	14.79	5500.79	NPP
	8/15/2016	5515.58	20.00	NPP	14.18	5501.40	NPP
	4/18/2017	5515.58	20.00	NPP	14.93	5500.65	NPP
	8/22/2017	5515.58	22.11	NPP	14.01	5501.57	NPP
	4/16/2018	5515.58	22.14	NPP	15.00	5500.58	NPP
	8/1/2018	5515.58	22.13	NPP	15.31	5500.27	NPP
	4/1/2019	5515.58	22.11	NPP	14.74	5500.84	NPP
	8/19/2019	5515.58	22.05	NPP	14.36	5501.22	NPP
	5/26/2020	5515.58	22.03	NPP	13.53	5502.05	NPP
	8/4/2020	5515.58	22.03	NPP	13.70	5501.88	NPP
	4/26/2021	5515.58	22.03	NPP	14.89	5500.69	NPP
	8/16/2021	5515.58	22.03	NPP	14.50	5501.08	NPP
	12/21/2021	5515.58	22.03	NPP	15.66	5499.92	NPP
	4/11/2022	5515.58	22.03	NPP	15.65	5499.93	NPP
	8/1/2022	5515.58	22.03	NPP	14.72	5500.86	NPP
MW-52	4/15/2016	5538.63	41.00	NPP	36.19	5502.44	NPP
	8/16/2016	5538.63	41.00	NPP	36.17	5502.46	NPP
	4/18/2017	5538.63	41.00	NPP	36.49	5502.14	NPP
	8/22/2017	5538.63	41.68	NPP	36.45	5502.18	NPP
	4/16/2018	5538.63	41.71	NPP	36.78	5501.85	NPP
	8/1/2018	5538.63	41.72	NPP	36.92	5501.71	NPP
	4/1/2019	5538.63	41.66	NPP	36.65	5501.98	NPP
	8/19/2019	5538.63	41.73	NPP	36.13	5502.50	NPP

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MW-52	5/28/2020	5538.63	41.75	NPP	35.43	5503.20	NPP
	8/4/2020	5538.63	41.78	NPP	34.85	5503.78	NPP
	4/26/2021	5538.63	41.78	NPP	36.44	5502.19	NPP
	8/16/2021	5538.63	41.78	NPP	36.46	5502.17	NPP
	12/21/2021	5538.63	41.78	NPP	37.16	5501.47	NPP
	4/11/2022	5538.63	41.78	NPP	37.40	5501.23	NPP
	8/1/2022	5538.63	41.78	NPP	37.20	5501.43	NPP
MW-53	4/15/2016	5541.32	41.50	NPP	38.85	5502.47	NPP
	8/16/2016	5541.32	41.50	NPP	38.90	5502.42	NPP
	4/18/2017	5541.32	41.50	NPP	38.99	5502.33	NPP
	8/22/2017	5541.32	43.50	NPP	39.03	5502.29	NPP
	4/16/2018	5541.32	43.55	NPP	39.29	5502.03	NPP
	8/1/2018	5541.32	43.55	NPP	39.40	5501.92	NPP
	4/1/2019	5541.32	43.53	NPP	39.26	5502.06	NPP
	8/19/2019	5541.32	43.59	NPP	38.91	5502.41	NPP
	5/26/2020	5541.32	43.62	NPP	38.53	5502.79	NPP
	8/4/2020	5541.32	43.60	NPP	37.95	5503.37	NPP
	4/26/2021	5541.32	43.60	NPP	39.01	5502.31	NPP
	8/16/2021	5541.32	43.60	NPP	39.10	5502.22	NPP
	4/11/2022	5541.32	43.60	NPP	39.75	5501.57	NPP
	8/1/2022	5541.32	43.60	NPP	39.82	5501.50	NPP
MW-54	4/15/2016	5530.08	38.00	32.46	32.52	5497.61	0.06
	8/16/2016	5530.08	38.00	31.87	31.88	5498.21	0.01
	4/17/2017	5530.08	38.00	NPP	31.73	5498.35	NPP
	8/22/2017	5530.08	41.20	NPP	31.98	5498.10	NPP
	4/16/2018	5530.08	41.24	NPP	31.83	5498.25	NPP
	8/1/2018	5530.08	41.28	NPP	32.26	5497.82	NPP
	4/1/2019	5530.08	41.32	NPP	31.53	5498.55	NPP
	8/19/2019	5530.08	41.21	NPP	31.79	5498.29	NPP
	5/26/2020	5530.08	41.19	32.84	32.88	5497.23	0.04
	8/4/2020	5530.08	41.22	32.46	32.47	5497.62	0.01
	4/26/2021	5530.08	41.22	31.95	32.27	5498.07	0.32
	8/16/2021	5530.08	41.22	32.19	32.20	5497.89	0.01
	4/11/2022	5530.08	41.22	NPP	32.02	5498.06	NPP
	8/1/2022	5530.08	41.22	NPP	32.41	5497.67	NPP
MW-55	4/15/2016	5519.84	27.25	NPP	21.71	5498.13	NPP
	8/15/2016	5519.84	27.25	NPP	21.74	5498.10	NPP
	4/17/2017	5519.84	27.25	NPP	21.63	5498.21	NPP
	8/22/2017	5519.84	24.18	NPP	21.61	5498.23	NPP
	4/16/2018	5519.84	26.18	NPP	21.75	5498.09	NPP
	8/1/2018	5519.84	26.19	NPP	21.80	5498.04	NPP
	4/1/2019	5519.84	25.87	NPP	21.76	5498.08	NPP
	8/20/2019	5519.84	25.98	NPP	21.85	5497.99	NPP
	5/27/2020	5519.84	26.23	21.77	21.89	5498.05	0.12
	8/4/2020	5519.84	26.00	21.70	21.75	5498.13	0.05
	4/26/2021	5519.84	26.00	21.75	22.00	5498.04	0.25
	8/16/2021	5519.84	26.00	21.78	21.83	5498.05	0.05
	12/21/2021	5519.84	26.00	21.92	21.96	5497.91	0.04
	4/11/2022	5519.84	26.00	21.85	21.88	5497.98	0.03

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MW-55	8/1/2022	5519.84	26.00	21.90	21.96	5497.93	0.06
MW-56	4/15/2016	5519.31	23.75	NPP	18.03	5501.28	NPP
	8/15/2016	5519.31	23.75	NPP	17.85	5501.46	NPP
	4/17/2017	5519.31	23.75	NPP	17.88	5501.43	NPP
	8/22/2017	5519.31	23.75	NPP	18.05	5501.26	NPP
	4/16/2018	5519.31	23.76	NPP	18.25	5501.06	NPP
	8/1/2018	5519.31	23.76	18.33	18.42	5500.96	0.09
	4/1/2019	5519.31	23.72	NPP	18.16	5501.15	NPP
	8/20/2019	5519.31	23.66	NPP	18.02	5501.29	NPP
	5/28/2020	5519.31	23.65	NPP	17.95	5501.36	NPP
	8/4/2020	5519.31	23.62	NPP	17.64	5501.67	NPP
	4/26/2021	5519.31	23.62	NPP	18.19	5501.12	NPP
	8/16/2021	5519.31	23.62	NPP	18.20	5501.11	NPP
	4/11/2022	5519.31	23.62	18.61	18.68	5500.69	0.07
	8/1/2022	5519.31	23.62	18.43	18.63	5500.84	0.20
MW-57	4/15/2016	5521.17	24.25	NPP	19.46	5501.71	NPP
	8/15/2016	5521.17	24.25	NPP	19.29	5501.88	NPP
	4/17/2017	5521.17	24.25	NPP	19.37	5501.80	NPP
	8/22/2017	5521.17	24.25	19.43	19.44	5501.74	0.01
	4/16/2018	5521.17	23.95	19.65	19.66	5501.52	0.01
	8/1/2018	5521.17	23.95	19.74	19.76	5501.43	0.02
	4/1/2019	5521.17	23.93	19.52	19.78	5501.60	0.26
	8/20/2019	5521.17	23.93	19.35	19.65	5501.76	0.30
	5/28/2020	5521.17	23.99	NPP	19.38	5501.79	NPP
	8/4/2020	5521.17	24.00	19.00	19.06	5502.16	0.06
	4/26/2021	5521.17	24.00	19.15	19.59	5501.93	0.44
	8/16/2021	5521.17	24.00	19.63	19.69	5501.53	0.06
	4/11/2022	5521.17	24.00	19.88	20.80	5501.11	0.92
	8/1/2022	5521.17	24.00	19.78	20.50	5501.25	0.72
MW-58	4/15/2016	5520.29	27.00	20.90	21.06	5499.36	0.16
	8/15/2016	5520.29	27.00	20.90	20.93	5499.38	0.03
	4/17/2017	5520.29	27.00	NPP	20.78	5499.51	NPP
	8/22/2017	5520.29	27.00	20.83	20.84	5499.46	0.01
	4/16/2018	5520.29	27.35	NPP	21.03	5499.26	NPP
	8/1/2018	5520.29	27.35	NPP	21.15	5499.14	NPP
	4/1/2019	5520.29	27.35	20.99	21.46	5499.21	0.47
	8/20/2019	5520.29	27.35	20.85	20.88	5499.43	0.03
	5/27/2020	5520.29	27.38	20.99	21.10	5499.28	0.11
	8/4/2020	5520.29	27.35	20.80	20.90	5499.47	0.10
	4/26/2021	5520.29	27.35	21.18	21.20	5499.11	0.02
	8/16/2021	5520.29	27.35	21.10	21.15	5499.18	0.05
	4/11/2022	5520.29	27.35	21.33	21.35	5498.96	0.02
	8/1/2022	5520.29	27.35	NPP	21.21	5499.08	NPP
MW-59	4/18/2016	5545.20	44.25	NPP	43.36	5501.84	NPP
	8/16/2016	5545.20	44.25	NPP	43.52	5501.68	NPP
	4/18/2017	5545.20	44.25	NPP	43.37	5501.83	NPP
	8/22/2017	5545.20	46.85	NPP	43.43	5501.77	NPP
	4/16/2018	5545.20	46.88	NPP	43.49	5501.71	NPP
	8/2/2018	5545.20	46.88	NPP	43.62	5501.58	NPP

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MW-59	4/2/2019	5545.20	46.86	NPP	43.79	5501.41	NPP
	8/19/2019	5545.20	46.93	NPP	43.75	5501.45	NPP
	5/26/2020	5545.20	46.95	NPP	43.70	5501.50	NPP
	8/4/2020	5545.20	46.94	NPP	43.65	5501.55	NPP
	4/26/2021	5545.20	46.94	NPP	43.66	5501.54	NPP
	8/16/2021	5545.20	46.94	NPP	43.76	5501.44	NPP
	4/11/2022	5545.20	46.94	NPP	44.00	5501.20	NPP
	8/1/2022	5545.20	46.94	NPP	44.52	5500.68	NPP
MW-60	4/18/2016	5543.71	43.33	NPP	42.55	5501.16	NPP
	8/16/2016	5543.71	43.33	NPP	42.72	5500.99	NPP
	4/18/2017	5543.71	43.33	NPP	42.58	5501.13	NPP
	8/22/2017	5543.71	43.36	NPP	42.65	5501.06	NPP
	4/16/2018	5543.71	43.38	NPP	42.74	5500.97	NPP
	8/2/2018	5543.71	43.38	NPP	42.88	5500.83	NPP
	4/2/2019	5543.71	43.31	NPP	42.92	5500.79	NPP
	8/19/2019	5543.71	43.43	NPP	42.98	5500.73	NPP
	5/26/2020	5543.71	43.45	NPP	42.96	5500.75	NPP
	8/4/2020	5543.71	43.47	NPP	42.95	5500.76	NPP
	4/26/2021	5543.71	43.47	NPP	43.45	5500.26	NPP
	8/16/2021	5543.71	43.47	NPP	42.88	5500.83	NPP
	4/11/2022	5543.71	43.47	NPP	42.88	5500.83	NPP
	8/2/2022	5543.71	43.47	NPP	42.89	5500.82	NPP
MW-61	4/18/2016	5539.41	40.25	36.60	36.86	5502.76	0.26
	8/16/2016	5539.41	40.25	36.60	36.93	5502.74	0.33
	4/18/2017	5539.41	40.25	36.59	36.80	5502.78	0.21
	8/22/2017	5539.41	40.45	36.60	36.81	5502.77	0.21
	4/17/2018	5539.41	40.50	36.80	37.04	5502.56	0.24
	8/2/2018	5539.41	40.50	36.93	37.23	5502.42	0.30
	4/2/2019	5539.41	40.45	37.01	37.35	5502.33	0.34
	8/19/2019	5539.41	40.60	36.72	37.03	5502.63	0.31
	5/26/2020	5539.41	40.58	36.62	36.74	5502.77	0.12
	8/4/2020	5539.41	40.58	NPP	36.38	5503.03	NPP
	4/26/2021	5539.41	41.06	NPP	41.06	5498.35	NPP
	8/16/2021	5539.41	41.06	NPP	41.19	5498.22	NPP
	4/11/2022	Well can not be accessed					
	8/1/2022	Well can not be accessed					
MW-62	4/18/2016	5561.32	58.25	NPP	56.57	5504.75	NPP
	8/16/2016	5561.32	58.25	NPP	56.51	5504.81	NPP
	4/18/2017	5561.32	58.25	NPP	56.53	5504.79	NPP
	8/22/2017	5561.32	61.25	NPP	56.71	5504.61	NPP
	4/16/2018	5561.32	61.24	NPP	56.52	5504.80	NPP
	8/2/2018	5561.32	61.29	NPP	56.65	5504.67	NPP
	4/2/2019	5561.32	60.93	NPP	56.51	5504.81	NPP
	8/19/2019	5561.32	61.09	NPP	56.61	5504.71	NPP
	5/26/2020	5561.32	61.36	NPP	56.53	5504.79	NPP
	8/4/2020	5561.32	61.38	NPP	56.50	5504.82	NPP
	4/26/2021	5561.32	61.38	NPP	56.27	5505.05	NPP
	8/16/2021	5561.32	61.38	NPP	56.48	5504.84	NPP
	8/4/2022	5561.32	61.38	NPP	56.76	5504.56	NPP

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San Juan County, New Mexico

Well ID	Date	Measuring Point Elevation (ft amsl)	Total Well Depth (ft below TOC)	Depth To Product (ft below TOC)	Depth To Water (ft below TOC)	Corrected Groundwater Elevation (ft amsl)	SPH Thickness (ft)
MW-63	4/18/2016	5547.26	46.00	NPP	44.87	5502.39	NPP
	8/16/2016	5547.26	46.00	NPP	40.01	5507.25	NPP
	4/18/2017	5547.26	46.00	NPP	44.87	5502.39	NPP
	8/22/2017	5547.26	47.81	NPP	44.92	5502.34	NPP
	4/16/2018	5547.26	47.79	NPP	45.02	5502.24	NPP
	8/2/2018	5547.26	47.83	NPP	45.17	5502.09	NPP
	4/2/2019	5547.26	47.64	NPP	45.31	5501.95	NPP
	8/19/2019	5547.26	47.72	NPP	45.20	5502.06	NPP
	5/26/2020	5547.26	47.87	NPP	45.14	5502.12	NPP
	8/4/2020	5547.26	47.89	NPP	44.94	5502.32	NPP
	4/26/2021	5547.26	47.89	NPP	45.06	5502.20	NPP
	8/16/2021	5547.26	47.89	NPP	45.21	5502.05	NPP
	4/11/2022	5547.26	47.89	NPP	45.48	5501.78	NPP
	8/2/2022	5547.26	47.89	NPP	45.61	5501.65	NPP
MW-64	4/18/2016	5552.29	52.25	NPP	50.11	5502.18	NPP
	8/16/2016	5552.29	52.25	NPP	50.26	5502.03	NPP
	4/18/2017	5552.29	52.25	NPP	44.87	5507.42	NPP
	8/22/2017	5552.29	52.32	NPP	50.19	5502.10	NPP
	4/16/2018	5552.29	52.35	NPP	50.25	5502.04	NPP
	8/2/2018	5552.29	52.36	NPP	50.38	5501.91	NPP
	4/2/2019	5552.29	52.33	NPP	50.49	5501.80	NPP
	8/19/2019	5552.29	52.42	NPP	50.41	5501.88	NPP
	5/26/2020	5552.29	52.41	NPP	50.35	5501.94	NPP
	8/4/2020	5552.29	52.41	NPP	50.29	5502.00	NPP
	4/26/2021	5552.29	52.41	NPP	50.23	5502.06	NPP
	8/16/2021	5552.29	52.41	NPP	50.46	5501.83	NPP
	4/11/2022	5552.29	52.41	NPP	50.05	5502.24	NPP
	8/2/2022	5552.29	52.41	NPP	50.60	5501.69	NPP
MW-65	4/18/2016	5539.62	44.25	NPP	36.94	5502.68	NPP
	8/16/2016	5539.62	44.25	NPP	36.93	5502.69	NPP
	4/18/2017	5539.62	44.25	NPP	36.98	5502.64	NPP
	8/22/2017	5539.62	44.22	NPP	37.03	5502.59	NPP
	4/17/2018	5539.62	44.21	NPP	37.22	5502.40	NPP
	8/2/2018	5539.62	44.21	NPP	37.35	5502.27	NPP
	4/2/2019	5539.62	44.19	NPP	37.37	5502.25	NPP
	8/19/2019	5539.62	44.28	NPP	37.07	5502.55	NPP
	5/26/2020	5539.62	44.25	NPP	36.85	5502.77	NPP
	8/4/2020	5539.62	44.30	NPP	36.48	5503.14	NPP
	4/26/2021	Could not Locate - New retention wall around tanks in area. Possibly Destroyed.					
	8/16/2021	Could not Locate - New retention wall around tanks in area. Possibly Destroyed.					
	4/11/2022	Could not Locate - New retention wall around tanks in area. Possibly Destroyed.					
	8/2/2022	Destroyed.					
MW-66	4/18/2016	5544.62	43.25	NPP	41.75	5502.87	NPP
	8/16/2016	5544.62	43.25	41.82	41.83	5502.80	0.01
	4/18/2017	5544.62	43.25	NPP	41.77	5502.85	NPP
	8/22/2017	5544.62	45.49	41.81	41.82	5502.81	0.01
	4/16/2018	5544.62	45.48	41.97	42.01	5502.64	0.04
	8/2/2018	5544.62	45.48	42.10	42.17	5502.51	0.07
	4/2/2019	5544.62	45.49	42.16	42.24	5502.44	0.08

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MW-66	8/19/2019	5544.62	45.57	41.89	41.95	5502.72	0.06
	5/26/2020	5544.62	44.59	NPP	41.73	5502.89	NPP
	8/4/2020	5544.62	45.58	NPP	41.41	5503.21	NPP
	4/26/2021	5544.62	45.58	NPP	41.84	5502.78	NPP
	8/16/2021	5544.62	45.58	42.01	42.05	5502.60	0.04
	4/11/2022	5544.62	45.58	NPP	42.35	5502.27	NPP
	8/2/2022	5544.62	45.58	42.41	43.00	5502.09	0.59
MW-67	4/15/2016	5523.31	25.14	NPP	21.25	5502.06	NPP
	8/16/2016	5523.31	25.14	NPP	20.94	5502.37	NPP
	4/18/2017	5523.31	25.14	NPP	21.53	5501.78	NPP
	8/22/2017	5523.31	26.18	NPP	21.37	5501.94	NPP
	4/16/2018	5523.31	26.22	NPP	21.60	5501.71	NPP
	8/1/2018	5523.31	26.23	NPP	22.08	5501.23	NPP
	4/1/2019	5523.31	26.21	NPP	21.37	5501.94	NPP
	8/19/2019	5523.31	26.12	NPP	21.09	5502.22	NPP
	5/26/2020	5523.31	26.12	NPP	19.96	5503.35	NPP
	8/4/2020	5523.31	26.12	NPP	19.60	5503.71	NPP
	4/26/2021	5523.21	26.12	NPP	21.51	5501.70	NPP
	8/16/2021	5523.21	26.12	NPP	21.31	5501.90	NPP
	4/11/2022	5523.21	26.12	NPP	22.76	5500.45	NPP
	8/1/2022	5523.21	26.12	NPP	21.80	5501.41	NPP
MW-68	4/15/2016	5517.37	20.58	NPP	16.66	5500.71	NPP
	8/15/2016	5517.37	20.58	NPP	16.20	5501.17	NPP
	4/18/2017	5517.37	20.58	NPP	16.91	5500.46	NPP
	8/22/2017	5517.37	21.10	NPP	16.72	5500.65	NPP
	4/16/2018	5517.37	21.10	NPP	17.13	5500.24	NPP
	8/1/2018	5517.37	21.10	NPP	17.33	5500.04	NPP
	4/1/2019	5517.37	21.08	NPP	16.93	5500.44	NPP
	8/19/2019	5517.37	21.07	NPP	16.53	5500.84	NPP
	5/26/2020	5517.37	21.15	NPP	14.79	5502.58	NPP
	8/4/2020	5517.37	21.14	NPP	15.38	5501.99	NPP
	4/26/2021	5517.37	21.14	NPP	17.00	5500.37	NPP
	8/16/2021	5517.37	21.14	NPP	16.72	5500.65	NPP
	12/21/2021	5517.37	21.14	NPP	17.68	5499.69	NPP
	4/11/2022	5517.37	21.14	NPP	17.80	5499.57	NPP
	8/1/2022	5517.37	21.14	NPP	17.18	5500.19	NPP
MW-69	4/15/2016	5508.51	12.08	NPP	11.89	5496.62	NPP
	8/15/2016	5508.51	12.08	NPP	11.89	5496.62	NPP
	4/17/2017	5508.51	12.08	NPP	11.90	5496.61	NPP
	8/22/2017	5508.51	NM	NM	NM	NM	NM
	4/17/2018	5508.51	12.01	NPP	11.94	5496.57	NPP
	8/18/2018	5508.51	12.01	NPP	11.95	5496.56	NPP
	4/2/2019	5508.51	12.02	NPP	11.97	5496.54	NPP
	8/19/2019	5508.51	11.95	NPP	NWP	NWP	NPP
	5/26/2020	5508.51	12.05	NPP	NWP	NWP	NPP
	8/4/2020	5508.51	12.06	NPP	12.01	5496.50	NPP
	4/26/2021	5508.51	12.06	NPP	11.91	5496.60	NPP
	8/17/2021	5508.51	12.06	NPP	11.88	5496.63	NPP
	4/11/2022	5508.51	12.06	NPP	NWP	NWP	NPP

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MW-69	8/1/2022	5508.51	12.06	NPP	NWP	NWP	NPP
MW-70	4/15/2016	5527.96	26.25	NPP	25.63	5502.33	NPP
	8/15/2016	5527.96	26.25	NPP	25.43	5502.53	NPP
	4/18/2017	5527.96	26.25	NPP	25.99	5501.97	NPP
	8/22/2017	5527.96	28.89	NPP	25.83	5502.13	NPP
	4/16/2018	5527.96	28.93	NPP	26.16	5501.80	NPP
	8/1/2018	5527.96	28.94	NPP	26.36	5501.60	NPP
	4/1/2019	5527.96	28.89	NPP	25.84	5502.12	NPP
	8/19/2019	5527.96	28.71	NPP	25.19	5502.77	NPP
	5/26/2020	5527.96	28.77	NPP	24.54	5503.42	NPP
	8/4/2020	5527.96	28.75	NPP	23.90	5504.06	NPP
	4/26/2021	5527.96	28.75	NPP	25.66	5502.30	NPP
	8/16/2021	5527.96	28.75	NPP	26.33	5501.63	NPP
	4/11/2022	5527.96	28.75	NPP	27.75	5500.21	NPP
	8/1/2022	5527.96	28.75	NPP	26.65	5501.31	NPP
MW-71	4/15/2016	5529.08	38.95	30.12	30.16	5498.95	0.04
	8/16/2016	5529.08	38.95	30.14	30.26	5498.92	0.12
	4/17/2017	5529.08	38.95	NPP	29.91	5499.17	NPP
	8/22/2017	5529.08	37.96	NPP	29.85	5499.23	NPP
	4/16/2018	5529.08	37.98	29.96	29.97	5499.12	0.01
	8/1/2018	5529.08	37.98	30.20	30.24	5498.87	0.04
	4/1/2019	5529.08	37.96	30.05	30.06	5499.03	0.01
	8/20/2019	5529.08	38.09	NPP	29.86	5499.22	NPP
	5/27/2020	5529.08	38.10	30.15	30.25	5498.91	0.10
	8/4/2020	5529.08	38.09	30.05	30.15	5499.01	0.10
	4/26/2021	5529.08	38.09	29.65	30.10	5499.34	0.45
	8/16/2021	5529.08	38.09	30.11	30.29	5498.93	0.18
	4/11/2022	5529.08	38.09	32.06	33.01	5496.83	0.95
	8/1/2022	5529.08	38.09	30.33	30.42	5498.73	0.09
MW-72	4/15/2016	5528.54	34.94	NPP	28.93	5499.61	NPP
	8/16/2016	5528.54	34.94	28.51	28.90	5499.95	0.39
	4/17/2017	5528.54	34.94	28.30	28.48	5500.20	0.18
	8/22/2017	5528.54	34.91	28.33	28.37	5500.20	0.04
	4/16/2018	5528.54	34.95	28.55	28.71	5499.96	0.16
	8/1/2018	5528.54	34.94	28.78	29.98	5499.52	1.20
	4/1/2019	5528.54	34.85	28.46	28.56	5500.06	0.10
	8/20/2019	5528.54	34.85	28.38	28.51	5500.13	0.13
	5/27/2020	5528.54	34.95	28.61	28.71	5499.91	0.10
	8/4/2020	5528.54	34.90	28.57	28.62	5499.96	0.05
	4/26/2021	5528.54	34.90	NPP	29.67	5498.87	NPP
	8/16/2021	5528.54	34.90	28.81	28.90	5499.71	0.09
	4/11/2022	5528.54	34.90	28.88	28.96	5499.64	0.08
	8/1/2022	5528.54	34.90	28.98	29.05	5499.55	0.07
MW-73	4/15/2016	5528.92	36.66	NPP	29.58	5499.34	NPP
	8/16/2016	5528.92	36.66	NPP	29.71	5499.21	NPP
	4/17/2017	5528.92	36.66	NPP	29.33	5499.59	NPP
	8/22/2017	5528.92	36.76	NPP	29.39	5499.53	NPP
	4/16/2018	5528.92	36.78	NPP	29.53	5499.39	NPP
	8/1/2018	5528.92	36.79	NPP	29.77	5499.15	NPP

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MW-73	4/1/2019	5528.92	36.75	NPP	29.60	5499.32	NPP
	8/20/2019	5528.92	36.83	NPP	29.42	5499.50	NPP
	5/27/2020	5528.92	36.83	NPP	29.74	5499.18	NPP
	8/4/2020	5528.92	36.83	NPP	29.63	5499.29	NPP
	4/26/2021	5528.92	36.83	NPP	29.67	5499.25	NPP
	8/16/2021	5528.92	36.83	NPP	29.73	5499.19	NPP
	4/11/2022	5528.92	36.83	NPP	29.82	5499.10	NPP
	8/1/2022	5528.92	36.83	NPP	29.97	5498.95	NPP
MW-74	4/15/2016	5528.92	33.91	NPP	28.87	5500.05	NPP
	8/16/2016	5528.92	33.91	NPP	28.95	5499.97	NPP
	4/17/2017	5528.92	33.91	NPP	28.63	5500.29	NPP
	8/22/2017	5528.92	33.91	NPP	28.75	5500.17	NPP
	4/16/2018	5528.92	33.94	NPP	28.87	5500.05	NPP
	8/1/2018	5528.92	33.93	NPP	29.09	5499.83	NPP
	4/1/2019	5528.92	33.94	NPP	28.95	5499.97	NPP
	8/20/2019	5528.92	33.85	NPP	28.83	5500.09	NPP
	5/27/2020	5528.92	33.99	NPP	28.98	5499.94	NPP
	8/4/2020	5528.92	33.95	NPP	28.86	5500.06	NPP
	4/26/2021	5528.92	33.95	NPP	29.02	5499.90	NPP
	8/16/2021	5528.92	33.95	NPP	28.98	5499.94	NPP
	4/11/2022	5528.92	33.95	NPP	29.22	5499.70	NPP
	8/1/2022	5528.92	33.95	NPP	29.31	5499.61	NPP
MW-75	8/13/2015	5528.76	32.25	28.15	28.16	5500.61	0.01
	4/15/2016	5528.76	32.25	NPP	28.35	5500.41	NPP
	8/15/2016	5528.76	32.25	NPP	28.37	5500.39	NPP
	4/17/2017	5528.76	32.25	NPP	28.13	5500.63	NPP
	8/23/2017	5528.76	32.25	NPP	28.21	5500.55	NPP
	4/16/2018	5528.76	32.18	NPP	28.46	5500.30	NPP
	8/1/2018	5528.76	32.18	NPP	28.66	5500.10	NPP
	4/1/2019	5528.76	31.95	NPP	28.43	5500.33	NPP
	8/20/2019	5528.76	32.25	NPP	28.43	5500.33	NPP
	5/27/2020	5528.76	32.27	NPP	28.59	5500.17	NPP
	8/4/2020	5528.76	32.28	28.38	28.39	5500.38	0.01
	4/29/2021	5528.76	32.28	28.05	28.55	5500.61	0.50
	8/16/2021	5528.76	32.28	NPP	28.61	5500.15	NPP
	4/11/2022	5528.76	32.38	NPP	28.84	5499.92	NPP
	8/1/2022	5528.76	32.38	NPP	28.91	5499.85	NPP
MW-76	4/15/2016	5528.61	34.16	NPP	28.84	5499.77	NPP
	8/15/2016	5528.61	34.16	NPP	28.79	5499.82	NPP
	4/17/2017	5528.61	34.16	NPP	28.54	5500.07	NPP
	8/22/2017	5528.61	34.09	NPP	28.70	5499.91	NPP
	4/16/2018	5528.61	34.09	NPP	28.84	5499.77	NPP
	8/1/2018	5528.61	34.10	NPP	29.14	5499.47	NPP
	4/1/2019	5528.61	34.01	NPP	28.33	5500.28	NPP
	8/20/2019	5528.61	34.14	NPP	28.65	5499.96	NPP
	5/26/2020	5528.61	34.14	NPP	29.15	5499.46	NPP
	8/4/2020	5528.61	34.13	NPP	28.95	5499.66	NPP
	4/29/2021	5528.61	34.13	NPP	28.93	5499.68	NPP
	8/16/2021	5528.61	34.14	NPP	29.02	5499.59	NPP

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MW-76	4/11/2022	5528.61	34.14	NPP	29.12	5499.49	NPP
	8/1/2022	5528.61	34.14	NPP	29.12	5499.49	NPP
MW-77	4/15/2016	5527.59	34.30	29.05	29.56	5498.44	0.51
	8/15/2016	5527.59	34.30	28.80	29.44	5498.66	0.64
	4/17/2017	5527.59	34.30	28.54	29.12	5498.93	0.58
	8/23/2017	5527.59	34.30	28.63	29.22	5498.84	0.59
	4/16/2018	5527.59	34.30	28.48	29.23	5498.96	0.75
	8/1/2018	5527.59	34.30	28.95	29.57	5498.52	0.62
	4/1/2019	5527.59	34.27	28.31	28.68	5499.21	0.37
	8/19/2019	5527.59	34.23	28.42	29.12	5499.03	0.70
	5/28/2020	5527.59	34.40	29.07	29.75	5498.38	0.68
	8/4/2020	5527.59	34.40	28.98	29.53	5498.50	0.55
	4/29/2021	5527.59	34.40	28.69	29.38	5498.76	0.69
	8/16/2021	5527.59	34.40	28.87	29.21	5498.65	0.34
	4/11/2022	5527.59	34.40	28.63	29.21	5498.84	0.58
	8/1/2022	5527.59	34.40	29.05	29.69	5498.41	0.64
P-03	4/18/2016	5510.77	22.73	NPP	11.55	5499.22	NPP
	8/16/2016	5510.77	22.73	NPP	10.40	5500.37	NPP
	4/18/2017	5510.77	22.73	NPP	10.53	5500.24	NPP
	8/23/2017	5510.77	22.73	NPP	11.34	5499.43	NPP
	4/16/2018	5510.77	22.75	NPP	11.52	5499.25	NPP
	8/2/2018	5510.77	22.75	NPP	11.66	5499.11	NPP
	4/2/2019	5510.77	22.69	NPP	10.60	5500.17	NPP
	8/19/2019	5510.77	22.70	NPP	11.52	5499.25	NPP
	5/26/2020	5510.77	22.81	NPP	12.17	5498.60	NPP
	8/4/2020	5510.77	22.81	NPP	11.30	5499.47	NPP
	4/27/2021	5510.77	22.81	NPP	12.03	5498.74	NPP
	8/16/2021	5510.77	22.81	NPP	11.97	5498.80	NPP
	4/11/2022	Well cannot be accessed					
	8/2/2022	5510.77	22.81	NPP	10.56	5500.21	NPP
MW BCK1	8/18/2014	5517.80	79.00	NPP	77.37	5440.43	NPP
	4/27/2015	5517.80	79.00	NPP	77.30	5440.50	NPP
	8/13/2015	5517.80	79.00	NPP	77.43	5440.37	NPP
	4/20/2018	5517.80	80.55	NPP	77.35	5440.45	NPP
	8/2/2018	5517.80	80.55	NPP	77.35	5440.45	NPP
	4/2/2019	5517.80	80.54	NPP	77.32	5440.48	NPP
	8/19/2019	5517.80	80.63	NPP	77.37	5440.43	NPP
	5/28/2020	5517.80	80.65	NPP	77.37	5440.43	NPP
	8/4/2020	5517.80	80.65	NPP	77.40	5440.40	NPP
	4/28/2021	5517.80	80.65	NPP	77.39	5440.41	NPP
	8/16/2021	5517.80	80.65	NPP	77.42	5440.38	NPP
	4/11/2022	5517.80	80.65	NPP	77.44	5440.36	NPP
	8/2/2022	5517.80	80.65	NPP	77.44	5440.36	NPP
MW BCK2	8/18/2014	5620.14	46.97	NPP	28.10	5592.04	NPP
	4/27/2015	5620.14	46.97	NPP	25.57	5594.57	NPP
	8/13/2015	5620.14	46.97	NPP	26.10	5594.04	NPP
	4/20/2018	5620.14	46.95	NPP	25.10	5595.04	NPP
	8/2/2018	5620.14	46.95	NPP	25.85	5594.29	NPP
	4/2/2019	5620.14	46.90	NPP	25.13	5595.01	NPP

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MW BCK2	8/19/2019	5620.14	46.99	NPP	26.23	5593.91	NPP
	5/28/2020	5620.14	46.99	NPP	26.07	5594.07	NPP
	8/4/2020	5620.14	46.98	NPP	26.56	5593.58	NPP
	4/28/2021	5620.14	46.98	NPP	26.09	5594.05	NPP
	8/16/2021	5620.14	46.98	NPP	26.91	5593.23	NPP
	4/11/2022	5620.14	46.98	NPP	26.20	5593.94	NPP
	8/2/2022	5620.14	46.98	NPP	26.93	5593.21	NPP
RW-1	4/15/2016	5529.34	40.80	NPP	31.31	5498.03	NPP
	8/16/2016	5529.34	40.80	30.60	30.71	5498.72	0.11
	4/17/2017	5529.34	40.80	NPP	30.52	5498.82	NPP
	8/22/2017	5529.34	40.80	NPP	30.84	5498.50	NPP
	4/16/2018	5529.34	40.91	NPP	30.80	5498.54	NPP
	8/1/2018	5529.34	40.93	NPP	31.12	5498.22	NPP
	4/1/2019	5529.34	40.75	NPP	30.33	5499.01	NPP
	8/19/2019	5529.34	40.73	NPP	30.63	5498.71	NPP
	5/28/2020	5529.34	40.88	NPP	31.58	5497.76	NPP
	8/4/2020	5529.34	40.85	NPP	31.28	5498.06	NPP
	4/26/2021	5529.34	40.85	31.15	31.18	5498.18	0.03
	8/16/2021	5529.34	40.85	NPP	30.98	5498.36	NPP
	4/11/2022	5529.34	40.85	NPP	30.95	5498.39	NPP
	8/2/2022	5529.34	40.85	NPP	31.25	5498.09	NPP
RW-2	4/15/2016	5526.94	35.86	NPP	26.35	5500.59	NPP
	8/15/2016	5526.94	35.86	NPP	26.43	5500.51	NPP
	4/17/2017	5526.94	35.86	NPP	26.08	5500.86	NPP
	8/22/2017	5526.94	35.86	NPP	26.35	5500.59	NPP
	4/16/2018	5526.94	35.10	NPP	26.55	5500.39	NPP
	8/1/2018	5526.94	35.00	NPP	26.72	5500.22	NPP
	4/1/2019	5526.94	35.03	26.45	26.60	5500.46	0.15
	8/20/2019	5526.94	35.23	26.59	26.80	5500.31	0.21
	5/28/2020	5526.94	34.70	26.75	27.71	5500.00	0.96
	8/4/2020	5526.94	35.20	26.65	27.10	5500.20	0.45
	4/26/2021	5526.94	35.20	26.49	26.69	5500.41	0.20
	8/16/2021	5526.94	35.20	26.76	27.40	5500.05	0.64
	4/11/2022	5526.94	35.20	26.69	27.42	5500.10	0.73
	8/1/2022	5526.94	35.20	26.83	27.50	5499.98	0.67
RW-3	4/15/2016	5520.35	34.57	NPP	22.25	5498.10	NPP
	8/16/2016	5520.35	34.57	NPP	21.34	5499.01	NPP
	4/17/2017	5520.35	34.57	NPP	21.33	5499.02	NPP
	8/22/2017	5520.35	34.57	NM	NM	NM	NM
	4/16/2018	5520.35	33.78	NPP	21.72	5498.63	NPP
	8/1/2018	5520.35	33.75	NPP	22.08	5498.27	NPP
	4/2/2019	5520.35	33.81	NPP	21.21	5499.14	NPP
	8/19/2019	5520.35	33.81	NPP	21.69	5498.66	NPP
	5/26/2020	5520.35	33.83	NPP	22.71	5497.64	NPP
	8/4/2020	5520.35	33.80	NPP	22.20	5498.15	NPP
	4/26/2021	5520.35	33.80	NPP	22.24	5498.11	NPP
	8/16/2021	5520.35	33.80	NPP	22.31	5498.04	NPP
	4/11/2022	5520.35	33.80	NPP	21.95	5498.40	NPP
	8/1/2022	5520.35	33.80	NPP	21.98	5498.37	NPP

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P-2/RW-4	8/1/2018	5523.86	35.22	NPP	27.01	5496.85	NPP
	4/1/2019	5523.86	35.21	26.70	26.86	5497.13	0.16
	8/20/2019	5523.86	35.32	NPP	26.90	5496.96	NPP
	5/28/2020	5523.86	38.02	27.04	27.40	5496.75	0.36
	8/4/2020	5523.86	38.10	26.95	27.35	5496.83	0.40
	4/26/2021	5523.86	38.10	26.61	27.01	5497.17	0.40
	8/16/2021	5523.86	38.10	27.09	27.55	5496.68	0.46
	4/11/2022	5523.86	38.10	27.08	27.65	5496.67	0.57
	8/1/2022	5523.86	38.10	27.11	27.69	5496.63	0.58
RW-9	4/15/2016	5523.21	34.04	24.64	24.67	5498.56	0.03
	8/16/2016	5523.21	34.04	24.64	24.67	5498.56	NPP
	4/17/2017	5523.21	34.04	24.55	24.56	5498.66	0.01
	8/22/2017	5523.21	34.04	24.55	24.58	5498.65	0.03
	4/16/2018	5523.21	33.55	NPP	24.65	5498.56	NPP
	8/1/2018	5523.21	33.54	24.73	24.74	5498.48	0.01
	4/1/2019	5523.21	33.44	24.69	24.70	5498.52	0.01
	8/20/2019	5523.21	33.55	24.65	24.68	5498.55	0.03
	5/27/2020	5523.21	33.95	24.71	24.73	5498.50	0.02
	8/4/2020	5523.21	33.90	24.73	24.74	5498.48	0.01
	4/26/2021	5523.21	33.90	24.37	24.77	5498.76	0.40
	8/16/2021	5523.21	33.90	NPP	24.79	5498.42	NPP
	4/11/2022	5523.21	33.90	NPP	24.80	5498.41	NPP
	8/2/2022	5523.21	33.90	NPP	24.88	5498.33	NPP
RW-14	4/15/2016	5537.50	41.94	34.79	36.09	5502.45	1.3
	8/15/2016	5537.50	41.94	34.79	34.83	5502.70	0.04
	4/17/2017	5537.50	41.94	35.13	35.59	5502.28	0.46
	8/22/2017	5537.50	41.94	NPP	35.07	5502.43	NPP
	4/16/2018	5537.50	41.92	35.49	35.50	5502.01	0.01
	8/1/2018	5537.50	41.92	NPP	35.65	5501.85	NPP
	4/1/2019	5537.50	41.77	35.39	35.68	5502.05	0.29
	8/19/2019	5537.50	41.91	34.88	34.95	5502.61	0.07
	5/28/2020	5537.50	41.90	NPP	34.42	5503.08	NPP
	8/4/2020	5537.50	41.85	NPP	33.92	5503.58	NPP
	4/26/2021	5537.50	41.85	NPP	35.49	5502.01	NPP
	8/16/2021	5537.50	41.85	NPP	35.29	5502.21	NPP
	4/11/2022	5537.50	41.85	36.20	36.25	5501.29	0.05
	8/1/2022	5537.50	41.85	35.96	36.00	5501.53	0.04
RW-15	4/15/2016	5536.83	43.43	NPP	34.89	5501.94	NPP
	8/15/2016	5536.83	43.43	NPP	34.68	5502.15	NPP
	4/18/2017	5536.83	43.43	NPP	34.90	5501.93	NPP
	8/22/2017	5536.83	43.43	NPP	34.85	5501.98	NPP
	4/16/2018	5536.83	42.22	NPP	35.25	5501.58	NPP
	8/1/2018	5536.83	42.22	NPP	35.40	5501.43	NPP
	4/1/2019	5536.83	42.20	NPP	35.20	5501.63	NPP
	8/19/2019	5536.83	42.25	NPP	34.88	5501.95	NPP
	5/27/2020	5536.83	42.10	NPP	34.52	5502.31	NPP
	8/4/2020	5536.83	42.10	NPP	34.02	5502.81	NPP
	4/26/2021	5536.83	42.10	NPP	35.19	5501.64	NPP
	8/16/2021	5536.83	42.10	NPP	35.18	5501.65	NPP

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RW-15	4/11/2022	5536.83	42.10	35.93	35.97	5500.89	0.04
	8/1/2022	5536.83	42.10	35.60	35.75	5501.20	0.15
RW-16	4/15/2016	5535.45	41.48	33.87	33.90	5501.57	0.03
	8/15/2016	5535.45	41.48	NPP	33.85	5501.60	NPP
	4/18/2017	5535.45	41.48	NPP	33.90	5501.55	NPP
	8/22/2017	5535.45	41.48	NPP	33.94	5501.51	NPP
	4/16/2018	5535.45	43.16	NPP	34.26	5501.19	NPP
	8/1/2018	5535.45	43.13	NPP	34.42	5501.03	NPP
	4/1/2019	5535.45	43.05	NPP	34.32	5501.13	NPP
	8/19/2019	5535.45	43.13	NPP	34.12	5501.33	NPP
	5/27/2020	5535.45	40.49	NPP	34.10	5501.35	NPP
	8/4/2020	5535.45	43.15	33.81	33.95	5501.61	0.14
	4/26/2021	5535.45	43.15	34.01	34.36	5501.37	0.35
	8/16/2021	5535.45	43.15	34.45	35.50	5500.79	1.05
	4/11/2022	5535.45	43.15	34.81	35.91	5500.42	1.10
	8/1/2022	5535.45	43.15	34.71	34.82	5500.72	0.11
RW-17	4/15/2016	5533.84	41.89	NPP	32.89	5500.95	NPP
	8/15/2016	5533.84	41.89	NPP	32.94	5500.90	NPP
	4/18/2017	5533.84	41.89	NPP	32.76	5501.08	NPP
	8/22/2017	5533.84	41.89	NPP	32.85	5500.99	NPP
	4/16/2018	5533.84	40.10	NPP	33.08	5500.76	NPP
	8/1/2018	5533.84	39.88	NPP	33.28	5500.56	NPP
	4/1/2019	5533.84	38.37	NPP	32.15	5501.69	NPP
	8/19/2019	5533.84	38.05	NPP	33.08	5500.76	NPP
	5/28/2020	5533.84	38.89	NPP	33.19	5500.65	NPP
	8/4/2020	5533.84	39.95	NPP	33.02	5500.82	NPP
	4/26/2021	5533.84	39.95	NPP	33.23	5500.61	NPP
	8/16/2021	5533.84	39.95	NPP	33.32	5500.52	NPP
	4/11/2022	5533.84	39.95	NPP	33.53	5500.31	NPP
	8/1/2022	5533.84	39.95	NPP	33.60	5500.24	NPP
RW-18	4/15/2016	5529.38	37.58	NPP	29.84	5499.54	NPP
	8/16/2016	5529.38	37.58	NPP	32.92	5496.46	NPP
	4/17/2017	5529.38	37.58	NPP	29.71	5499.67	NPP
	8/23/2017	5529.38	37.58	NPP	29.76	5499.62	NPP
	4/16/2018	5529.38	34.40	NPP	29.87	5499.51	NPP
	8/1/2018	5529.38	34.40	NPP	30.08	5499.30	NPP
	4/1/2019	5529.38	34.38	NPP	30.07	5499.31	NPP
	8/20/2019	5529.38	37.71	NPP	29.83	5499.55	NPP
	5/27/2020	5529.38	37.80	NPP	30.22	5499.16	NPP
	8/4/2020	5529.38	37.85	29.91	29.95	5499.46	0.04
	4/26/2021	5529.38	37.85	29.74	29.99	5499.59	0.25
	8/16/2021	5529.38	37.85	30.08	30.11	5499.29	0.03
	4/11/2022	Well can not be accessed					
	8/1/2022	Well can not be accessed					
RW-19	4/27/2015	5530.51	36.64	NPP	30.15	5500.36	NPP
	8/13/2015	5530.51	36.64	NPP	29.96	5500.55	NPP
	4/15/2016	5530.51	36.64	NPP	30.04	5500.47	NPP
	8/15/2016	5530.51	36.64	NPP	31.16	5499.35	NPP
	4/17/2017	5530.51	36.64	29.70	30.65	5500.62	0.95

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RW-19	8/23/2017	5530.51	36.64	NPP	29.86	5500.65	NPP
	4/16/2018	5530.51	35.60	30.10	30.37	5500.36	0.27
	8/1/2018	5530.51	35.70	30.21	31.46	5500.05	1.25
	4/1/2019	5530.51	35.70	30.11	30.12	5500.40	0.01
	8/20/2019	5530.51	35.84	NPP	30.11	5500.40	NPP
	5/26/2020	5530.51	35.16	30.19	30.24	5500.31	0.05
	8/4/2020	5530.51	35.20	30.13	31.36	5500.13	1.23
	4/26/2021	5530.51	35.20	NPP	31.00	5499.51	NPP
	8/16/2021	5530.51	35.20	30.45	30.50	5500.05	0.05
	4/11/2022	5530.51	35.20	30.32	31.75	5499.90	1.43
	8/1/2022	5530.51	35.20	NPP	29.85	5500.66	NPP
RW-22	4/27/2015	5524.44	35.60	25.70	25.80	5498.72	0.10
	8/13/2015	5524.44	35.60	25.50	25.55	5498.93	0.05
	4/15/2016	5524.44	35.60	25.50	25.73	5498.89	0.23
	8/16/2016	5524.44	35.60	25.51	25.74	5498.88	0.23
	4/17/2017	5524.44	35.60	25.37	25.39	5499.07	0.02
	8/22/2017	5524.44	35.60	NPP	25.36	5499.08	NPP
	4/16/2018	5524.44	35.33	NPP	25.51	5498.93	NPP
	8/1/2018	5524.44	35.32	NPP	25.65	5498.79	NPP
	4/1/2019	5524.44	35.30	NPP	25.60	5498.84	NPP
	8/20/2019	5524.44	35.35	NPP	25.75	5498.69	NPP
	5/28/2020	5524.44	35.36	NPP	25.73	5498.71	NPP
	8/4/2020	5524.44	35.40	NPP	25.61	5498.83	NPP
	4/26/2021	5524.44	35.40	25.35	25.70	5499.02	0.35
	8/16/2021	5524.44	35.40	25.68	25.80	5498.74	0.35
	4/11/2022	5524.44	35.40	NPP	25.75	5498.69	NPP
	8/1/2022	5524.44	35.40	25.84	25.94	5498.58	0.10
RW-23	4/15/2016	5521.38	35.53	23.13	23.39	5498.20	0.26
	8/16/2016	5521.38	35.53	22.81	22.93	5498.55	0.12
	4/17/2017	5521.38	35.53	23.06	23.15	5498.30	0.09
	8/22/2017	5521.38	35.53	NPP	23.09	5498.29	NPP
	4/16/2018	5521.38	35.55	23.20	23.25	5498.17	0.05
	8/1/2018	5521.38	35.55	23.21	23.25	5498.16	0.04
	4/1/2019	5521.38	35.55	23.14	23.16	5498.24	0.02
	8/20/2019	5521.38	35.55	NPP	23.18	5498.20	NPP
	5/27/2020	5521.38	35.56	NPP	23.34	5498.04	NPP
	8/4/2020	5521.38	35.60	NPP	23.33	5498.05	NPP
	4/26/2021	5521.38	35.60	NPP	23.36	5498.02	NPP
	8/16/2021	5521.38	35.60	NPP	23.35	5498.03	NPP
	4/11/2022	5521.38	35.60	NPP	23.35	5498.03	NPP
	8/2/2022	5521.38	35.60	NPP	23.26	5498.12	NPP
RW-28	4/27/2015	5527.93	36.99	29.18	29.76	5498.63	0.58
	8/13/2015	5527.93	36.99	26.92	26.93	5501.01	0.01
	4/15/2016	5527.93	36.99	29.05	29.06	5498.88	0.01
	8/16/2016	5527.93	36.99	29.10	29.36	5498.78	0.26
	4/18/2017	5527.93	36.99	28.96	30.07	5498.75	1.11
	8/22/2017	5527.93	36.99	29.09	29.79	5498.70	0.70
	4/16/2018	5527.93	37.00	28.94	28.95	5498.99	0.01
	8/1/2018	5527.93	37.00	29.19	29.98	5498.58	0.79

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RW-28	4/1/2019	5527.93	36.98	29.16	29.19	5498.76	0.03
	8/19/2019	5527.93	37.07	28.71	28.99	5499.16	0.28
	5/27/2020	5527.93	37.17	29.21	30.17	5498.53	0.96
	8/4/2020	5527.93	37.10	29.50	29.69	5498.39	0.19
	4/26/2021	5527.93	37.10	29.05	29.25	5498.84	0.20
	8/16/2021	5527.93	37.10	29.30	29.48	5498.59	0.18
	4/11/2022	5527.93	37.10	29.35	29.66	5498.52	0.31
	8/1/2022	5527.93	37.10	29.45	30.27	5498.32	0.82
RW-42	4/15/2016	5527.48	32.02	NPP	27.03	5500.45	NPP
	8/15/2016	5527.48	32.02	NPP	27.10	5500.38	NPP
	4/17/2017	5527.48	32.02	NPP	26.96	5500.52	NPP
	8/23/2017	5527.48	31.95	NPP	27.00	5500.48	NPP
	4/16/2018	5527.48	31.95	NPP	27.11	5500.37	NPP
	8/1/2018	5527.48	31.97	NPP	27.36	5500.12	NPP
	4/1/2019	5527.48	31.95	NPP	27.06	5500.42	NPP
	8/20/2019	5527.48	32.14	NPP	27.05	5500.43	NPP
	5/28/2020	5527.48	32.11	NPP	27.18	5500.30	NPP
	8/4/2020	5527.48	32.15	NPP	27.12	5500.36	NPP
	4/26/2021	5527.48	32.15	NPP	27.17	5500.31	NPP
	8/16/2021	Pump running in well - Not able to gauge					
	4/11/2022	5527.48	32.15	NPP	27.49	5499.99	NPP
	8/1/2022	Pump running in well - Not able to gauge					
RW-43	4/15/2016	5520.02	24.03	NPP	20.51	5499.51	NPP
	8/15/2016	5520.02	24.03	NPP	20.44	5499.58	NPP
	4/17/2017	5520.02	24.03	NPP	20.45	5499.57	NPP
	8/22/2017	5520.02	24.20	NPP	20.40	5499.62	NPP
	4/16/2018	5520.02	24.18	NPP	20.60	5499.42	NPP
	8/1/2018	5520.02	24.19	20.72	20.74	5499.30	0.02
	4/1/2019	5520.02	24.16	20.58	20.73	5499.41	0.15
	8/20/2019	5520.02	24.25	20.38	20.49	5499.62	0.11
	5/27/2020	5520.02	24.25	20.42	20.55	5499.57	0.13
	8/4/2020	5520.02	24.25	20.20	20.25	5499.81	0.05
	4/26/2021	5520.02	24.25	21.15	21.56	5498.79	0.41
	8/16/2021	Not Gauged					
	4/11/2022	5520.02	24.25	26.80	27.47	5493.09	0.67
	8/16/2022	5520.02	24.25	20.80	21.35	5499.11	0.55
OW 0+60	4/15/2016	5506.62	12.26	NPP	11.78	5494.84	NPP
	8/16/2016	5506.62	12.26	NPP	11.14	5495.48	NPP
	4/18/2017	5506.62	12.26	NPP	11.66	5494.96	NPP
	8/23/2017	5506.62	12.03	NPP	11.91	5494.71	NPP
	4/17/2018	5506.62	12.29	NPP	11.95	5494.67	NPP
	8/1/2018	5506.62	12.30	NPP	12.10	5494.52	NPP
	4/2/2019	5506.62	12.29	NPP	11.62	5495.00	NPP
	8/19/2019	5506.62	12.33	NPP	12.05	5494.57	NPP
	5/29/2020	5506.62	12.33	NPP	12.13	5494.49	NPP
	8/4/2020	5506.62	12.32	NPP	12.28	5494.34	NPP
	4/27/2021	5506.62	12.34	NPP	12.34	5494.28	NPP
	8/16/2021	5506.62	12.34	NPP	12.11	5494.51	NPP
	4/11/2022	5506.62	12.34	NPP	11.93	5494.69	NPP

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OW 0+60	8/1/2022	5506.62	12.34	NPP	11.22	5495.40	NPP
OW 1+50	4/15/2016	5508.03	14.36	NPP	13.72	5494.31	NPP
	8/16/2016	5508.03	14.36	NPP	13.06	5494.97	NPP
	4/18/2017	5508.03	14.36	NPP	13.74	5494.29	NPP
	8/23/2017	5508.03	14.37	NPP	14.05	5493.98	NPP
	4/17/2018	5508.03	14.36	14.23	14.25	5493.80	0.02
	8/1/2018	5508.03	14.38	14.33	NWP	NWP	NPP
	4/2/2019	5508.03	14.36	NPP	13.72	5494.31	NPP
	8/19/2019	5508.03	14.43	NPP	NWP	NWP	NPP
	5/27/2020	5508.03	14.43	NPP	14.43	5493.60	NPP
	8/4/2020	5508.03	14.43	NPP	14.39	5493.64	NPP
	4/27/2021	5508.03	14.42	NPP	14.42	5493.61	NPP
	8/16/2021	5508.03	14.42	NPP	14.39	5493.64	NPP
	4/11/2022	5508.03	14.42	NPP	14.21	5493.82	NPP
	8/1/2022	5508.03	14.42	NPP	13.35	5494.68	NPP
OW 3+85	4/15/2016	5507.31	15.06	NPP	13.15	5494.16	NPP
	8/15/2016	5507.31	15.06	NPP	12.83	5494.48	NPP
	4/17/2017	5507.31	15.06	NPP	13.14	5494.17	NPP
	8/23/2017	5507.31	15.08	NPP	13.56	5493.75	NPP
	4/17/2018	5507.31	15.08	NPP	13.73	5493.58	NPP
	8/1/2018	5507.31	15.10	NPP	13.92	5493.39	NPP
	4/2/2019	5507.31	15.10	NPP	13.45	5493.86	NPP
	8/19/2019	5507.31	15.15	NPP	14.07	5493.24	NPP
	5/27/2020	5507.31	15.14	NPP	14.13	5493.18	NPP
	8/4/2020	5507.31	15.12	NPP	14.20	5493.11	NPP
	4/27/2021	5507.31	15.22	NPP	14.14	5493.17	NPP
	8/17/2021	5507.31	15.22	NPP	14.35	5492.96	NPP
	4/11/2022	5507.31	15.22	NPP	13.80	5493.51	NPP
	8/1/2022	5507.31	15.22	NPP	13.34	5493.97	NPP
OW 5+50	4/15/2016	5507.59	13.67	NPP	13.43	5494.16	NPP
	8/15/2016	5507.59	13.67	NPP	13.29	5494.30	NPP
	4/17/2017	5507.59	13.67	NPP	13.42	5494.17	NPP
	8/23/2017	5507.59	13.77	NPP	13.41	5494.18	NPP
	4/17/2018	5507.59	13.78	NPP	13.65	5493.94	NPP
	8/1/2018	5507.59	13.78	NPP	13.57	5494.02	NPP
	4/2/2019	5507.59	13.78	NPP	13.65	5493.94	NPP
	8/19/2019	5507.59	13.81	NPP	13.49	5494.10	NPP
	5/27/2020	5507.59	13.82	NPP	13.62	5493.97	NPP
	8/4/2020	5507.59	13.82	NPP	13.59	5494.00	NPP
	4/27/2021	5507.59	13.85	NPP	13.85	5493.74	NPP
	8/17/2021	5507.59	13.85	NPP	NWP	NWP	NPP
	4/11/2022	5507.59	13.85	NPP	NWP	NWP	NPP
	8/1/2022	5507.59	13.85	NPP	NWP	NWP	NPP
OW 6+70	4/15/2016	5504.78	14.67	NPP	NWP	NWP	NPP
	8/15/2016	5504.78	14.67	NPP	NWP	NWP	NPP
	4/17/2017	5504.78	14.67	NPP	NWP	NWP	NPP
	8/24/2017	5504.78	16.48	NPP	NWP	NWP	NPP
	4/17/2018	5504.78	16.47	NPP	NWP	NWP	NPP
	8/1/2018	5504.78	16.47	NPP	NWP	NWP	NPP

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OW 6+70	4/2/2019	5504.78	16.46	NPP	16.45	5488.33	NPP
	8/19/2019	5504.78	16.50	NPP	NWP	NWP	NPP
	5/27/2020	5504.78	16.55	NPP	NWP	NWP	NPP
	8/4/2020	5504.78	16.55	NPP	NWP	NWP	NPP
	4/27/2021	5504.78	16.55	NPP	16.55	5488.23	NPP
	8/17/2021	5504.78	16.55	NPP	NWP	NWP	NPP
	4/11/2022	5504.78	16.55	NPP	16.55	5488.23	NPP
	8/1/2022	5504.78	16.55	NPP	NWP	NWP	NPP
OW 8+10	4/15/2016	5504.78	15.99	NPP	NWP	NWP	NPP
	8/15/2016	5504.78	15.99	NPP	14.69	5490.09	NPP
	4/17/2017	5506.53	15.99	NPP	13.99	5492.54	NPP
	8/24/2017	5506.53	16.01	NPP	15.25	5491.28	NPP
	4/17/2018	5506.53	16.03	NPP	15.55	5490.98	NPP
	8/1/2018	5506.53	16.02	NPP	15.54	5490.99	NPP
	4/2/2019	5506.53	16.02	NPP	13.58	5492.95	NPP
	8/19/2019	5506.53	16.10	NPP	15.09	5491.44	NPP
	5/27/2020	5506.53	16.07	NPP	15.83	5490.70	NPP
	8/4/2020	5506.53	16.10	NPP	15.78	5490.75	NPP
	4/27/2021	5506.53	16.10	NPP	15.66	5490.87	NPP
	8/17/2021	5506.53	16.10	NPP	NWP	NWP	NPP
	4/11/2022	5506.53	16.10	NPP	NWP	NWP	NPP
	8/1/2022	5506.53	16.10	NPP	NWP	NWP	NPP
OW 11+15	4/15/2016	5506.70	16.59	NPP	12.65	5494.05	NPP
	8/15/2016	5506.70	16.59	NPP	12.53	5494.17	NPP
	4/17/2017	5506.70	16.59	NPP	12.56	5494.14	NPP
	8/24/2017	5506.70	16.59	NPP	12.53	5494.17	NPP
	4/17/2018	5506.70	16.60	NPP	12.64	5494.06	NPP
	8/1/2018	5506.70	16.60	NPP	12.65	5494.05	NPP
	4/2/2019	5506.70	16.59	NPP	12.74	5493.96	NPP
	8/19/2019	5506.70	16.65	NPP	12.63	5494.07	NPP
	5/27/2020	5506.70	16.65	NPP	12.82	5493.88	NPP
	8/4/2020	5506.70	16.65	NPP	12.78	5493.92	NPP
	4/27/2021	5506.70	16.75	NPP	12.76	5493.94	NPP
	8/17/2021	5506.70	16.75	NPP	12.67	5494.03	NPP
	4/11/2022	5506.70	16.75	NPP	12.71	5493.99	NPP
	8/1/2022	5506.70	16.75	NPP	12.71	5493.99	NPP
OW 14+10	4/15/2016	5508.14	12.96	NPP	NWP	NWP	NPP
	8/15/2016	5508.14	12.96	NPP	NWP	NWP	NPP
	4/17/2017	5508.14	12.96	NPP	NWP	NWP	NPP
	8/24/2017	5508.14	12.96	NPP	NWP	NWP	NPP
	4/17/2018	5508.14	12.97	NPP	NWP	NWP	NPP
	8/1/2018	5508.14	12.99	NPP	NWP	NWP	NPP
	4/2/2019	5508.14	12.98	NPP	NWP	NWP	NPP
	8/19/2019	5508.14	13.03	NPP	NWP	NWP	NPP
	5/27/2020	5508.14	13.02	NPP	NWP	NWP	NPP
	8/4/2020	5508.14	13.04	NPP	NWP	NWP	NPP
	4/27/2021	5508.14	13.07	NPP	13.07	5495.07	NPP
	8/17/2021	5508.14	13.07	NPP	NWP	NWP	NPP
	4/11/2022	5508.14	13.07	NPP	NWP	NWP	NPP

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OW 14+10	8/1/2022	5508.14	13.07	NPP	NWP	NWP	NPP
OW 16+60	4/15/2016	5508.43	15.21	NPP	13.06	5495.37	NPP
	8/15/2016	5508.43	15.21	NPP	13.04	5495.39	NPP
	4/17/2017	5508.43	15.21	NPP	12.73	5495.70	NPP
	8/24/2017	5508.43	15.25	NPP	13.05	5495.38	NPP
	4/17/2018	5508.43	15.25	NPP	13.43	5495.00	NPP
	8/1/2018	5508.43	15.25	NPP	12.98	5495.45	NPP
	4/2/2019	5508.43	15.25	NPP	12.71	5495.72	NPP
	8/19/2019	5508.43	15.30	NPP	12.84	5495.59	NPP
	5/27/2020	5508.43	15.31	NPP	13.03	5495.40	NPP
	8/4/2020	5508.43	15.31	NPP	12.80	5495.63	NPP
	4/27/2021	5508.43	15.31	NPP	13.29	5495.14	NPP
	8/17/2021	5508.43	15.31	NPP	13.26	5495.17	NPP
	4/11/2022	5508.43	15.31	NPP	13.36	5495.07	NPP
	8/1/2022	5508.43	15.31	NPP	13.17	5495.26	NPP
OW 19+50	4/15/2016	5508.03	13.00	NPP	12.69	5495.34	NPP
	8/15/2016	5508.03	13.00	NPP	12.95	5495.08	NPP
	4/17/2017	5508.03	13.00	NPP	11.85	5496.18	NPP
	8/24/2017	5508.03	13.00	NPP	12.88	5495.15	NPP
	4/17/2018	5508.03	13.00	NPP	NWP	NWP	NPP
	8/1/2018	5508.03	13.00	NPP	NWP	NWP	NPP
	4/2/2019	5508.03	13.01	NPP	12.08	5495.95	NPP
	8/19/2019	5508.03	13.05	NPP	11.94	5496.09	NPP
	5/27/2020	5508.03	13.05	NPP	13.02	5495.01	NPP
	8/4/2020	5508.03	13.05	NPP	NWP	NWP	NPP
	4/27/2021	5508.03	13.09	NPP	13.09	5494.94	NPP
	8/17/2021	5508.03	13.09	NPP	NWP	NWP	NPP
	4/11/2022	5508.03	13.09	NPP	NWP	NWP	NPP
	8/1/2022	5508.03	13.09	NPP	NWP	NWP	NPP
OW 22+00	4/15/2016	5506.91	14.16	NPP	12.05	5494.86	NPP
	8/15/2016	5506.91	14.16	NPP	10.88	5496.03	NPP
	4/17/2017	5506.91	14.16	NPP	10.59	5496.32	NPP
	8/24/2017	5506.91	14.15	NPP	12.91	5494.00	NPP
	4/17/2018	5506.91	14.17	NPP	12.39	5494.52	NPP
	8/1/2018	5506.91	14.18	NPP	13.32	5493.59	NPP
	4/2/2019	5506.91	14.17	NPP	10.67	5496.24	NPP
	8/19/2019	5506.91	14.22	NPP	13.12	5493.79	NPP
	5/27/2020	5506.91	14.20	NPP	12.51	5494.40	NPP
	8/4/2020	5506.91	14.22	NPP	12.70	5494.21	NPP
	4/27/2021	5506.91	14.22	NPP	11.96	5494.95	NPP
	8/17/2021	5506.91	14.22	NPP	13.38	5493.53	NPP
	4/11/2022	5506.91	14.22	NPP	10.24	5496.67	NPP
	8/1/2022	5506.91	14.22	NPP	12.03	5494.88	NPP
OW 23+10	4/15/2016	5514.12	18.34	NPP	16.48	5497.64	NPP
	8/15/2016	5514.12	18.34	NPP	16.37	5497.75	NPP
	4/17/2017	5514.12	18.34	NPP	16.46	5497.66	NPP
	8/24/2017	5514.12	18.34	NPP	16.65	5497.47	NPP
	4/17/2018	5514.12	18.35	NPP	16.58	5497.54	NPP
	8/1/2018	5514.12	18.35	NPP	16.75	5497.37	NPP

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OW 23+10	4/2/2019	5514.12	18.34	NPP	16.53	5497.59	NPP
	8/19/2019	5514.12	18.41	NPP	16.78	5497.34	NPP
	5/26/2020	5514.12	18.42	NPP	16.79	5497.33	NPP
	8/4/2020	5514.12	18.41	NPP	16.60	5497.52	NPP
	4/27/2021	5514.12	18.41	NPP	16.67	5497.45	NPP
	8/17/2021	5514.12	18.41	NPP	16.77	5497.35	NPP
	4/11/2022	5514.12	18.20	NPP	16.85	5497.27	NPP
	8/1/2022	5514.12	18.20	NPP	16.68	5497.44	NPP
OW 23+90	4/15/2016	5515.18	18.01	NPP	17.34	5497.84	NPP
	8/15/2016	5515.18	18.01	NPP	17.25	5497.93	NPP
	4/17/2017	5515.18	18.01	NPP	17.37	5497.81	NPP
	8/24/2017	5515.18	18.01	NPP	17.47	5497.71	NPP
	4/17/2018	5515.18	18.08	NPP	17.42	5497.76	NPP
	8/1/2018	5515.18	18.10	NPP	17.58	5497.60	NPP
	4/2/2019	5515.18	18.10	NPP	17.45	5497.73	NPP
	8/19/2019	5515.18	18.15	NPP	17.71	5497.47	NPP
	5/26/2020	5515.18	18.13	NPP	17.63	5497.55	NPP
	8/4/2020	5515.18	18.13	NPP	17.40	5497.78	NPP
	4/27/2021	5515.18	18.12	NPP	18.12	5497.06	NPP
	8/17/2021	5515.18	18.12	NPP	17.61	5497.57	NPP
	4/11/2022	5515.18	18.12	NPP	NWP	NWP	NPP
	8/1/2022	5515.18	18.12	NPP	NWP	NWP	NPP
OW 25+70	4/15/2016	5509.00	13.98	NPP	10.97	5498.03	NPP
	8/15/2016	5509.00	13.98	NPP	10.90	5498.10	NPP
	4/17/2017	5509.00	13.98	NPP	10.97	5498.03	NPP
	8/24/2017	5509.00	14.00	NPP	11.17	5497.83	NPP
	4/17/2018	5509.00	13.98	NPP	11.10	5497.90	NPP
	8/1/2018	5509.00	13.98	NPP	11.20	5497.80	NPP
	4/2/2019	5509.00	14.00	NPP	11.10	5497.90	NPP
	8/19/2019	5509.00	14.05	NPP	11.25	5497.75	NPP
	5/26/2020	5509.00	14.04	NPP	11.24	5497.76	NPP
	8/4/2020	5509.00	14.04	NPP	11.12	5497.88	NPP
	4/27/2021	5509.00	14.04	NPP	11.10	5497.90	NPP
	8/17/2021	5509.00	14.04	NPP	11.22	5497.78	NPP
	4/11/2022	5509.00	14.04	NPP	11.44	5497.56	NPP
	8/1/2022	5509.00	14.04	NPP	11.25	5497.75	NPP
CW 0+60	4/15/2016	5506.68	14.09	NPP	8.88	5497.80	NPP
	8/16/2016	5506.68	14.09	NPP	7.99	5498.69	NPP
	4/18/2017	5506.68	14.09	NPP	8.00	5498.68	NPP
	8/22/2017	5506.68	14.09	NPP	8.49	5498.19	NPP
	4/17/2018	5506.68	13.98	NPP	8.41	5498.27	NPP
	8/1/2018	5506.68	14.10	NPP	8.76	5497.92	NPP
	4/2/2019	5506.68	13.97	NPP	7.92	5498.76	NPP
	8/19/2019	5506.68	14.04	NPP	8.39	5498.29	NPP
	5/27/2020	5506.68	13.78	NPP	9.12	5497.56	NPP
	8/4/2020	5506.68	14.15	NPP	8.88	5497.80	NPP
	4/27/2021	5506.68	14.15	NPP	8.82	5497.86	NPP
	8/16/2021	5506.68	14.15	NPP	8.85	5497.83	NPP
	4/11/2022	5506.68	14.15	NPP	8.59	5498.09	NPP

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CW 0+60	8/1/2022	5506.68	14.15	NPP	8.45	5498.23	NPP
CW 1+50	4/15/2016	5505.13	13.74	NPP	7.22	5497.91	NPP
	8/16/2016	5505.13	13.74	NPP	6.59	5498.54	NPP
	4/18/2017	5505.13	13.74	NPP	6.51	5498.62	NPP
	8/23/2017	5505.13	13.38	NPP	6.80	5498.33	NPP
	4/17/2018	5505.13	13.35	NPP	6.75	5498.38	NPP
	8/1/2018	5505.13	13.40	NPP	7.05	5498.08	NPP
	4/2/2019	5505.13	13.25	NPP	6.38	5498.75	NPP
	8/19/2019	5505.13	13.31	NPP	6.70	5498.43	NPP
	5/27/2020	5505.13	13.33	NPP	7.49	5497.64	NPP
	8/4/2020	5505.13	13.42	NPP	7.30	5497.83	NPP
	4/27/2021	5505.13	13.42	NPP	7.13	5498.00	NPP
	8/16/2021	5505.13	13.42	NPP	7.11	5498.02	NPP
	4/11/2022	5505.13	13.42	NPP	6.88	5498.25	NPP
	8/1/2022	5505.13	13.42	NPP	7.05	5498.08	NPP
CW 3+85	4/15/2016	5503.87	13.11	NPP	5.91	5497.96	NPP
	8/15/2016	5503.87	13.11	NPP	5.52	5498.35	NPP
	4/17/2017	5503.87	13.11	NPP	5.48	5498.39	NPP
	8/23/2017	5503.87	13.11	NPP	5.60	5498.27	NPP
	4/17/2018	5503.87	13.12	NPP	5.65	5498.22	NPP
	8/1/2018	5503.87	13.12	NPP	5.45	5498.42	NPP
	4/2/2019	5503.87	13.10	NPP	5.48	5498.39	NPP
	8/19/2019	5503.87	13.31	NPP	5.55	5498.32	NPP
	5/27/2020	5503.87	13.18	NPP	6.20	5497.67	NPP
	8/4/2020	5503.87	13.30	NPP	6.05	5497.82	NPP
	4/27/2021	5503.87	13.30	NPP	5.88	5497.99	NPP
	8/17/2021	5503.87	13.30	NPP	5.90	5497.97	NPP
	4/11/2022	5503.87	13.30	NPP	5.70	5498.17	NPP
	8/1/2022	5503.87	13.30	NPP	5.88	5497.99	NPP
CW 5+50	4/15/2016	5503.76	12.27	NPP	6.39	5497.37	NPP
	8/15/2016	5503.76	12.27	NPP	6.30	5497.46	NPP
	4/17/2017	5503.76	12.27	NPP	6.36	5497.40	NPP
	8/23/2017	5503.76	12.27	NPP	6.45	5497.31	NPP
	4/17/2018	5503.76	12.23	NPP	6.40	5497.36	NPP
	8/1/2018	5503.76	12.25	NPP	6.55	5497.21	NPP
	4/2/2019	5503.76	12.22	NPP	6.33	5497.43	NPP
	8/19/2019	5503.76	12.31	NPP	6.43	5497.33	NPP
	5/27/2020	5503.76	12.31	NPP	6.67	5497.09	NPP
	8/4/2020	5503.76	12.31	NPP	6.66	5497.10	NPP
	4/27/2021	5503.76	12.31	NPP	6.50	5497.26	NPP
	8/17/2021	5503.76	12.31	NPP	NWP	NWP	NPP
	4/11/2022	5503.76	12.31	NPP	6.45	5497.31	NPP
	8/1/2022	5503.76	12.31	NPP	6.44	5497.32	NPP
CW 6+70	4/15/2016	5503.84	11.45	NPP	6.61	5497.23	NPP
	8/15/2016	5503.84	11.45	NPP	6.54	5497.30	NPP
	4/17/2017	5503.84	11.45	NPP	6.61	5497.23	NPP
	8/24/2017	5503.84	11.50	NPP	6.94	5496.90	NPP
	4/17/2018	5503.84	6.80	NPP	6.72	5497.12	NPP
	8/1/2018	5503.84	6.80	NPP	NWP	NWP	NPP

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CW 6+70	4/2/2019	5503.84	6.75	NPP	6.65	5497.19	NPP
	8/19/2019	5503.84	6.75	NPP	NWP	NWP	NPP
	5/27/2020	5503.84	6.97	NPP	NWP	NWP	NPP
	8/4/2020	5503.84	6.97	NPP	NWP	NWP	NPP
	4/27/2021	5503.84	6.97	NPP	6.87	5496.97	NPP
	8/17/2021	5503.84	6.97	NPP	NWP	NWP	NPP
	4/11/2022	5503.84	6.97	NPP	6.78	5497.06	NPP
	8/1/2022	5503.84	6.97	NPP	7.01	5496.83	NPP
CW 8+10	4/15/2016	5504.02	11.63	NPP	7.56	5496.46	NPP
	8/15/2016	5504.02	11.63	NPP	7.35	5496.67	NPP
	4/17/2017	5504.02	11.63	NPP	7.45	5496.57	NPP
	8/24/2017	5504.02	11.35	NPP	7.69	5496.33	NPP
	4/17/2018	5504.02	11.35	NPP	7.70	5496.32	NPP
	8/1/2018	5504.02	11.37	NPP	7.87	5496.15	NPP
	4/2/2019	5504.02	11.35	NPP	7.64	5496.38	NPP
	8/19/2019	5504.02	11.39	NPP	7.71	5496.31	NPP
	5/27/2020	5504.02	11.39	NPP	8.04	5495.98	NPP
	8/4/2020	5504.02	11.42	NPP	8.10	5495.92	NPP
	4/27/2021	5504.02	11.42	NPP	8.91	5495.11	NPP
	8/17/2021	5504.02	11.42	NPP	8.05	5495.97	NPP
	4/11/2022	5504.02	11.42	NPP	7.79	5496.23	NPP
	8/1/2022	5504.02	11.42	NPP	7.90	5496.12	NPP
CW 8+45	4/15/2016	5503.80	12.60	NPP	7.70	5496.10	NPP
	8/15/2016	5503.80	12.60	NPP	7.51	5496.29	NPP
	4/17/2017	5503.80	12.60	NPP	7.67	5496.13	NPP
	8/24/2017	5503.80	12.60	NPP	7.92	5495.88	NPP
	4/17/2018	5503.80	12.61	NPP	7.95	5495.85	NPP
	8/1/2018	5503.80	12.61	NPP	8.15	5495.65	NPP
	4/2/2019	5503.80	12.63	7.96	7.99	5495.83	0.03
	8/19/2019	5503.80	12.71	7.99	8.10	5495.79	0.11
	5/27/2020	5503.80	12.68	8.27	8.50	5495.48	0.23
	8/4/2020	5503.80	12.67	8.30	8.80	5495.40	0.50
	4/27/2021	5503.80	12.67	8.27	8.67	5495.45	0.40
	8/17/2021	5503.80	12.67	8.18	8.69	5495.52	0.51
	4/11/2022	5503.80	12.67	8.20	8.40	5495.56	0.20
	8/1/2022	5503.80	12.67	8.31	8.32	5495.49	0.01
CW 11+15	4/15/2016	5503.95	12.27	5.91	6.36	5497.95	0.45
	8/15/2016	5503.95	12.27	NPP	5.99	5497.96	NPP
	4/17/2017	5503.95	12.27	5.81	6.23	5498.06	0.42
	8/24/2017	5503.95	12.40	5.91	6.13	5498.00	0.22
	4/17/2018	5503.95	12.29	NPP	6.00	5497.95	NPP
	8/1/2018	5503.95	12.29	6.10	6.14	5497.84	0.04
	4/2/2019	5503.95	12.26	5.91	5.94	5498.03	0.03
	8/19/2019	5503.95	12.35	5.91	5.97	5498.03	0.06
	5/27/2020	5503.95	12.33	6.10	6.15	5497.84	0.05
	8/4/2020	5503.95	12.34	6.00	6.07	5497.94	0.07
	4/27/2021	5503.95	12.34	6.00	6.03	5497.94	0.03
	8/17/2021	5503.95	12.34	6.00	6.04	5497.94	0.04
	4/11/2022	5503.95	12.34	5.98	6.00	5497.97	0.02

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CW 11+15	8/1/2022	5503.95	12.34	6.14	6.16	5497.81	0.02
CW 14+10	4/15/2016	5504.39	13.05	NPP	6.25	5498.14	NPP
	8/15/2016	5504.39	13.05	NPP	6.29	5498.10	NPP
	4/17/2017	5504.39	13.05	NPP	6.39	5498.00	NPP
	8/24/2017	5504.39	13.05	NPP	6.50	5497.89	NPP
	4/17/2018	5504.39	13.04	NPP	6.52	5497.87	NPP
	8/1/2018	5504.39	13.04	NPP	6.48	5497.91	NPP
	4/2/2019	5504.39	13.04	NPP	6.35	5498.04	NPP
	8/19/2019	5504.39	13.12	NPP	6.52	5497.87	NPP
	5/27/2020	5504.39	12.99	NPP	6.65	5497.74	NPP
	8/4/2020	5504.39	12.99	NPP	6.55	5497.84	NPP
	4/27/2021	5504.39	12.99	NPP	6.59	5497.80	NPP
	8/17/2021	5504.39	12.99	NPP	6.61	5497.78	NPP
	4/11/2022	5504.39	12.99	NPP	6.51	5497.88	NPP
	8/1/2022	5504.39	12.99	NPP	6.50	5497.89	NPP
CW 16+60	4/15/2016	5504.32	12.86	NPP	6.20	5498.12	NPP
	8/15/2016	5504.32	12.86	NPP	6.09	5498.23	NPP
	4/17/2017	5504.32	12.86	NPP	6.20	5498.12	NPP
	8/24/2017	5504.32	12.86	NPP	6.24	5498.08	NPP
	4/17/2018	5504.32	12.88	NPP	6.33	5497.99	NPP
	8/1/2018	5504.32	12.88	NPP	6.30	5498.02	NPP
	4/2/2019	5504.32	12.92	NPP	6.23	5498.09	NPP
	8/19/2019	5504.32	12.97	NPP	7.39	5496.93	NPP
	5/27/2020	5504.32	12.97	NPP	6.35	5497.97	NPP
	8/4/2020	5504.32	12.97	NPP	6.40	5497.92	NPP
	4/27/2021	5504.32	12.97	NPP	6.42	5497.90	NPP
	8/17/2021	5504.32	12.97	NPP	6.35	5497.97	NPP
	4/11/2022	5504.32	12.97	NPP	6.33	5497.99	NPP
	8/1/2022	5504.32	12.97	NPP	6.26	5498.06	NPP
CW 19+50	4/15/2016	5504.52	9.99	NPP	6.16	5498.36	NPP
	8/15/2016	5504.52	9.99	NPP	6.18	5498.34	NPP
	4/17/2017	5504.52	9.99	NPP	6.18	5498.34	NPP
	8/24/2017	5504.52	9.99	NPP	6.25	5498.27	NPP
	4/17/2018	5504.52	9.97	NPP	6.30	5498.22	NPP
	8/1/2018	5504.52	9.97	NPP	6.30	5498.22	NPP
	4/2/2019	5504.52	10.00	NPP	6.24	5498.28	NPP
	8/19/2019	5504.52	10.05	NPP	6.39	5498.13	NPP
	5/27/2020	5504.52	10.04	NPP	6.30	5498.22	NPP
	8/4/2020	5504.52	10.04	NPP	6.31	5498.21	NPP
	4/27/2021	5504.52	10.04	NPP	6.33	5498.19	NPP
	8/17/2021	5504.52	10.04	NPP	6.31	5498.21	NPP
	4/11/2022	5504.52	10.04	NPP	6.30	5498.22	NPP
	8/1/2022	5504.52	10.04	NPP	6.30	5498.22	NPP
CW 22+00	4/15/2016	5508.04	12.34	NPP	8.73	5499.31	NPP
	8/15/2016	5508.04	12.34	NPP	8.57	5499.47	NPP
	4/17/2017	5508.04	12.34	NPP	8.71	5499.33	NPP
	8/24/2017	5508.04	12.34	NPP	8.81	5499.23	NPP
	4/17/2018	5508.04	12.35	NPP	8.91	5499.13	NPP
	8/1/2018	5508.04	12.35	NPP	8.96	5499.08	NPP

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CW 22+00	4/2/2019	5508.04	12.35	NPP	8.84	5499.20	NPP
	8/19/2019	5508.04	12.43	NPP	8.83	5499.21	NPP
	5/27/2020	5508.04	12.27	NPP	8.70	5499.34	NPP
	8/4/2020	5508.04	12.40	NPP	8.60	5499.44	NPP
	4/27/2021	5508.04	12.40	NPP	8.89	5499.15	NPP
	8/17/2021	5508.04	12.40	NPP	13.38	5494.66	NPP
	4/11/2022	5508.04	12.40	NPP	9.20	5498.84	NPP
	8/1/2022	5508.04	12.40	NPP	9.05	5498.99	NPP
CW 23+10	4/15/2016	5508.04	14.65	NPP	10.31	5497.73	NPP
	8/15/2016	5508.04	14.65	NPP	10.14	5497.90	NPP
	4/17/2017	5510.04	14.65	NPP	10.32	5499.72	NPP
	8/24/2017	5510.04	14.65	NPP	7.77	5502.27	NPP
	4/17/2018	5510.04	14.80	NPP	10.55	5499.49	NPP
	8/1/2018	5510.04	14.80	NPP	10.60	5499.44	NPP
	4/2/2019	5510.04	14.64	NPP	10.40	5499.64	NPP
	8/19/2019	5510.04	14.82	NPP	10.33	5499.71	NPP
	5/26/2020	5510.04	14.84	NPP	10.24	5499.80	NPP
	8/4/2020	5510.04	14.72	NPP	9.90	5500.14	NPP
	4/27/2021	5510.04	14.72	NPP	10.50	5499.54	NPP
	8/17/2021	5510.04	14.72	NPP	10.45	5499.59	NPP
	4/11/2022	5510.04	14.72	NPP	11.86	5498.18	NPP
	8/1/2022	5510.04	14.72	NPP	10.65	5499.39	NPP
CW 23+90	4/15/2016	5507.32	11.72	NPP	7.82	5499.50	NPP
	8/15/2016	5507.32	11.72	NPP	7.61	5499.71	NPP
	4/17/2017	5507.32	11.72	NPP	7.77	5499.55	NPP
	8/24/2017	5507.32	11.72	NPP	8.10	5499.22	NPP
	4/17/2018	5507.32	11.71	NPP	7.95	5499.37	NPP
	8/1/2018	5507.32	11.70	NPP	7.95	5499.37	NPP
	4/2/2019	5507.32	11.77	NPP	7.85	5499.47	NPP
	8/19/2019	5507.32	11.81	NPP	7.79	5499.53	NPP
	5/26/2020	5507.32	11.81	NPP	7.69	5499.63	NPP
	8/4/2020	5507.32	11.81	NPP	7.40	5499.92	NPP
	4/27/2021	5507.32	11.81	NPP	7.92	5499.40	NPP
	8/17/2021	5507.32	11.81	NPP	7.64	5499.68	NPP
	4/11/2022	5507.32	11.81	NPP	8.20	5499.12	NPP
	8/1/2022	5507.32	11.81	NPP	8.01	5499.31	NPP
CW 25+95	4/15/2016	5505.90	12.25	NPP	8.10	5497.80	NPP
	8/15/2016	5505.90	12.25	NPP	7.15	5498.75	NPP
	4/17/2017	5505.90	12.25	NPP	7.21	5498.69	NPP
	8/24/2017	5505.90	12.25	NPP	7.25	5498.65	NPP
	4/17/2018	5505.90	12.26	NPP	7.30	5498.60	NPP
	8/1/2018	5505.90	12.26	NPP	7.35	5498.55	NPP
	4/4/2019	5505.90	12.25	NPP	7.31	5498.59	NPP
	8/19/2019	5505.90	12.32	NPP	7.35	5498.55	NPP
	5/26/2020	5505.90	12.20	NPP	7.22	5498.68	NPP
	8/4/2020	5505.90	12.35	NPP	7.15	5498.75	NPP
	4/27/2021	5505.90	12.35	NPP	8.15	5497.75	NPP
	8/17/2021	5505.90	12.35	NPP	8.14	5497.76	NPP
	4/11/2022	5505.90	12.15	NPP	8.51	5497.39	NPP

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CW 25+95	8/1/2022	5505.90	12.15	NPP	8.40	5497.50	NPP
SW1-0206	4/15/2016	5508.27	53.08	NPP	52.58	5455.69	NPP
	8/15/2016	5508.27	53.08	NPP	52.61	5455.66	NPP
	4/17/2017	5508.27	53.08	NPP	52.58	5455.69	NPP
	8/24/2017	5508.27	53.08	NPP	52.58	5455.69	NPP
	4/17/2018	5508.27	53.10	NPP	52.60	5455.67	NPP
	8/1/2018	5508.27	53.10	NPP	52.60	5455.67	NPP
	4/2/2019	5508.27	53.07	NPP	52.57	5455.70	NPP
	8/19/2019	5508.27	53.17	NPP	52.59	5455.68	NPP
	5/27/2020	5508.27	53.16	NPP	52.58	5455.69	NPP
	8/4/2020	5508.27	53.15	NPP	52.60	5455.67	NPP
	4/27/2021	5508.27	53.15	NPP	52.59	5455.68	NPP
	8/17/2021	5508.27	53.15	NPP	52.46	5455.81	NPP
	4/11/2022	5508.27	53.15	NPP	52.38	5455.89	NPP
	8/1/2022	5508.27	53.15	NPP	52.38	5455.89	NPP
SW2-0206	4/15/2016	5508.27	27.69	NPP	25.38	5482.89	NPP
	8/15/2016	5508.27	27.69	NPP	25.43	5482.84	NPP
	4/17/2017	5508.27	27.69	NPP	24.90	5483.37	NPP
	8/24/2017	5508.27	27.69	NPP	24.80	5483.47	NPP
	4/17/2018	5508.27	27.70	NPP	24.56	5483.71	NPP
	8/1/2018	5508.27	27.72	NPP	24.87	5483.40	NPP
	4/2/2019	5508.27	27.70	NPP	24.77	5483.50	NPP
	8/19/2019	5508.27	27.80	NPP	25.32	5482.95	NPP
	5/27/2020	5508.27	27.78	NPP	25.42	5482.85	NPP
	8/4/2020	5508.27	27.78	NPP	25.45	5482.82	NPP
	4/27/2021	5508.27	27.78	NPP	27.78	5480.49	NPP
	8/17/2021	5508.27	27.78	NPP	25.40	5482.87	NPP
	4/11/2022	5508.27	27.78	NPP	25.31	5482.96	NPP
	8/1/2022	5508.27	27.78	NPP	25.55	5482.72	NPP
SW3-0206	4/15/2016	5505.29	52.56	NPP	26.56	5478.73	NPP
	8/15/2016	5505.29	52.56	NPP	26.36	5478.93	NPP
	4/17/2017	5505.29	52.56	NPP	26.55	5478.74	NPP
	8/24/2017	5505.29	52.56	NPP	26.42	5478.87	NPP
	4/17/2018	5505.29	52.58	NPP	26.50	5478.79	NPP
	8/1/2018	5505.29	52.58	NPP	26.90	5478.39	NPP
	4/2/2019	5505.29	52.54	NPP	26.61	5478.68	NPP
	8/19/2019	5505.29	52.62	NPP	27.03	5478.26	NPP
	5/27/2020	5505.29	52.64	NPP	27.22	5478.07	NPP
	8/4/2020	5505.29	52.64	NPP	27.20	5478.09	NPP
	4/27/2021	5505.29	52.64	NPP	27.01	5478.28	NPP
	8/17/2021	5505.29	52.64	NPP	27.23	5478.06	NPP
	4/11/2022	5505.29	52.64	NPP	26.98	5478.31	NPP
	8/1/2022	5505.29	52.64	NPP	27.15	5478.14	NPP
SW4-0206	4/15/2016	5504.45	42.34	NPP	32.71	5471.74	NPP
	8/15/2016	5504.45	42.34	NPP	33.08	5471.37	NPP
	4/17/2017	5504.45	42.34	NPP	32.72	5471.73	NPP
	8/24/2017	5504.45	42.34	NPP	33.09	5471.36	NPP
	4/17/2018	5504.45	42.35	NPP	32.70	5471.75	NPP
	8/1/2018	5504.45	42.35	NPP	33.10	5471.35	NPP

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Well ID	Date	Measuring Point Elevation (ft amsl)	Total Well Depth (ft below TOC)	Depth To Product (ft below TOC)	Depth To Water (ft below TOC)	Corrected Groundwater Elevation (ft amsl)	SPH Thickness (ft)
SW4-0206	4/2/2019	5504.45	42.33	NPP	32.88	5471.57	NPP
	8/19/2019	5504.45	42.40	NPP	33.60	5470.85	NPP
	5/27/2020	5504.45	42.41	NPP	32.25	5472.20	NPP
	8/4/2020	5504.45	42.40	NPP	33.60	5470.85	NPP
	4/27/2021	5504.45	42.40	NPP	33.22	5471.23	NPP
	8/17/2021	5504.45	42.40	NPP	33.76	5470.69	NPP
	4/11/2022	5504.45	42.40	NPP	NWP	NWP	NPP
	8/1/2022	5504.45	42.40	NPP	33.82	5470.63	NPP
SW5-0206	4/15/2016	5514.34	52.24	NPP	33.93	5480.41	NPP
	8/15/2016	5514.34	52.24	NPP	34.03	5480.31	NPP
	4/17/2017	5514.34	52.24	NPP	33.29	5481.05	NPP
	8/24/2017	5514.34	52.24	NPP	34.04	5480.30	NPP
	4/17/2018	5514.34	52.27	NPP	33.85	5480.49	NPP
	8/1/2018	5514.34	52.25	NPP	34.26	5480.08	NPP
	4/2/2019	5514.34	52.18	NPP	33.38	5480.96	NPP
	8/19/2019	5514.34	52.34	NPP	33.99	5480.35	NPP
	5/27/2020	5514.34	52.21	NPP	34.23	5480.11	NPP
	8/4/2020	5514.34	52.33	NPP	34.40	5479.94	NPP
	4/27/2021	5514.34	52.33	NPP	33.89	5480.45	NPP
	8/17/2021	5514.34	52.33	NPP	34.52	5479.82	NPP
	4/11/2022	5514.34	52.33	NPP	33.86	5480.48	NPP
	8/1/2022	5514.34	52.33	NPP	34.24	5480.10	NPP
SW6-0206	4/15/2016	5519.72	47.41	NPP	39.40	5480.32	NPP
	8/15/2016	5519.72	47.41	NPP	NWP	NWP	NPP
	4/17/2017	5519.72	47.41	NPP	39.06	5480.66	NPP
	8/24/2017	5519.72	47.43	NPP	40.92	5478.80	NPP
	4/17/2018	5519.72	47.44	NPP	38.52	5481.20	NPP
	8/1/2018	5519.72	47.43	NPP	39.75	5479.97	NPP
	4/2/2019	5519.72	47.41	NPP	38.68	5481.04	NPP
	8/19/2019	5519.72	47.35	NPP	40.43	5479.29	NPP
	5/27/2020	5519.72	47.40	NPP	39.82	5479.90	NPP
	8/4/2020	5519.72	47.48	NPP	40.85	5478.87	NPP
	4/27/2021	5519.72	47.48	NPP	39.60	5480.12	NPP
	8/17/2021	5519.72	47.48	NPP	41.15	5478.57	NPP
	4/11/2022	5519.72	47.48	NPP	40.85	5478.87	NPP
	8/1/2022	5519.72	47.48	NPP	41.21	5478.51	NPP
SW7-0206	4/15/2016	5517.63	32.95	NPP	20.48	5497.15	NPP
	8/15/2016	5517.63	32.95	NPP	20.76	5496.87	NPP
	4/17/2017	5517.63	32.95	NPP	20.83	5496.80	NPP
	8/24/2017	5517.63	32.00	NPP	20.71	5496.92	NPP
	4/17/2018	5517.63	32.07	NPP	20.56	5497.07	NPP
	8/1/2018	5517.63	32.08	NPP	20.95	5496.68	NPP
	4/2/2019	5517.63	32.05	NPP	20.53	5497.10	NPP
	8/19/2019	5517.63	32.11	NPP	20.99	5496.64	NPP
	5/27/2020	5517.63	32.02	NPP	21.28	5496.35	NPP
	8/4/2020	5517.63	32.12	NPP	21.20	5496.43	NPP
	4/27/2021	5517.63	32.12	NPP	20.93	5496.70	NPP
	8/17/2021	5517.63	32.13	NPP	21.02	5496.61	NPP
	4/11/2022	5517.63	32.12	NM	NM	NM	NM

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TABLE 1
FLUID LEVELS
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Well ID	Date	Measuring Point Elevation (ft amsl)	Total Well Depth (ft below TOC)	Depth To Product (ft below TOC)	Depth To Water (ft below TOC)	Corrected Groundwater Elevation (ft amsl)	SPH Thickness (ft)
SW7-0206	8/1/2022	5517.63	32.13	NPP	21.41	5496.22	NPP
MP-1	5/28/2020	5526.34	29.85	26.15	26.91	5500.04	0.76
	8/4/2020	5526.34	29.84	26.15	26.82	5500.06	0.67
	4/26/2021	5526.34	29.84	26.14	26.86	5500.06	0.72
	8/16/2021	5526.34	29.84	26.21	27.04	5499.96	0.83
	4/11/2022	5526.34	29.84	26.25	27.11	5499.92	0.86
	8/1/2022	5526.34	29.84	26.33	27.27	5499.82	0.94
MP-2	5/28/2020	5526.34	29.75	27.10	27.13	5499.23	0.03
	8/4/2020	5526.34	29.75	NPP	27.07	5499.27	NPP
	4/26/2021	5526.34	29.75	26.96	27.06	5499.36	0.10
	8/16/2021	5526.34	29.75	27.15	27.21	5499.18	0.06
	4/11/2022	5526.34	29.75	27.02	27.22	5499.28	0.20
	8/1/2022	5526.34	29.75	27.28	27.32	5499.05	0.04
MP-3	5/28/2020	5528.75	30.72	28.28	28.45	5500.44	0.17
	8/4/2020	5528.75	30.68	28.27	28.28	5500.48	0.01
	4/26/2021	5528.75	30.68	NPP	21.24	5507.51	NPP
	8/16/2021	5528.75	30.68	28.31	28.66	5500.37	0.35
	4/11/2022	5528.75	30.68	28.41	28.82	5500.26	0.41
	8/1/2022	5528.75	30.68	28.51	29.15	5500.11	0.64
MP-4	5/28/2020	5528.75	31.99	28.07	29.30	5500.43	1.23
	8/4/2020	5528.75	32.98	28.06	29.25	5500.45	1.19
	4/26/2021	5528.75	32.98	27.65	28.09	5501.01	0.44
	8/16/2021	5528.75	32.98	28.15	29.45	5500.34	1.30
	4/11/2022	5528.75	32.98	28.25	29.52	5500.25	1.27
	8/1/2022	5528.75	32.98	28.38	29.77	5500.09	1.39
MP-5	5/28/2020	5528.75	31.65	27.72	28.85	5500.80	1.13
	8/4/2020	5528.75	31.67	27.69	28.45	5500.91	0.76
	4/26/2021	5528.75	31.67	NPP	27.71	5501.04	NPP
	8/16/2021	5528.75	31.67	27.80	28.70	5500.77	0.90
	4/11/2022	5528.75	31.67	27.88	28.90	5500.67	1.02
	8/1/2022	5528.75	31.67	27.98	29.10	5500.55	1.12
AS-1	5/28/2020	5526.34	29.45	NPP	26.25	5500.09	NPP
	8/4/2020	5526.34	29.41	NPP	26.12	5500.22	NPP
	4/27/2021	5526.34	29.41	NPP	26.19	5500.15	NPP
	8/16/2021	5526.34	29.41	NPP	26.26	5500.08	NPP
	4/11/2022	5526.34	29.41	NPP	26.28	5500.06	NPP
	8/1/2022	5526.34	29.41	NPP	26.35	5499.99	NPP
VEW-1S	5/28/2020	5526.34	12.81	NPP	NWP	NWP	NPP
	8/4/2020	5526.34	12.82	NPP	NWP	NWP	NPP
	4/27/2021	5526.34	12.82	NPP	NWP	NWP	NPP
	8/16/2021	5526.34	12.82	NPP	NWP	NWP	NPP
	4/11/2022	5526.34	12.82	NPP	NWP	NWP	NPP
	8/1/2022	5526.34	12.82	NPP	NWP	NWP	NPP
VEW-1D	5/28/2020	5526.34	25.80	NPP	NWP	NWP	NPP
	8/4/2020	5526.34	25.82	NPP	NWP	NWP	NPP
	4/27/2021	5526.34	25.82	NPP	NWP	NWP	NPP
	8/16/2021	5526.34	25.82	NPP	NWP	NWP	NPP
	4/11/2022	5526.34	25.82	NPP	NWP	NWP	NPP
	8/1/2022	5526.34	25.82	NPP	NWP	NWP	NPP

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Well ID	Date	Measuring Point Elevation *(ft amsl)*	Total Well Depth *(ft below TOC)*	Depth To Product *(ft below TOC)*	Depth To Water *(ft below TOC)*	Corrected Groundwater Elevation *(ft amsl)*	SPH Thickness *(ft)*

Notes:

	= Wells gauged during quarterly gauging event
Red	= Product detected during gauging event
MW =	Monitor Well
RW =	Recovery Well
OW =	Observation Well
CW =	Collection Well
*SW =	Wells sampled during significant rain events only
BCK =	Background Well
MP =	Monitor Point
AS =	Air Sparge
VEW =	Vapor Extraction Well
ft =	feet
amsl =	above mean sea level
NPP =	No Product Present
NWP =	No Water Present
SPH =	Separate phase hydrocarbon
NM =	Not Measured
TOC =	Top of Casing

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TABLE 2
FIELD PARAMETERS SUMMARY
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Location ID	Date	Temperature (°C)	pH	Electrical Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Total Dissolved Solids (mg/L)
Terminal Wells							
MW-4	8/24/2015	17.53	7.05	2.706	-110.7	2.23	1759
	8/23/2016	17.69	6.91	2.438	-104.6	5.15	1556
	4/21/2017	NS	NS	NS	NS	NS	NS
	8/24/2017	NS	NS	NS	NS	NS	NS
	8/10/2018	NS	NS	NS	NS	NS	NS
	8/20/2019	NS	NS	NS	NS	NS	NS
	8/10/2020	19.22	6.90	2.648	-113.9	1.10	1722
	8/16/2021	19.42	7.32	2.920	-71	0.00	2150
	8/3/2022	26.00	6.50	2.970	-186	0.00	2060^
MW-8	4/20/2015	NS	NS	NS	NS	NS	NS
	8/18/2015	NS	NS	NS	NS	NS	NS
	4/20/2016	NS	NS	NS	NS	NS	NS
	8/22/2016	15.23	8.04	2.149	107.2	2.72	1.398
	4/21/2017	14.32	7.68	2.514	43.2	4.14	1.633
	8/24/2017	NS	NS	NS	NS	NS	NS
	7/10/1905	Well is not scheduled to be sampled					
	7/11/1905	Well is not scheduled to be sampled					
	7/12/1905	Well is not scheduled to be sampled					
	7/13/1905	Well is not scheduled to be sampled					
	7/14/1905	Well is not scheduled to be sampled					
MW-20	4/20/2015	NS	NS	NS	NS	NS	NS
	8/24/2015	NS	NS	NS	NS	NS	NS
	4/15/2016	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	4/21/2017	NS	NS	NS	NS	NS	NS
	8/24/2017	NS	NS	NS	NS	NS	NS
	4/18/2018	NS	NS	NS	NS	NS	NS
	8/1/2018	NS	NS	NS	NS	NS	NS
	4/1/2019	NS	NS	NS	NS	NS	NS
	8/20/2019	NS	NS	NS	NS	NS	NS
	8/10/2020	NS	NS	NS	NS	NS	NS
	8/23/2021	NS	NS	NS	NS	NS	NS
	4/11/2022	Sheen Observed - Could Not Sample					
	8/2/2022	Sheen Observed - Could Not Sample					
MW-21	4/20/2015	NS	NS	NS	NS	NS	NS
	8/24/2015	NS	NS	NS	NS	NS	NS
	4/20/2016	NS	NS	NS	NS	NS	NS
	8/23/2016	16.20	7.32	4.165	52.8	1.83	2.704
	4/21/2017	NS	NS	NS	NS	NS	NS
	8/24/2017	NS	NS	NS	NS	NS	NS
	8/13/2018	16.17	7.01	3.933	-68.3	0.59	2554
	8/20/2019	NS	NS	NS	NS	NS	NS
	8/10/2020	19.50	6.67	3.493	-187.2	0.56	2268
	8/20/2021	19.23	6.67	2.510	-146.0	0.89	1870
	8/4/2022	20.65	5.72	3.880	-255.0	0.43	NS
MW-29	4/20/2015	NS	NS	NS	NS	NS	NS
	8/24/2015	16.50	7.49	0.961	-16.0	1.81	624
	4/20/2016	NS	NS	NS	NS	NS	NS
	8/23/2016	20.40	7.52	1.021	56.0	4.63	663

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Location ID	Date	Temperature (°C)	pH	Electrical Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Total Dissolved Solids (mg/L)
MW-29	4/21/2017	NS	NS	NS	NS	NS	NS
	8/24/2017	17.75	7.09	2.305	71.6	1.80	1638
	8/8/2018	17.00	7.07	1.840	200.0	2.29	1202
	8/23/2019	16.39	6.91	0.940	158.0	1.25	735
	8/10/2020	19.78	7.03	1.450	186.1	0.60	942
	8/20/2021	17.54	5.56	0.876	137.0	0.00	679
	8/2/2022	24.53	6.73	3.110	74.0	0.00	2160^
MW-30	4/20/2015	NS	NS	NS	NS	NS	NS
	8/24/2015	16.77	7.19	3.009	-236.3	1.79	1957
	4/21/2016	18.03	7.75	3.582	-260.5	2.19	2329
	8/23/2016	16.95	7.08	2.757	-247.5	4.05	1784
	4/21/2017	12.10	7.28	3.338	-61.4	5.17	2168
	8/24/2017	NS	NS	NS	NS	NS	NS
	4/18/2018	NS	NS	NS	NS	NS	NS
	8/10/2018	NS	NS	NS	NS	NS	NS
	4/4/2019	NS	NS	NS	NS	NS	NS
	8/20/2019	NS	NS	NS	NS	NS	NS
	8/10/2020	23.11	7.02	2.872	-309.1	0	1930.5
	4/28/2021	NS	NS	NS	NS	NS	NS
	8/19/2021	NS	NS	NS	NS	NS	NS
	4/11/2022	Sheen Observed - Could Not Sample					
	8/2/2022	Sheen Observed - Could Not Sample					
MW-31	4/20/2015	NS	NS	NS	NS	NS	NS
	8/24/2015	NS	NS	NS	NS	NS	NS
	4/20/2016	NS	NS	NS	NS	NS	NS
	8/22/2016	17.43	8.10	3.048	7.8	2.11	1983
	4/21/2017	NS	NS	NS	NS	NS	NS
	8/25/2017	17.00	7.25	2.647	-63.1	1.49	1722
	8/7/2018	18.56	7.08	2.797	-143.8	1.09	1820
	8/22/2019	18.39	7.01	2.428	-139.7	2.15	1794
	8/12/2020	18.83	7.10	2.131	-195.1	0.56	1567
	8/24/2021	19.41	6.81	2.090	-219.0	0.59	1610
	8/2/2022	20.88	5.52	2.210	-180.0	0.00	1760^
MW-40	4/20/2015	NS	NS	NS	NS	NS	NS
	8/24/2015	NS	NS	NS	NS	NS	NS
	4/20/2016	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	4/21/2017	NS	NS	NS	NS	NS	NS
	8/24/2017	NS	NS	NS	NS	NS	NS
	8/10/2018	NS	NS	NS	NS	NS	NS
	8/20/2019	NS	NS	NS	NS	NS	NS
	8/7/2020	20.33	7.11	2.589	-85.2	9.05	1852
	8/18/2021	21.45	6.15	2.360	-70.0	0.50	1740
	8/1/2022	FPP - Could Not Sample					
MW-44	4/20/2015	NS	NS	NS	NS	NS	NS
	8/24/2015	16.27	7.26	5.750	-97.8	1.93	3740
	4/20/2016	NS	NS	NS	NS	NS	NS
	8/23/2016	16.29	7.30	3.460	-15.8	5.87	2.253
	4/21/2017	NS	NS	NS	NS	NS	NS
	8/24/2017	17.52	7.10	2.919	-6.0	2.00	1974

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Location ID	Date	Temperature (°C)	pH	Electrical Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Total Dissolved Solids (mg/L)
MW-44	8/7/2018	17.39	7.04	6.072	134.4	2.08	3945
	8/22/2019	17.44	6.71	5.228	-4.4	2.14	3958
	8/10/2020	18.39	7.04	3.868	45.3	3.10	2873
	8/19/2021	18.31	7.09	5.200	108.0	1.91	5000
	8/1/2022	18.75	7.00	5.240	50.0	0.00	4860^
MW-52	8/17/2015	15.13	7.02	4.172	62.7	1.92	2713
	8/22/2016	15.58	7.63	5.336	109.6	2.81	3469
	4/21/2017	14.78	7.30	4.912	120.6	3.87	3193
	8/24/2017	16.67	6.88	4.891	180.0	2.10	3180
	4/18/2018	14.78	6.99	4.916	141.0	2.33	3198
	8/8/2018	16.61	6.77	5.589	187.2	1.33	3581
	8/23/2019	16.11	6.70	4.519	19.9	2.30	3530
	8/10/2020	16.72	7.24	2.604	118.9	3.82	2008.5
	4/28/2021	15.20	6.16	3.510	-32.0	3.51	2870
	8/18/2021	19.96	5.43	4.290	105.0	0.36	3180
	4/13/2022	13.91	6.78	5.000	99.0	5.98	3780^
	8/2/2022	21.69	6.25	5.320	168.0	0.00	4190^
RW-1	4/20/2015	NS	NS	NS	NS	NS	NS
	8/24/2015	NS	NS	NS	NS	NS	NS
	4/20/2016	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	4/21/2017	NS	NS	NS	NS	NS	NS
	8/24/2017	NS	NS	NS	NS	NS	NS
	8/9/2018	NS	NS	NS	NS	NS	NS
	8/19/2019	NS	NS	NS	NS	NS	NS
	8/7/2020	19.50	7.02	3.154	-285.9	2.12	2288
	8/18/2021	23.33	5.99	2.120	-99.0	1.38	1510
	8/1/2022	26.52	6.58	3.570	-149.0	0.00	NS
RW-9	4/20/2015	NS	NS	NS	NS	NS	NS
	8/24/2015	NS	NS	NS	NS	NS	NS
	4/20/2016	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	4/21/2017	NS	NS	NS	NS	NS	NS
	8/24/2017	NS	NS	NS	NS	NS	NS
	8/1/2018	NS	NS	NS	NS	NS	NS
	8/20/2019	NS	NS	NS	NS	NS	NS
	8/8/2020	NS	NS	NS	NS	NS	NS
	8/18/2021	NS	NS	NS	NS	NS	NS
	8/2/2022	Sheen Observed - Could Not Sample					
RW-15	4/20/2015	NS	NS	NS	NS	NS	NS
	8/24/2015	NS	NS	NS	NS	NS	NS
	4/20/2016	NS	NS	NS	NS	NS	NS
	8/23/2016	16.19	7.67	2.472	-123.8	6.48	1601
	4/21/2017	NS	NS	NS	NS	NS	NS
	8/24/2017	NS	NS	NS	NS	NS	NS
	8/10/2018	NS	NS	NS	NS	NS	NS
	8/20/2019	NS	NS	NS	NS	NS	NS
	8/10/2020	17.78	7.20	2.218	-91.9	6.23	1690
	8/19/2021	17.72	7.40	3.040	-66.0	0.61	2130
	8/1/2022	FPP - Could Not Sample					

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Location ID	Date	Temperature (°C)	pH	Electrical Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Total Dissolved Solids (mg/L)
RW-18	4/20/2015	NS	NS	NS	NS	NS	NS
	8/24/2015	NS	NS	NS	NS	NS	NS
	4/20/2016	NS	NS	NS	NS	NS	NS
	8/23/2016	17.23	7.49	3.666	4.6	0.66	2.383
	4/21/2017	NS	NS	NS	NS	NS	NS
	8/24/2017	NS	NS	NS	NS	NS	NS
	8/10/2018	NS	NS	NS	NS	NS	NS
	8/20/2019	NS	NS	NS	NS	NS	NS
	8/8/2020	NS	NS	NS	NS	NS	NS
	8/19/2021	NS	NS	NS	NS	NS	NS
	8/2/2022	Well cannot be accessed					
RW-23	4/20/2015	NS	NS	NS	NS	NS	NS
	8/24/2015	NS	NS	NS	NS	NS	NS
	4/20/2016	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	4/21/2017	NS	NS	NS	NS	NS	NS
	8/24/2017	NS	NS	NS	NS	NS	NS
	8/1/2018	NS	NS	NS	NS	NS	NS
	8/20/2019	NS	NS	NS	NS	NS	NS
	8/12/2020	17.72	6.89	2.355	-128.3	0.40	1534
	8/19/2021	NS	NS	NS	NS	NS	NS
	8/2/2022	Sheen Observed - Could Not Sample					
RW-28	4/20/2015	NS	NS	NS	NS	NS	NS
	8/24/2015	NS	NS	NS	NS	NS	NS
	4/20/2016	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	4/21/2017	NS	NS	NS	NS	NS	NS
	8/24/2017	NS	NS	NS	NS	NS	NS
	8/1/2018	NS	NS	NS	NS	NS	NS
	8/19/2019	NS	NS	NS	NS	NS	NS
	8/8/2020	NS	NS	NS	NS	NS	NS
	8/19/2021	NS	NS	NS	NS	NS	NS
	8/2/2022	FPP - Could Not Sample					
RW-42	4/20/2015	NS	NS	NS	NS	NS	NS
	8/24/2015	NS	NS	NS	NS	NS	NS
	4/20/2016	NS	NS	NS	NS	NS	NS
	8/24/2016	17.79	7.60	2.325	-228.7	5.07	1.511
	4/21/2017	NS	NS	NS	NS	NS	NS
	8/24/2017	NS	NS	NS	NS	NS	NS
	8/10/2018	NS	NS	NS	NS	NS	NS
	8/20/2019	NS	NS	NS	NS	NS	NS
	8/11/2020	17.78	6.85	2.112	-88.5	2.60	1593
	8/19/2021	NS	NS	NS	NS	NS	NS
	8/2/2022	Pump running in well - Not able to sample					
RW-43	4/20/2015	NS	NS	NS	NS	NS	NS
	8/24/2015	NS	NS	NS	NS	NS	NS
	4/20/2016	NS	NS	NS	NS	NS	NS
	8/24/2016	19.95	9.50	2.904	-151.1	2.10	1888
	4/21/2017	NS	NS	NS	NS	NS	NS
	8/24/2017	NS	NS	NS	NS	NS	NS

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MW-43	8/1/2018	NS	NS	NS	NS	NS	NS
	8/1/2018	NS	NS	NS	NS	NS	NS
	8/1/2019	NS	NS	NS	NS	NS	NS
	8/8/2020	NS	NS	NS	NS	NS	NS
	8/19/2021	NS	NS	NS	NS	NS	NS
	8/2/2022	FPP - Could Not Sample					
Cross-Gradient Wells							
MW-1	4/20/2015	13.00	7.62	0.992	86.9	4.80	646
	8/18/2015	17.63	7.74	0.852	47.4	2.10	555
	4/21/2016	13.47	8.41	0.863	32.3	3.57	561
	8/19/2016	17.13	8.09	0.685	57.4	3.81	444
	4/20/2017	14.25	7.99	0.827	233.4	3.01	538
	8/25/2017	18.09	7.35	0.765	126.1	2.08	496
	4/18/2018	11.78	7.19	0.796	102.7	2.91	520
	8/6/2018	15.94	7.11	0.872	168.0	3.40	592
	4/3/2019	12.50	6.97	0.905	124.2	3.80	592
	8/21/2019	16.33	7.12	0.676	75.7	0.65	526
	8/10/2020	16.83	7.15	0.697	268.0	0.34	456
	4/28/2021	16.57	6.39	0.635	53.0	9.45	435
	8/16/2021	18.14	7.58	0.674	13.0	2.30	516
	4/13/2022	12.19	6.96	0.802	-63.0	4.58	440^
	8/4/2022	17.48	5.49	0.808	-82.0	0.00	546^
MW-13	4/20/2015	16.50	7.19	4.588	80.6	3.17	2981
	8/18/2015	18.40	7.28	3.986	28.8	1.99	2591
	4/21/2016	17.56	7.46	3.698	0.0	1.66	2404
	8/19/2016	16.95	7.84	3.560	84.7	2.30	2314
	4/20/2017	17.45	7.45	3.561	195.6	1.86	2314
	8/25/2017	16.68	7.10	3.528	114.7	1.81	2294
	4/18/2018	16.17	7.11	3.556	129.0	1.61	2314
	8/6/2018	16.83	7.07	4.038	170.6	0.90	2620
	4/3/2019	16.39	7.14	3.747	133.0	1.77	2437
	8/21/2019	16.89	7.07	3.140	144.9	2.14	2418
	8/10/2020	23.17	7.01	2.824	-1.2	0.78	1905
	4/28/2021	16.89	6.25	2.740	7.0	3.99	2090
	8/23/2021	21.01	7.15	3.390	3.0	2.27	2650
	4/13/2022	15.11	6.72	2.890	23.0	6.35	2040^
	8/5/2022	19.25	6.23	3.110	-57.0	0.00	2470^
MW-26	4/20/2015	NS	NS	NS	NS	NS	NS
	8/18/2015	NS	NS	NS	NS	NS	NS
	4/21/2016	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	4/20/2017	NS	NS	NS	NS	NS	NS
	8/28/2017	NS	NS	NS	NS	NS	NS
	8/2/2018	NS	NS	NS	NS	NS	NS
	8/19/2019	NS	NS	NS	NS	NS	NS
	8/8/2020	NS	NS	NS	NS	NS	NS
	8/17/2021	22.26	6.44	2.540	-88.0	0.00	1830
	8/9/2022	19.01	6.31	2.940	-130.0	0.00	1870^
MW-27	4/20/2015	NS	NS	NS	NS	NS	NS
	8/18/2015	NS	NS	NS	NS	NS	NS

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MW-27	4/21/2016	NS	NS	NS	NS	NS	NS
	4/21/2016	NS	NS	NS	NS	NS	NS
	8/19/2016	16.00	7.79	5.598	-122.5	2.30	3640
	8/28/2017	17.28	7.05	5.587	-49.2	1.28	3633
	8/6/2018	18.72	7.03	8.295	262.3	1.55	5395
	8/21/2019	17.72	6.90	6.421	105.7	6.96	4849
	8/27/2019	18.22	6.95	6.774	-103.0	2.59	5057
	8/11/2020	19.72	6.78	6.947	258.8	0.70	4511
	8/23/2021	21.80	6.71	5.930	79.0	6.40	6810
	8/9/2022	20.21	6.50	7.120	-49.0	0.00	6460^
MW-32	4/20/2015	NS	NS	NS	NS	NS	NS
	8/18/2015	15.83	7.71	5.171	41.5	8.00	3363
	4/21/2016	NS	NS	NS	NS	NS	NS
	4/21/2016	NS	NS	NS	NS	NS	NS
	8/19/2016	14.85	8.32	5.094	77.7	6.86	3309
	8/28/2017	17.83	7.44	4.694	144.6	7.20	3055
	8/6/2018	15.56	7.64	5.818	232.8	6.98	3777
	8/21/2019	15.94	7.69	4.297	97.1	13.13	3373
	8/23/2021	19.84	7.26	4.450	82.0	5.02	3880
	8/9/2022	24.40	7.18	5.140	32.0	6.15	4170^
MW-33	4/20/2015	15.60	7.76	6.078	76.4	7.37	3950
	8/18/2015	17.20	7.45	5.594	42.7	4.84	3633
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/19/2016	15.90	8.49	5.280	70.1	6.11	3429
	4/20/2017	15.66	7.91	5.288	180.0	5.64	3439
	8/28/2017	18.39	7.24	4.947	146.4	4.20	3211
	4/18/2018	15.28	7.58	5.003	145.0	3.32	3243
	8/6/2018	18.61	7.52	5.539	2461.0	2.55	3601
	4/3/2019	15.28	7.74	4.754	141.6	3.71	3094
	8/21/2019	18.11	7.59	4.188	149.3	6.38	3120
	8/11/2020	17.39	7.55	3.966	290.0	2.17	2580
	4/28/2021	17.03	6.92	3.830	43.0	8.93	3670
	8/23/2021	23.13	5.64	3.700	160.0	5.85	3530
	4/12/2022	Sample obtained but insufficient water to collect parameters					3600^
	8/4/2022	Sample obtained but insufficient water to collect parameters					3580^
Downgradient Wells							
MW-11	4/20/2015	NS	NS	NS	NS	NS	NS
	8/19/2015	17.13	7.06	2.221	-99.3	2.28	1443
	4/20/2016	NS	NS	NS	NS	NS	NS
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/18/2016	18.33	7.66	2.203	-61.3	1.77	1432
	8/29/2017	18.35	6.74	2.847	-74.17	1.48	1850
	8/6/2018	16.50	7.05	3.014	-62.6	3.69	1956
	8/21/2019	17.22	7.14	2.328	-95.5	3.64	1774
	8/7/2020	18.70	6.80	3.004	-78.1	1.70	1956
	8/16/2021	NS	NS	NS	NS	NS	NS
	8/2/2022	Could Not Sample - Wasp Nest In Well					
MW-12	4/20/2015	10.97	7.67	0.691	84.8	6.54	449
	8/19/2015	18.73	7.65	0.763	32.7	3.25	496
	4/22/2016	12.93	8.33	0.653	49.5	5.62	425

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MW-12	8/18/2016	18.85	9.49	0.402	42.2	2.55	261
	4/20/2017	12.10	7.99	0.633	151.3	4.26	411
	8/28/2017	20.72	7.28	0.405	124.9	3.48	2639
	4/18/2018	12.44	7.44	1.183	84.4	4.60	773
	8/6/2018	18.61	7.24	0.459	226.1	1.17	298
	4/3/2019	11.00	7.72	0.765	130.0	3.42	500
	8/21/2019	18.00	6.90	0.365	-84.2	4.90	274
	8/7/2020	20.80	7.18	0.386	161.7	0.43	252
	4/28/2021	13.82	6.66	0.672	38.0	3.62	540
	8/17/2021	20.87	6.76	0.307	95.0	2.15	NS
	4/12/2022	10.09	6.83	0.940	126.0	6.03	587^
	8/4/2022	17.96	6.18	0.394	-12.0	0.00	264^
MW-34	4/20/2015	NS	NS	NS	NS	NS	NS
	8/19/2015	16.00	7.26	2.289	-110.8	1.54	1489
	4/20/2016	NS	NS	NS	NS	NS	NS
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/18/2016	15.88	7.88	2.789	-77.5	2.05	1814
	8/29/2017	17.29	7.03	2.853	-84.3	1.81	1854
	8/6/2018	17.72	7.11	3.240	-35.1	2.95	2041
	8/21/2019	17.00	7.07	2.430	-87.8	1.51	1833
	8/10/2020	18.22	6.99	3.309	-92.7	1.12	2132
	8/17/2021	19.01	6.88	2.590	-93.0	0.82	NS
	8/9/2022	17.91	6.54	3.090	-161.0	0.00	2200^
MW-35	8/19/2015	15.73	7.28	2.116	-103.4	1.30	1374
	4/22/2016	15.33	7.64	2.001	-106.9	1.69	1300
	8/18/2016	15.50	8.01	2.331	-86.7	1.97	1515
	4/20/2017	15.55	7.64	2.059	-16.5	1.97	1337
	8/29/2017	16.74	7.10	2.480	-91.3	1.55	1610
	4/18/2018	14.78	7.12	2.100	-78.7	1.19	1365
	8/6/2018	16.67	7.11	2.714	-50.7	1.16	1762
	4/3/2019	14.72	7.08	2.352	-76.4	2.58	1526
	8/21/2019	16.06	7.09	2.044	-87.6	1.36	1599
	8/11/2020	17.67	6.81	2.561	-84.0	3.25	1670
	4/28/2021	16.27	6.45	2.150	-123.0	8.40	1460
	8/21/2021	18.27	7.00	2.370	-104.0	2.20	1820
	4/11/2022	Well Dry - Could Not Sample					
	8/9/2022	18.40	6.17	3.160	-166.0	0.00	2020^
MW-37	4/20/2015	15.67	7.58	2.730	22.1	2.98	1772
	8/19/2015	15.83	7.61	2.417	-118.1	3.62	1571
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/18/2016	15.50	8.12	2.518	-67.1	3.31	1635
	4/20/2017	14.95	7.64	2.296	8.1	3.42	1490
	8/29/2017	17.36	7.36	2.855	-106.7	2.40	1859
	4/18/2018	14.94	7.59	2.200	-63.2	2.14	1450
	8/6/2018	17.72	7.35	2.717	-50.4	2.25	1762
	4/3/2019	15.11	7.41	2.898	17.1	2.94	1885
	8/21/2019	16.83	7.27	2.765	-100.6	2.35	2125
	8/11/2020	29.61	6.58	0.048	185.3	0.19	57
	4/28/2021	16.72	6.66	3.080	-11.0	1.14	2800
	8/21/2021	16.98	7.12	3.380	-49.0	3.88	3090

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MW-37	4/12/2022	13.39	7.27	4.100	19.0	6.55	3320^
	8/4/2022	22.65	7.13	3.820	-59.0	0.00	3620^
MW-38	4/20/2015	15.27	7.76	1.395	10.1	3.13	906
	8/19/2015	15.00	7.55	1.171	-124.7	2.01	761
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/18/2016	15.70	8.42	1.085	-46.5	3.11	705
	4/20/2017	15.27	8.06	1.560	34.9	2.37	1014
	8/29/2017	18.22	7.18	1.610	-95.0	2.00	1047
	4/18/2018	14.72	7.29	1.589	-104.0	1.37	1034
	8/6/2018	16.94	7.19	1.922	-54.2	2.20	1248
	4/3/2019	15.00	7.42	1.616	-75.8	2.67	1053
	8/21/2019	16.06	7.09	1.461	-85.8	0.77	1131
	8/11/2020	19.44	6.41	0.880	17.0	0.03	591
	4/28/2021	16.19	6.68	1.120	-6.0	0.25	755
	8/23/2021	20.88	7.64	1.350	-30.0	1.97	963
	4/12/2022	Insufficient Water to Collect Sample					
	8/9/2022	21.40	6.41	1.550	-131.0	0.00	909^
RCRA Investigation Wells							
MW-50	8/17/2015	NS	NS	NS	NS	NS	NS
	8/23/2016	16.14	8.38	0.590	-123.3	4.99	0.383
	7/9/1905	NS	NS	NS	NS	NS	NS
	7/10/1905	NS	NS	NS	NS	NS	NS
	7/11/1905	NS	NS	NS	NS	NS	NS
	7/12/1905	NS	NS	NS	NS	NS	NS
	7/13/1905	NS	NS	NS	NS	NS	NS
	7/14/1905	NS	NS	NS	NS	NS	NS
MW-51	8/17/2015	14.87	7.31	0.723	70.2	2.55	470
	8/23/2016	16.73	7.67	1.180	-38.6	5.92	732
	8/23/2017	17.17	7.32	0.729	172.0	4.09	429
	8/3/2018	16.00	7.25	0.652	214.1	1.57	423
	7/11/1905	NS	NS	NS	NS	NS	NS
	7/12/1905	NS	NS	NS	NS	NS	NS
	8/16/2021	19.39	7.64	0.525	70.0	0.51	372
	8/3/2022	19.75	6.82	0.661	142.0	0.00	428^
MW-53	8/17/2015	15.43	7.14	5.470	96.0	2.31	3556
	8/24/2016	15.27	7.40	4.393	27.5	4.99	2868
	8/23/2017	15.78	7.28	5.204	189.4	1.43	3395
	8/3/2018	16.39	7.25	5.438	229.9	1.38	3536
	8/23/2019	10.78	7.06	4.658	152.7	1.56	3620
	8/7/2020	23.50	7.90	4.764	-23.1	10.60	3204
	8/18/2021	23.32	6.74	4.800	122.0	1.81	3560
	8/2/2022	19.07	6.81	5.040	142.0	0.00	3560^
MW-54	8/17/2015	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	8/24/2017	NS	NS	NS	NS	NS	NS
	8/9/2018	NS	NS	NS	NS	NS	NS
	8/20/2019	NS	NS	NS	NS	NS	NS
	8/8/2020	NS	NS	NS	NS	NS	NS
	8/16/2021	NS	NS	NS	NS	NS	NS
	8/2/2022	Sheen Observed - Could Not Sample					

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MW-55	8/17/2015	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	8/24/2017	NS	NS	NS	NS	NS	NS
	8/10/2018	NS	NS	NS	NS	NS	NS
	8/20/2019	NS	NS	NS	NS	NS	NS
	8/8/2020	NS	NS	NS	NS	NS	NS
	8/16/2021	NS	NS	NS	NS	NS	NS
	8/2/2022	FPP - Could Not Sample					
MW-56	8/17/2015	NS	NS	NS	NS	NS	NS
	8/23/2016	20.22	7.36	3.032	68.4	1.47	1972
	8/24/2017	NS	NS	NS	NS	NS	NS
	8/1/2018	NS	NS	NS	NS	NS	NS
	8/20/2019	NS	NS	NS	NS	NS	NS
	8/10/2020	21.67	6.91	3.100	-152.0	6.21	2016
	8/16/2021	21.29	7.82	2.390	-75.0	1.55	NS
	8/2/2022	FPP - Could Not Sample					
MW-57	8/17/2015	NS	NS	NS	NS	NS	NS
	8/24/2016	18.67	7.42	3.066	-149.0	2.99	1994
	8/24/2017	NS	NS	NS	NS	NS	NS
	8/1/2018	NS	NS	NS	NS	NS	NS
	8/20/2019	NS	NS	NS	NS	NS	NS
	8/8/2020	NS	NS	NS	NS	NS	NS
	8/16/2021	NS	NS	NS	NS	NS	NS
	8/2/2022	FPP - Could Not Sample					
MW-58	8/17/2015	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	8/24/2017	NS	NS	NS	NS	NS	NS
	8/10/2018	NS	NS	NS	NS	NS	NS
	8/20/2019	NS	NS	NS	NS	NS	NS
	8/8/2020	NS	NS	NS	NS	NS	NS
	8/16/2021	NS	NS	NS	NS	NS	NS
	8/2/2022	Sheen Observed - Could Not Sample					
MW-59	8/17/2015	16.93	7.16	3.381	-112.3	1.30	220
	8/22/2016	16.75	7.83	3.241	70.3	2.34	2106
	8/22/2017	17.50	6.99	2.649	-74.5	1.32	1720
	8/3/2018	17.78	6.92	3.000	-59.7	1.10	1956
	8/22/2019	17.22	7.04	3.012	-101.6	1.91	2301
	8/12/2020	20.28	7.01	3.210	69.2	6.90	2302
	8/24/2021	19.04	6.29	3.190	133.0	2.19	2380
	8/2/2022	19.42	5.14	3.830	5.0	0.00	3100^
MW-60	8/17/2015	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	8/22/2017	18.06	7.15	4.074	169.5	3.41	2653
	8/7/2018	NS	NS	NS	NS	NS	NS
	8/19/2019	NS	NS	NS	NS	NS	NS
	8/12/2020	NS	NS	NS	NS	NS	NS
	8/23/2021	NS	NS	NS	NS	NS	NS
	8/2/2022	Insufficient Water to Collect Sample					
MW-61	8/17/2015	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS

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MW-61	8/24/2017	NS	NS	NS	NS	NS	NS
	8/2/2018	NS	NS	NS	NS	NS	NS
	8/19/2019	NS	NS	NS	NS	NS	NS
	8/11/2020	21.00	6.74	1.234	-156.2	13.89	865
	8/24/2021	20.12	6.65	3.110	-118.0	1.52	2550
	8/2/2022	Well Could Not Be Accessed					
MW-62	8/17/2015	16.37	7.05	7.273	48.1	2.03	473
	8/22/2016	16.70	8.00	7.905	120.3	2.18	5139
	8/23/2017	17.17	7.00	7.036	50.8	2.06	4569
	8/7/2018	17.94	7.13	7.891	79.9	2.81	5129
	8/22/2019	17.22	6.86	6.708	58.3	2.75	5057
	8/12/2020	25.56	6.90	6.192	235.0	1.67	4025
	8/23/2021	19.41	6.90	6.700	107.0	2.53	5920
	8/4/2022	20.06	6.85	6.220	50.0	0.00	6010^
MW-63	8/17/2015	18.13	6.84	4.931	57.8	0.80	320
	8/22/2017	18.67	25.88	3.530	112.1	1.20	2310
	8/8/2018	18.44	6.99	4.005	154.5	6.99	2605
	8/22/2019	19.00	6.90	4.595	103.0	2.87	3380
	8/11/2020	23.33	6.85	4.383	36.5	0.97	2944
	8/24/2021	20.09	6.59	4.370	45.0	1.41	4680
	8/2/2022	21.12	6.18	2.310	-90.0	0.21	NM
MW-64	8/17/2015	17.43	7.04	6.310	68.3	6.16	410
	8/22/2016	16.73	7.83	6.658	131.2	6.29	4329
	8/22/2017	18.76	6.95	3.946	154.6	5.29	3866
	8/8/2018	16.44	7.13	6.353	159.2	5.94	4128
	8/22/2019	17.11	7.11	5.248	95.3	5.32	4017
	8/12/2020	18.00	7.03	3.819	194.7	7.74	2866
	8/24/2021	19.47	6.14	4.410	153.0	7.05	3560
	8/2/2022	27.71	6.45	4.280	10.0	0.35	3540^
MW-65	8/17/2015	17.43	7.10	4.861	-182.3	1.83	316
	8/22/2016	17.40	7.75	5.228	-21.8	1.83	3398
	8/22/2017	18.83	7.05	4.861	-64.9	1.06	3172
	8/7/2018	20.00	7.03	3.172	-80.4	2.25	4898
	8/22/2019	20.22	7.29	1.983	-42.5	0.65	1384
	8/11/2020	20.39	7.35	2.372	-136.4	13.65	1735
	8/16/2021	Well destroyed					
MW-66	8/17/2015	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	8/24/2017	NS	NS	NS	NS	NS	NS
	8/2/2018	NS	NS	NS	NS	NS	NS
	8/19/2019	NS	NS	NS	NS	NS	NS
	8/11/2020	19.78	6.95	3.589	-342.8	0.44	2594
	8/16/2021	NS	NS	NS	NS	NS	NS
	8/2/2022	FPP - Could Not Sample					
MW-67	8/17/2015	15.27	7.24	1.320	73.0	2.71	860
	8/24/2016	15.44	7.52	1.078	5.4	5.87	714
	8/23/2017	17.29	7.17	1.359	143.8	1.60	1040
	8/3/2018	16.06	7.12	1.977	250.0	1.37	1287
	8/23/2019	16.11	6.72	1.089	93.5	2.07	852
	8/10/2020	17.06	7.18	1.550	266.0	1.36	1029

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MW-67	8/20/2021	17.21	6.45	2.500	195.0	2.14	909
	8/4/2022	25.52	6.05	1.910	-63.0	0.00	1200^
MW-68	8/17/2015	16.90	7.30	1.257	69.8	2.36	819
	8/24/2016	16.77	7.71	1.210	29.0	5.45	785
	8/23/2017	11.48	7.06	1.190	174.9	2.10	762
	8/3/2018	16.06	7.03	1.431	208.0	1.53	930
	8/23/2019	16.94	6.89	1.182	76.1	4.21	910
	8/10/2020	18.44	6.97	1.050	241.0	0.70	690
	8/19/2021	19.51	7.98	0.742	87.0	2.41	520
	8/3/2022	20.03	6.67	1.370	63.0	0.00	724^
MW-69	8/17/2015	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	8/24/2017	NS	NS	NS	NS	NS	NS
	8/1/2018	NS	NS	NS	NS	NS	NS
	8/19/2019	NS	NS	NS	NS	NS	NS
	8/8/2020	NS	NS	NS	NS	NS	NS
	8/16/2021	NS	NS	NS	NS	NS	NS
	8/2/2022	Well Dry - Could Not Sample					
MW-70	8/17/2015	15.93	6.89	6.258	-49.5	3.21	407
	8/17/2016	NS	NS	NS	NS	NS	NS
	8/23/2017	17.00	6.79	5.387	-69.6	1.88	3516
	8/7/2018	19.00	6.92	5.598	-24.6	2.61	3647
	8/22/2019	17.00	6.88	5.095	-69.7	1.91	3907
	8/12/2020	18.50	6.57	4.571	5.5	6.29	2970
	8/18/2021	26.40	6.41	4.380	-22.7	9.23	4340
	8/2/2022	25.03	6.03	4.990	-83.0	0.40	NS
MW-71	8/1/2022	FPP - Could Not Sample					
MW-72	8/1/2022	FPP - Could Not Sample					
MW-73	8/19/2021	18.25	5.63	1.750	-66.0	0.00	1470
	8/1/2022	19.47	6.80	2.020	-148.0	0.00	1500^
MW-74	8/19/2021	19.88	5.95	2.390	-71.0	0.27	1710
	8/1/2022	21.42	6.85	3.050	-186.0	0.00	NS
MW-75	8/18/2021	24.42	6.26	2.250	-78.0	2.09	1790
	8/1/2022	Sheen Observed - Could Not Sample					
MW-76	8/18/2021	20.19	6.10	1.500	-74.0	0.00	1100
	8/1/2022	18.76	6.54	1.760	-127.0	0.00	1070^
MW-77	8/3/2022	FPP - Could Not Sample					
MW-78	8/3/2022	20.98	6.14	3.030	85.0	0.00	2160^
North Boundary Barrier Wells							
CW 0+60	4/20/2015	14.77	7.54	0.733	-80.2	2.83	477
	8/25/2015	20.30	7.04	0.914	-94.9	1.34	592
	4/19/2016	12.77	7.17	0.571	-63.41	1.84	371
	8/17/2016	21.42	6.91	0.878	47.78	2.84	570
	4/27/2017	12.18	6.99	0.911	-56.2	3.47	593
	8/28/2017	19.46	6.83	0.886	-66.17	1.46	576
	4/18/2018	13.00	6.75	1.123	-50.3	1.57	728
	8/9/2018	19.61	6.76	1.451	-57.2	0.79	940
	4/3/2019	11.00	6.80	1.840	-60.01	1.25	1196
	8/26/2019	19.72	6.63	1.784	-80.3	1.33	1287
	8/6/2020	21.50	6.78	1.636	-78.7	1.73	1157

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CW 0+60	4/27/2021	Sample obtained but insufficient water to collect parameters					1200
	8/19/2021	21.14	6.28	1.710	-115	1.20	1480
	4/13/2022	11.40	6.39	1.94	-100	8.45	1230^
	8/4/2022	19.74	5.55	1.680	-63	0.00	1060^
CW 25+95	4/20/2015	15.17	7.54	1.547	-193.1	1.95	1008
	8/26/2015	np	np	np	np	np	np
	4/21/2016	16.80	7.87	1.721	-222.0	0.68	1177
	8/17/2016	20.22	7.25	1.511	44.3	1.35	982
	4/28/2017	12.19	7.43	1.759	-211.4	4.08	1125
	8/28/2017	20.89	7.20	1.989	-254.4	0.80	1294
	4/18/2018	13.39	7.61	1.679	-81.3	1.04	1092
	8/9/2018	19.50	7.40	2.815	-216.9	0.94	1833
	4/4/2019	12.50	7.24	1.992	-14.1	3.61	1294
	8/26/2019	19.22	7.14	1.519	-240.9	0.30	1111
	8/6/2020	19.28	7.39	1.481	-263.9	1.60	1079
	4/27/2021	Sample obtained but insufficient water to collect parameters					670
	8/19/2021	21.19	7.05	1.260	-139.0	2.39	970
	4/13/2022	12.14	7.21	2.760	-80.0	1.11	2010^
	8/3/2022	22.35	5.72	3.430	-62.0	0.00	2850^
OW 0+60	4/20/2015	NS	NS	NS	NS	NS	NS
	8/25/2015	20.43	6.96	1.014	-135.1	1.03	659
	4/19/2016	NS	NS	NS	NS	NS	NS
	8/17/2016	21.11	7.55	1.208	22.9	1.15	785
	4/27/2017	np	np	NS	np	np	np
	8/28/2017	NS	NS	NS	NS	NS	NS
	4/18/2018	NS	NS	NS	NS	NS	NS
	8/1/2018	NS	NS	NS	NS	NS	NS
	4/3/2019	NS	NS	NS	NS	NS	NS
	8/19/2019	NS	NS	NS	NS	NS	NS
	8/4/2020	NS	NS	NS	NS	NS	NS
	8/17/2021	NS	NS	NS	NS	NS	NS
	4/11/2022	Insufficient Water to Collect Sample					
	8/4/2022	20.61	5.85	1.69	7	0	1140^
OW 1+50	4/20/2015	NS	NS	NS	NS	NS	NS
	8/25/2015	NS	NS	NS	NS	NS	NS
	4/19/2016	13.95	6.63	0.758	-87.9	1.65	493
	8/17/2016	21.34	7.40	1.225	-96.7	1.70	797
	4/27/2017	np	np	NS	np	np	np
	8/28/2017	NS	NS	NS	NS	NS	NS
	4/18/2018	NS	NS	NS	NS	NS	NS
	8/1/2018	NS	NS	NS	NS	NS	NS
	4/3/2019	NS	NS	NS	NS	NS	NS
	8/19/2019	NS	NS	NS	NS	NS	NS
	8/4/2020	NS	NS	NS	NS	NS	NS
	8/17/2021	NS	NS	NS	NS	NS	NS
	4/11/2022	Insufficient Water to Collect Sample					
	8/4/2022	Insufficient Water to Collect Sample					
OW 3+85	4/20/2015	NS	NS	NS	NS	NS	NS
	8/25/2015	19.53	7.15	2.522	-263.9	0.86	1638
	4/19/2016	13.15	6.92	2.471	-74.55	1.84	1606

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OW 3+85	8/17/2016	19.83	7.09	2.776	-215.3	1.33	1804
	4/27/2017	13.05	7.41	2.355	-18.7	1.10	1532
	8/28/2017	NS	NS	NS	NS	NS	NS
	4/19/2018	13.83	7.20	2.800	-111.7	1.42	1846
	8/9/2018	NS	NS	NS	NS	NS	NS
	4/3/2019	NS	NS	NS	NS	NS	NS
	8/26/2019	NS	NS	NS	NS	NS	NS
	8/6/2020	NS	NS	NS	NS	NS	NS
	8/17/2021	NS	NS	NS	NS	NS	NS
	4/13/2022	Sheen Observed - Could Not Sample					
	8/4/2022	Sheen Observed - Could Not Sample					
OW 5+50	4/20/2015	NS	NS	NS	NS	NS	NS
	8/25/2015	NS	NS	NS	NS	NS	NS
	4/15/2016	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	4/27/2017	np	np	NS	np	np	np
	8/28/2017	NS	NS	NS	NS	NS	NS
	4/18/2018	NS	NS	NS	NS	NS	NS
	8/1/2018	NS	NS	NS	NS	NS	NS
	4/2/2019	NS	NS	NS	NS	NS	NS
	8/19/2019	NS	NS	NS	NS	NS	NS
	8/4/2020	NS	NS	NS	NS	NS	NS
	8/17/2021	NS	NS	NS	NS	NS	NS
	4/11/2022	Well Dry - Could Not Sample					
	8/4/2022	Well Dry - Could Not Sample					
OW 6+70	8/25/2015	NS	NS	NS	NS	NS	NS
	4/15/2016	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	4/17/2017	NS	NS	NS	NS	NS	NS
	8/28/2017	NS	NS	NS	NS	NS	NS
	4/18/2018	NS	NS	NS	NS	NS	NS
	8/1/2018	NS	NS	NS	NS	NS	NS
	4/2/2019	NS	NS	NS	NS	NS	NS
	8/19/2019	NS	NS	NS	NS	NS	NS
	8/4/2020	NS	NS	NS	NS	NS	NS
	8/17/2021	NS	NS	NS	NS	NS	NS
	4/11/2022	Insufficient Water to Collect Sample					
	8/4/2022	Well Dry - Could Not Sample					
OW 8+10	4/20/2015	NS	NS	NS	NS	NS	NS
	8/25/2015	NS	NS	NS	NS	NS	NS
	4/15/2016	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	4/27/2017	13.30	7.83	4.183	137.0	3.16	2719
	8/28/2017	20.02	6.89	3.663	129.0	1.99	2381
	4/19/2018	NS	NS	NS	NS	NS	NS
	8/9/2018	NS	NS	NS	NS	NS	NS
	4/4/2019	12.78	7.38	3.751	141.5	2.28	2457
	8/26/2019	19.94	6.93	3.817	122.9	2.26	2743
	8/4/2020	NS	NS	NS	NS	NS	NS
	8/17/2021	NS	NS	NS	NS	NS	NS

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OW 8+10	4/11/2022	Well Dry - Could Not Sample					
	8/4/2022	Well Dry - Could Not Sample					
OW 11+15	4/20/2015	14.73	7.16	2.672	-99.6	1.34	1738
	8/25/2015	19.10	6.98	2.452	-208.4	0.86	1593
	4/19/2016	14.26	7.68	1.284	52.2	3.49	834
	8/17/2016	20.13	6.65	2.171	152.9	0.78	1414
	4/27/2017	13.33	7.56	2.399	67.6	2.78	1558
	8/28/2017	NS	NS	NS	NS	NS	NS
	4/19/2018	15.44	7.09	2.233	-85.1	0.67	1443
	8/9/2018	NS	NS	NS	NS	NS	NS
	4/4/2019	NS	NS	NS	NS	NS	NS
	8/26/2019	NS	NS	NS	NS	NS	NS
	8/6/2020	NS	NS	NS	NS	NS	NS
	8/19/2021	NS	NS	NS	NS	NS	NS
	4/11/2022	Sheen Observed - Could Not Sample					
	8/4/2022	19.4	5.53	2.07	-83	0	NS
OW 14+10	4/20/2015	NS	NS	NS	NS	NS	NS
	8/25/2015	NS	NS	NS	NS	NS	NS
	4/15/2016	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	4/17/2017	NS	NS	NS	NS	NS	NS
	8/28/2017	NS	NS	NS	NS	NS	NS
	4/19/2018	NS	NS	NS	NS	NS	NS
	8/1/2018	NS	NS	NS	NS	NS	NS
	4/2/2019	NS	NS	NS	NS	NS	NS
	8/19/2019	NS	NS	NS	NS	NS	NS
	8/4/2020	NS	NS	NS	NS	NS	NS
	4/11/2022	Well Dry - Could Not Sample					
	8/4/2022	Well Dry - Could Not Sample					
OW 16+60	4/20/2015	16.10	7.24	4.057	-211.1	1.65	2635
	8/25/2015	20.47	7.16	3.936	-219.3	0.77	2557
	4/19/2016	15.34	7.52	2.973	-116.2	2.80	2334
	8/17/2016	20.73	7.77	3.749	-249.4	1.43	2438
	4/27/2017	14.13	7.32	3.481	-26.6	3.01	2262
	8/28/2017	NS	NS	NS	NS	NS	NS
	4/19/2018	16.56	7.29	4.102	-122.0	1.02	2665
	8/9/2018	NS	NS	NS	NS	NS	NS
	4/4/2019	NS	NS	NS	NS	NS	NS
	8/26/2019	NS	NS	NS	NS	NS	NS
	8/6/2020	20.00	6.99	4.327	-138.7	2.10	3101
	4/27/2021	Sample obtained but Insufficient water to collect parameters					3160
	8/19/2021	NS	NS	NS	NS	NS	NS
	4/13/2022	14.52	7.7	4.57	-76	9.82	NS
	8/4/2022	20.66	5.75	4.190	-119.0	0.00	4000^
OW 19+50	8/25/2015	NS	NS	NS	NS	NS	NS
	4/15/2016	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	4/27/2017	NS	np	NS	np	np	np
	8/28/2017	NS	NS	NS	NS	NS	NS
	4/18/2018	NS	NS	NS	NS	NS	NS

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OW 19+50	8/1/2018	NS	NS	NS	NS	NS	NS
	4/4/2019	13.22	7.55	2.580	165.9	2.57	1671
	8/26/2019	19.83	7.19	5.123	123.6	2.26	3692
	8/4/2020	NS	NS	NS	NS	NS	NS
	8/17/2021	NS	NS	NS	NS	NS	NS
	4/11/2022	Well Dry - Could Not Sample					
	8/4/2022	Well Dry - Could Not Sample					
OW 22+00	4/20/2015	14.23	7.56	3.102	24.8	4.57	2017
	8/25/2015	19.93	7.41	3.048	18.1	3.28	1983
	4/19/2016	14.10	8.01	2.205	15.0	6.71	1434
	8/17/2016	22.53	7.40	1.913	185.7	6.99	1242
	4/28/2017	12.43	6.28	3.264	123.8	7.90	1875
	8/28/2017	21.11	7.08	2.840	179.6	3.21	1846
	4/19/2018	14.11	7.15	3.451	114.5	2.43	2243
	8/9/2018	NS	NS	NS	NS	NS	NS
	4/4/2019	12.11	7.70	1.148	157.3	3.75	748
	8/26/2019	20.06	7.01	3.358	128.1	2.30	2411
	8/6/2020	20.06	7.18	2.885	4.8	2.76	2060
	4/27/2021	Sample obtained but insufficient water to collect parameters					1300
	8/19/2021	NS	NS	NS	NS	NS	NS
	4/13/2022	12.25	7.73	1.180	-7.0	6.53	825^
	8/3/2022	22.57	8.13	2.470	-151.0	9.83	2030^
OW 23+10	4/20/2015	14.87	7.50	1.985	-102.5	2.22	1289
	8/25/2015	20.43	7.36	1.676	-83.5	1.57	1090
	4/19/2016	NS	NS	NS	NS	NS	NS
	8/17/2016	21.20	8.28	1.589	-61.8	1.89	1036
	4/28/2017	13.36	7.18	1.860	70.7	7.34	1200
	8/28/2017	NS	NS	NS	NS	NS	NS
	4/19/2018	16.28	7.53	1.939	116.2	3.03	1255
	8/9/2018	21.17	7.32	2.111	207.8	1.20	1372
	4/4/2019	14.78	7.59	2.101	148.9	2.53	1365
	8/26/2019	NS	NS	NS	NS	NS	NS
	8/6/2020	22.44	7.64	1.603	-34.4	6.54	1059
	8/19/2021	NS	NS	NS	NS	NS	NS
	4/13/2022	Insufficient Water to Collect Sample					
	8/3/2022	24.17	8.02	1.67	-253	10.49	NS
OW 23+90	4/20/2015	15.20	7.74	1.263	-1.9	6.56	821
	8/25/2015	19.63	7.53	1.396	-10.3	3.50	908
	4/19/2016	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	4/28/2017	NS	np	NS	np	np	np
	8/28/2017	NS	NS	NS	NS	NS	NS
	4/18/2018	NS	NS	NS	NS	NS	NS
	8/9/2018	NS	NS	NS	NS	NS	NS
	4/4/2019	15.78	7.82	1.866	143.6	3.27	1209
	8/26/2019	21.00	7.06	1.868	151.8	2.02	1313
	8/6/2020	19.33	7.57	1.143	37.9	6.54	832
	8/19/2021	NS	NS	NS	NS	NS	NS
	4/11/2022	Well Dry - Could Not Sample					
	8/4/2022	Well Dry - Could Not Sample					

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TABLE 2
FIELD PARAMETERS SUMMARY
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Marathon Petroleum Corporation
San Juan County, New Mexico

Location ID	Date	Temperature (°C)	pH	Electrical Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Total Dissolved Solids (mg/L)
OW 25+70	4/20/2015	13.87	7.32	1.529	-110.0	2.08	995
	8/25/2015	20.73	7.33	1.600	-113.4	1.62	1040
	4/21/2016	14.20	8.24	1.947	-72.8	2.22	1265
	8/17/2016	20.89	8.08	1.431	-73.8	1.72	930
	4/28/2017	12.96	7.18	2.318	-20.4	6.99	1340
	8/28/2017	21.71	7.19	2.205	-45.0	1.76	1432
	4/19/2018	14.39	7.39	1.354	-51.7	2.00	877
	8/9/2018	21.06	7.12	2.487	26.0	1.98	1612
	4/4/2019	12.78	7.49	1.604	-9.0	2.30	1040
	8/26/2019	20.61	7.08	1.536	-72.7	1.84	1085
	8/6/2020	20.83	7.45	1.366	-87.1	2.05	962
	4/27/2021	Sample obtained but insufficient water to collect parameters					632
	8/19/2021	21.50	7.21	1.020	-107.0	2.81	755
	4/13/2022	13.20	7.08	1.850	-76.0	8.68	1370^
	8/3/2022	21.82	8.60	2.510	-9.0	0.00	2150^
San Juan River Bluff (Seep, Outfall, and River Sample Locations)							
Outfall No. 2	4/21/2015	11.00	7.98	1.064	4.4	9.80	693
	8/26/2015	NS	NS	NS	NS	NS	NS
	4/22/2016	NS	NS	NS	NS	NS	NS
	5/18/2016	12.9	6.25	0.306	94.9	6.78	1989
	8/17/2016	NS	NS	NS	NS	NS	NS
	4/21/2017	14.80	7.77	0.785	180.7	6.66	507
	8/30/2017	21.11	7.41	1.111	180.0	6.76	722
	4/20/2018	16.17	7.45	0.820	181.2	6.52	619
	8/10/2018	17.56	7.51	0.650	179.4	5.80	423
	4/4/2019	12.39	7.62	1.166	159.3	12.09	754
	8/15/2019	21.11	7.17	0.985	62.7	6.31	676
	8/3/2020	20.60	6.95	0.991	265.1	10.02	646
	4/27/2021	Sample obtained but insufficient water to collect parameters					620
	8/4/2022	NS	NS	NS	NS	NS	NS
**Outfall No. 3	4/21/2015	12.03	7.95	0.422	59.2	10.48	275
	8/26/2015	15.57	7.87	0.307	23.7	7.84	199
	4/22/2016	NS	NS	NS	NS	NS	NS
	5/18/2016	11.10	6.84	0.306	96.4	8.67	1989
	8/19/2016	16.20	8.79	0.297	38.0	9.33	193
	4/21/2017	13.50	7.90	0.820	144.7	5.77	533
	8/30/2017	16.61	7.17	0.467	170.7	5.94	284
	4/20/2018	13.28	7.25	0.437	190.9	5.29	277
	8/9/2018	20.11	7.38	0.380	226.1	4.21	247
	4/4/2019	11.72	7.70	1.151	170.6	13.48	748
	8/15/2019	20.00	7.32	0.915	42.5	6.40	656
	8/3/2020	21.00	6.84	0.771	272.1	7.07	500
	8/16/2021	NS	NS	NS	NS	NS	NS
	8/4/2022	NS	NS	NS	NS	NS	NS
**Seep 1	4/21/2015	12.00	6.54	5.072	49.7	4.99	3296
	8/26/2015	NS	NS	NS	NS	NS	NS
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/19/2016	NS	NS	NS	NS	NS	NS
	4/21/2017	14.00	7.63	3.245	238.1	5.43	2106
	8/30/2017	NS	NS	NS	NS	NS	NS

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TABLE 2
FIELD PARAMETERS SUMMARY
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Location ID	Date	Temperature (°C)	pH	Electrical Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Total Dissolved Solids (mg/L)
**Seep 1	2018	NS	NS	NS	NS	NS	NS
	2019	NS	NS	NS	NS	NS	NS
	2020	NS	NS	NS	NS	NS	NS
	2021	NS	NS	NS	NS	NS	NS
	2022	NS	NS	NS	NS	NS	NS
**Seep 2	4/21/2015	NS	NS	NS	NS	NS	NS
	8/26/2015	NS	NS	NS	NS	NS	NS
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/19/2016	NS	NS	NS	NS	NS	NS
	4/21/2017	NS	NS	NS	NS	NS	NS
	8/30/2017	NS	NS	NS	NS	NS	NS
	2018	NS	NS	NS	NS	NS	NS
	2019	NS	NS	NS	NS	NS	NS
	2020	NS	NS	NS	NS	NS	NS
	2021	NS	NS	NS	NS	NS	NS
	2022	NS	NS	NS	NS	NS	NS
**Seep 3	4/21/2015	NS	NS	NS	NS	NS	NS
	8/26/2015	NS	NS	NS	NS	NS	NS
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/19/2016	NS	NS	NS	NS	NS	NS
	4/21/2017	NS	NS	NS	NS	NS	NS
	8/30/2017	NS	NS	NS	NS	NS	NS
	2018	NS	NS	NS	NS	NS	NS
	2019	NS	NS	NS	NS	NS	NS
	2020	NS	NS	NS	NS	NS	NS
	2021	NS	NS	NS	NS	NS	NS
	2022	NS	NS	NS	NS	NS	NS
**Seep 4	3/18/2012	NS	NS	NS	NS	NS	NS
	8/7/2012	NS	NS	NS	NS	NS	NS
	4/24/2013	NS	NS	NS	NS	NS	NS
	8/6/2013	NS	NS	NS	NS	NS	NS
	4/12/2014	NS	NS	NS	NS	NS	NS
	8/26/2014	NS	NS	NS	NS	NS	NS
	4/21/2015	NS	NS	NS	NS	NS	NS
	8/26/2015	NS	NS	NS	NS	NS	NS
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/19/2016	Seep no longer exists					
**Seep 5	4/21/2015	NS	NS	NS	NS	NS	NS
	8/26/2015	NS	NS	NS	NS	NS	NS
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/19/2016	NS	NS	NS	NS	NS	NS
	4/21/2017	NS	NS	NS	NS	NS	NS
	8/30/2017	NS	NS	NS	NS	NS	NS
	2018	NS	NS	NS	NS	NS	NS
	2019	NS	NS	NS	NS	NS	NS
	2020	NS	NS	NS	NS	NS	NS
	2021	NS	NS	NS	NS	NS	NS
	2022	NS	NS	NS	NS	NS	NS
**Seep 6	3/18/2012	48.02	7.61	7.291	121.6	12.60	6851
	8/7/2012	NS	NS	NS	NS	NS	NS

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TABLE 2
FIELD PARAMETERS SUMMARY
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Location ID	Date	Temperature (°C)	pH	Electrical Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Total Dissolved Solids (mg/L)
**Seep 6	4/24/2013	42.00	7.07	9.510	219.0	129.16	6180
	8/6/2013	66.26	6.68	28.663	153.6	90.40	18631
	4/12/2014	44.84	7.24	8.810	105.2	13.46	5727
	8/26/2014	NS	NS	NS	NS	NS	NS
	4/21/2015	NS	NS	NS	NS	NS	NS
	8/26/2015	NS	NS	NS	NS	NS	NS
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/19/2016	Seep no longer exists					
**Seep 7	3/18/2012	NS	NS	NS	NS	NS	NS
	8/7/2012	NS	NS	NS	NS	NS	NS
	4/24/2013	NS	NS	NS	NS	NS	NS
	8/6/2013	NS	NS	NS	NS	NS	NS
	4/12/2014	NS	NS	NS	NS	NS	NS
	8/26/2014	NS	NS	NS	NS	NS	NS
	4/21/2015	NS	NS	NS	NS	NS	NS
	8/26/2015	NS	NS	NS	NS	NS	NS
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/19/2016	Seep no longer exists					
**Seep 8	3/18/2012	NS	NS	NS	NS	NS	NS
	8/7/2012	NS	NS	NS	NS	NS	NS
	4/24/2013	NS	NS	NS	NS	NS	NS
	8/6/2013	NS	NS	NS	NS	NS	NS
	4/12/2014	NS	NS	NS	NS	NS	NS
	8/26/2014	NS	NS	NS	NS	NS	NS
	4/21/2015	NS	NS	NS	NS	NS	NS
	8/26/2015	NS	NS	NS	NS	NS	NS
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/19/2016	Seep no longer exists					
**Seep 9	3/18/2012	8.60	7.64	3.004	139.4	7.62	2841
	8/7/2012	NS	NS	NS	NS	NS	NS
	4/24/2013	1.67	7.35	5.644	214.3	136.90	3670
	8/6/2013	NS	NS	NS	NS	NS	NS
	4/12/2014	6.17	7.73	5.271	43.9	12.90	3.4255
	8/26/2014	NS	NS	NS	NS	NS	NS
	4/21/2015	NS	NS	NS	NS	NS	NS
	8/26/2015	NS	NS	NS	NS	NS	NS
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/19/2016	Seep no longer exists					
**Upstream	4/22/2015	14.80	8.16	0.540	34.2	13.08	351
	8/26/2015	14.30	7.98	0.169	23.6	9.28	110
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/19/2016	17.80	8.94	0.290	22.6	8.90	189
	4/21/2017	12.90	8.69	0.382	182.9	9.21	248
	8/30/2017	18.94	8.26	0.192	170.0	12.16	125
	4/20/2018	15.50	8.39	0.360	181.1	9.70	235
	8/2/2018	20.28	7.60	0.454	173.7	8.85	294
	4/5/2019	12.50	8.24	0.427	110.7	7.69	278
	8/16/2019	12.33	8.01	0.241	67.5	10.18	207
	8/3/2020	19.90	7.60	0.289	308.0	0.71	190
	4/30/2021	11.79	6.56	0.240	112.0	11.24	NA

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FIELD PARAMETERS SUMMARY
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Location ID	Date	Temperature (°C)	pH	Electrical Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Total Dissolved Solids (mg/L)
**Upstream	8/25/2021	17.54	6.29	0.241	98.0	10.95	187
	4/14/2022	8.51	6.62	0.286	132.0	23.54	217^
	8/9/2022	30.47	7.67	0.540	6.0	10.21	440^
**North of MW-45	4/22/2015	15.60	8.03	0.498	33.4	12.93	324
	8/26/2015	NS	NS	NS	NS	NS	NS
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/19/2016	15.60	9.67	0.293	37.8	9.40	191
	4/21/2017	15.40	8.49	0.314	230.9	7.77	204
	8/30/2017	22.61	8.27	0.335	182.7	7.86	218
	4/20/2018	15.61	8.03	0.320	201.5	8.25	210
	8/2/2018	18.33	7.87	0.314	211.4	8.97	205
	4/5/2019	11.50	8.13	0.417	145.6	8.66	271
	8/16/2019	12.72	8.04	0.231	115.4	9.89	195
	8/3/2020	22.40	7.36	0.290	283.2	0.61	199.3
	4/27/2021	Sample obtained but insufficient water to collect parameters					175
	8/25/2021	15.88	5.94	0.330	139.0	11.71	202
	4/14/2022	9.43	7.08	0.283	118.0	17.01	220^
	8/3/2022	20.46	6.03	0.361	81.0	1.79	252^
**North of MW-46	4/22/2015	15.70	8.24	0.500	20.3	13.71	325
	8/26/2015	NS	NS	NS	NS	NS	NS
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/19/2016	16.10	9.02	0.296	45.1	8.75	192
	4/21/2017	15.90	8.66	0.490	269.6	8.74	319
	8/30/2017	20.61	8.20	0.330	191.7	7.74	215
	4/20/2018	16.83	8.45	0.340	207.5	7.95	219
	8/2/2018	19.78	7.29	0.309	213.2	8.77	202
	4/5/2019	13.11	8.30	0.239	134.0	7.48	155
	8/16/2019	13.67	7.73	0.236	99.5	10.80	195
	8/3/2020	23.40	7.60	0.287	271.0	8.80	187
	4/29/2021	9.66	5.53	0.329	154.0	7.71	194
	8/21/2021	19.21	8.29	0.236	70.0	7.18	188
	4/14/2022	8.30	6.46	0.314	151.0	20.01	226^
	8/4/2022	25.94	6.93	0.331	75.0	14.33	242^
**Downstream	4/22/2015	15.40	8.16	0.536	35.7	12.39	348
	8/26/2015	14.00	8.13	0.315	14.7	9.81	205
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/19/2016	17.70	8.90	0.290	20.5	8.76	189
	4/21/2017	16.40	8.85	0.437	263.4	8.34	284
	8/30/2017	20.61	8.13	0.325	173.6	6.31	211
	4/20/2018	16.17	7.92	0.319	181.1	7.98	200
	8/2/2018	18.67	7.38	0.302	244.9	8.22	196
	4/5/2019	13.11	8.06	0.494	169.1	7.78	321
	8/16/2019	15.56	7.52	0.250	65.1	10.69	194
	8/3/2020	21.60	5.90	0.292	261.0	27.78	190
	4/29/2021	9.34	6.16	0.380	119.0	7.66	294
	8/21/2021	20.31	8.61	0.278	45.0	6.94	192
	4/14/2022	9.06	6.10	0.501	200.0	23.86	271^
	8/4/2022	25.52	6.93	0.389	13.0	12.08	240^

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TABLE 2
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Location ID	Date	Temperature (°C)	pH	Electrical Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Total Dissolved Solids (mg/L)
Background Wells							
MW-3	4/22/2015	NS	NS	NS	NS	NS	NS
	8/26/2015	NS	NS	NS	NS	NS	NS
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	4/18/2017	NS	NS	NS	NS	NS	NS
	8/30/2017	NS	NS	NS	NS	NS	NS
	4/2/2018	NS	NS	NS	NS	NS	NS
	4/16/2018	NS	NS	NS	NS	NS	NS
	8/1/2018	NS	NS	NS	NS	NS	NS
	8/19/2019	NS	NS	NS	NS	NS	NS
	8/10/2020	17.44	7.10	4665	28.5	5.36	3536
	8/16/2021	NS	NS	NS	NS	NS	NS
	8/2/2022	Well Dry - Could Not Sample					
**MW-5	4/22/2015	NS	NS	NS	NS	NS	NS
	8/26/2015	NS	NS	NS	NS	NS	NS
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	4/18/2017	NS	NS	NS	NS	NS	NS
	8/30/2017	NS	NS	NS	NS	NS	NS
	4/16/2018	NS	NS	NS	NS	NS	NS
	8/2/2018	NS	NS	NS	NS	NS	NS
	4/2/2019	NS	NS	NS	NS	NS	NS
	8/19/2019	NS	NS	NS	NS	NS	NS
	8/8/2020	NS	NS	NS	NS	NS	NS
	8/16/2021	NS	NS	NS	NS	NS	NS
	8/2/2022	Well Dry - Could Not Sample					
**MW-6	4/22/2015	NS	NS	NS	NS	NS	NS
	8/26/2015	NS	NS	NS	NS	NS	NS
	4/22/2016	NS	NS	NS	NS	NS	NS
	8/17/2016	NS	NS	NS	NS	NS	NS
	4/18/2017	NS	NS	NS	NS	NS	NS
	8/30/2017	NS	NS	NS	NS	NS	NS
	4/16/2018	NS	NS	NS	NS	NS	NS
	8/2/2018	NS	NS	NS	NS	NS	NS
	4/2/2019	NS	NS	NS	NS	NS	NS
	8/19/2019	NS	NS	NS	NS	NS	NS
	8/8/2020	NS	NS	NS	NS	NS	NS
	8/16/2021	NS	NS	NS	NS	NS	NS
	4/11/2022	Well Dry - Could Not Sample					
	8/2/2022	Well Dry - Could Not Sample					
MW BCK1	4/22/2015	NS	NS	NS	NS	NS	NS
	8/17/2015	NS	NS	NS	NS	NS	NS
	2016	NS	NS	NS	NS	NS	NS
	2017	NS	NS	NS	NS	NS	NS
	2018	NS	NS	NS	NS	NS	NS
	2019	NS	NS	NS	NS	NS	NS
	2020	NS	NS	NS	NS	NS	NS
	2021	NS	NS	NS	NS	NS	NS

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TABLE 2
FIELD PARAMETERS SUMMARY
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Location ID	Date	Temperature (°C)	pH	Electrical Conductivity (mS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Total Dissolved Solids (mg/L)
MW BCK1	2022	Not on Plan					
MW BCK2	4/22/2015	NS	NS	NS	NS	NS	NS
	8/17/2015	NS	NS	NS	NS	NS	NS
	2016	NS	NS	NS	NS	NS	NS
	2017	NS	NS	NS	NS	NS	NS
	2018	NS	NS	NS	NS	NS	NS
	2019	NS	NS	NS	NS	NS	NS
	2020	NS	NS	NS	NS	NS	NS
	2021	NS	NS	NS	NS	NS	NS
	2022	Not on Plan					

Notes:

°C = Degrees Celsius

ID = Identification

mg/L = milligrams per liter

mS/cm = milliSiemens per centimeter

mV = millivolt

NS = not sampled

NP = no purge parameters, low water volume

* = Field result was confirmed with field notes

** = Discrete sample reading

^ = Result obtained through laboratory analysis

Not on Plan = Sample Not Required Per 2014 Facility-Wide Groundwater Monitoring Plan

FPP = Free Product Present

Released to Imaging: 11/21/2023 10:35:22 AM

Received by OCD: 5/15/2023 3:52:10 PM

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TABLE 3A
TERMINAL WELLS ANALYTICAL SUMMARY
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Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Acetone (µg/L)	Isopropylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)
Screening Source		NMAC 20.6.2					NMED Soil Screening Guidance Table A-1 (Tap Water)					EPA RSL Tap Water THQ = 0.1	
Screening Levels		5	1000	700	620	100	11.4	35.1	1.17	14100	447	5.6	6.0
RW-1	8/7/2020	**10**	<0.40	<0.43	<1.1	**6.5**	---	---	---	---	---	---	---
	8/18/2021	**240**	<5.0	**13**	**13**	**51**	**46**	**36**	**63**	<50	**5.8**	**20**	<5.0
	8/1/2022	Sheen Observed - Could Not Sample											
MW-4	8/1/2015	**210**	< 1.0	**17**	**11**	< 1.0	**21**	**37**	**78**	< 10	**49**	**4.1**	< 1.0
	8/23/2016	**37**	< 1.0	**7**	**11**	< 1.0	**22**	**35**	**71**	< 10	**40**	**1.7**	< 1.0
	8/23/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/10/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2020	**22**	<0.20	**1.6**	**13**	**3.0**	---	---	---	---	---	---	---
	8/16/2021	**14**	<1.0	**3.3**	**15**	<1.0	**18**	**33**	**60**	<10	**22**	**12**	**5.2**
	8/3/2022	**7.7**	<1.0	**2.1**	**28**	**2.5**	**16**	**24**	**55**	**10**	**26**	**73**	**17**
MW-8	8/7/2008	< 10	< 1.0	**7.7**	< 1.0	< 1.0	<4.0	<4.0	<2.0	< 10	<1.0	<1.0	<1.0
	8/7/2009	< 10	< 1.0	**7.7**	< 1.0	< 1.0	**13**	**22**	**19**	< 10	**12**	**95**	**62**
	8/7/2010	< 10	**210**	**47**	**480**	< 1.0	**16**	**27**	**18**	**19**	**3.5**	**56**	**18**
	4/1/2011	< 10	< 1.0	**15**	**37**	< 1.0	---	---	---	---	---	---	---
	8/16/2011	< 10	< 1.0	**1.9**	**2**	< 1.0	**25**	**37**	**20**	< 10	**2.4**	**30**	**13**
	4/1/2012	**1.3**	**3.0**	**16.0**	**56.0**	< 1.0	---	---	---	---	---	---	---
	8/9/2012	< 1.0	< 1.0	**3.9**	**9.3**	< 1.0	**23**	**19**	**8.7**	< 10	**1.4**	**21**	**5.2**
	4/1/2013	< 1.0	< 1.0	**2.3**	**8.6**	< 1.0	---	---	---	---	---	---	---
	8/12/2013	< 1.0	< 1.0	**1.2**	**3.6**	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0	**8.0**	**2.0**
	8/22/2016	< 1.0	< 1.0	<1.0	<1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0	**1.0**	< 1.0
	8/7/2020	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Not on Plan											
RW-9	8/7/2008	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2009	**9500**	<20	**890**	**2200**	**3400**	<80	<80	**110**	< 200	**67**	**710**	**110**
	8/7/2010	**3900**	<50	**370**	**550**	< 50	< 200	<200	<100	< 500	<20	**390**	**56**
	8/16/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/9/2012	**5400**	< 20	**670**	**1800**	**6400**	**130**	**190**	**250**	< 200	**46**	**1200**	**250**
	8/2/2022	Sheen Observed - Could Not Sample											
RW-15	8/7/2008	**6000**	**1000**	**4100**	**21000**	**30**	**92**	**150**	**620**	< 200	**150**	**2900**	**680**
	8/7/2009	**3000**	**2000**	**2500**	**11000**	< 50	< 200	<200	**380**	< 500	**64**	**1600**	**430**
	8/7/2010	**4300**	<100	**3600**	**16000**	<100	< 400	<100	**590**	< 1000	<100	**2200**	**670**
	8/16/2011	**2800**	**790**	**2500**	**9700**	**71**	**110**	**170**	**470**	< 200	**80**	**1700**	**510**
	8/9/2012	**1100**	< 20	**1000**	**2100**	**93**	< 80	**85**	**160**	< 200	**24**	**700**	**190**
	8/12/2013	**30**	**1.5**	**19**	**8.3**	**1.6**	< 4.0	< 4.0	**3.1**	< 10	< 1.0	**14**	**1.0**
	8/1/2014	**2100**	< 50	**3400**	**6600**	**150**	< 200	**210**	**640**	< 500	**93**	**2500**	**490**
	8/1/2015	**1200**	**740**	**610**	**1000**	**110**	< 80	**95**	**170**	< 200	**23**	**650**	**92**
	8/23/2016	**1800**	**18**	**2400**	**1300**	< 10	< 400	< 400	**500**	< 100	**100**	**2100**	**200**
	8/23/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/10/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/10/2020	**330**	**2.8**	**530**	**62**	**32**	---	---	---	---	---	---	---
	8/19/2021	**390**	**1.0**	**180**	**10**	**24**	**62**	**70**	**240**	<10	**62**	**500**	<1.0
	8/1/2022	FPP - Could Not Sample											
RW-18	8/7/2008	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2009	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2010	**230**	< 20	**48**	**93**	**1600**	**320**	< 80	**70**	< 200	<20	**240**	**25**
	8/16/2011	**42**	< 20	**90**	< 30	**2200**	**720**	< 80	< 40	< 200	**29**	**400**	< 20

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TABLE 3A
TERMINAL WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Acetone (µg/L)	Isopropylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)
Screening Source		NMAC 20.6.2					NMED Soil Screening Guidance Table A-1 (Tap Water)					EPA RSL Tap Water THQ = 0.1	
Screening Levels		5	1000	700	620	100	11.4	35.1	1.17	14100	447	5.6	6.0
RW-18	8/1/2022	Well Could Not Be Accessed											
MW-20	8/20/2020	---	---	---	---	---	---	---	---	---	---	---	---
	4/11/2022	Sheen Observed - Could Not Sample											
	8/1/2022	Sheen Observed - Could Not Sample											
MW-21	8/10/2020	<0.23	<0.20	<0.21	<0.55	**45**	---	---	---	---	---	---	---
	8/20/2021	<5.0	<10	<10	<15	**20**	<40	<40	<20	<100	<10	<10	<10
	8/1/2022	Sheen Observed - Could Not Sample											
RW-23	8/7/2009	**6200**	<50	**1500**	**2200**	**1200**	**290**	**350**	**570**	< 500	**75**	**1900**	**270**
	8/7/2010	**4500**	<50	**1100**	**2700**	**1300**	**460**	**460**	**790**	< 500	**86**	**2400**	**520**
	8/12/2020	**150**	<2.0	**180**	**31**	**120**	---	---	---	---	---	---	---
	8/2/2022	Sheen Observed - Could Not Sample											
RW-28	8/7/2008	**9800**	<100	**1600**	**9700**	**1500**	< 400	**500**	**870**	< 1000	**110**	**3600**	**790**
	8/1/2022	FPP - Could Not Sample											
MW-29	8/7/2008	< 1.0	< 1.0	< 1.0	< 1.5	**1.0**	< 4.0	< 4.0	< 2.0	< 10	< 1.0	< 1.0	< 1.0
	8/7/2009	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0	< 1.0	< 1.0
	8/7/2010	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	< 4.0	< 4.0	< 2.0	**14**	< 1.0	< 1.0	< 1.0
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.5	**1.2**	< 4.0	< 4.0	< 2.0	< 10	< 1.0	< 1.0	< 1.0
	8/9/2012	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 1.0	< 10	< 1.0	< 1.0	< 1.0
	8/12/2013	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0	< 1.0	< 1.0
	8/2/2014	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0	< 1.0	< 1.0
	8/1/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0	< 1.0	< 1.0
	8/24/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0	< 1.0	< 1.0
	8/24/2017	< 1.0	< 1.0	< 1.0	< 1.5	**0.56 J**	< 4.0	< 4.0	< 2.0	**2.2 J**	< 1.0	< 1.0	< 1.0
	8/8/2018	< 1.0	< 1.0	< 1.0	< 1.5	**0.67 J**	< 4.0	< 4.0	< 2.0	< 10	< 1.0	< 1.0	< 1.0
	8/23/2019	**0.36 J**	< 1.0	**0.18 J**	< 1.5	**0.51 J**	< 4.0	< 4.0	**0.30 J**	< 10	< 1.0	**0.38 J**	< 1.0
	8/10/2020	<0.23	<0.20	<0.21	<0.55	<0.39	---	---	---	---	---	---	---
	8/20/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0	<1.0	<1.0
	8/2/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	**6.0 J**	<1.0	<1.0	<1.0
	8/2/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	**8.0 J**	<1.0	<1.0	<1.0
MW-30	8/7/2008	**6700**	**6700**	**4500**	**18000**	< 100	< 400	< 400	**950**	< 1000	< 100	**4500**	**950**
	8/7/2009	**9500**	**8000**	**6300**	**24000**	< 32	< 400	**450**	**1400**	**1600**	**220**	**5900**	**1500**
	8/7/2010	**5800**	**3600**	**4100**	**14000**	< 100	< 400	< 400	**970**	< 1000	**120**	**4100**	**900**
	4/1/2011	**6700**	**5000**	**3700**	**14000**	< 100	---	---	---	---	---	---	---
	8/16/2011	**6300**	**5600**	**4400**	**15000**	< 100	< 400	< 400	**960**	< 1000	< 100	**3900**	**830**
	4/1/2012	**4700**	**1600**	**3700**	**9400**	<50	---	---	---	---	---	---	---
	8/9/2012	**5400**	**8800**	**4300**	**16000**	< 100	< 400	< 400	**760**	< 1000	**130**	**3600**	**840**
	4/1/2013	**5700**	**3500**	**5400**	**18000**	< 100	---	---	---	---	---	---	---
	8/12/2013	**4800**	**6300**	**3800**	**14000**	< 100	< 400	< 400	**610**	< 1000	**140**	**3600**	**760**
	4/1/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/2/2014	**4600**	**2200**	**3900**	**14000**	< 100	< 400	< 400	**860**	< 1000	**150**	**3400**	**840**
	4/1/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	**4200**	**13000**	**4000**	**16000**	< 100	< 400	< 400	**600**	< 1000	**110**	**3000**	**740**
	4/21/2016	**3000**	**1300**	**4700**	**13000**	< 100	---	---	---	---	---	---	---
	8/1/2016	**2700**	**1800**	**4400**	**14000**	< 100	< 400	< 400	**700**	< 1000	**190**	**4200**	**860**
	4/21/2017	**2900**	**1000**	**5700**	**17000**	< 100	---	---	---	---	---	---	---
	8/10/2020	**390**	**240**	**1400**	**1500**	**8.8**	---	---	---	---	---	---	---
	4/11/2022	Sheen Observed - Could Not Sample											
	8/2/2022	Sheen Observed - Could Not Sample											

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Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Acetone (µg/L)	Isopropylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)
Screening Source		NMAC 20.6.2					NMED Soil Screening Guidance Table A-1 (Tap Water)					EPA RSL Tap Water THQ = 0.1	
Screening Levels		5	1000	700	620	100	11.4	35.1	1.17	14100	447	5.6	6.0
MW-31	8/7/2008	---	---	---	---	---	---	---	---	---	---	---	---
	8/24/2009	3300	24	830	1600	<20	<80	84	160	< 200	88	1200	69
	8/7/2010	3800	<100	1600	3800	< 100	< 400	<400	260	<1000	160	2900	220
	8/16/2011	2900	460	1200	4200	< 50	< 200	270	320	< 500	100	1400	230
	8/9/2012	4200	2000	1400	5100	< 50	< 200	< 200	230	< 500	94	1800	270
	8/12/2013	2500	210	960	2800	< 50	< 200	< 200	170	< 500	82	1500	98
	8/2/2014	1600	130	770	1400	< 50	< 200	< 200	180	< 500	73	1200	100
	8/1/2015	3900	3500	1600	3800	< 20	< 80	96	210	< 200	100	1700	82
	8/22/2016	270	< 10	240	73	< 10	41	< 40	74	< 100	37	600	< 10
	8/24/2017	320	51	170	110	< 10	19 J	12	50	< 100	27	230	1.4 J
	8/8/2018	1500	760	820	1400	< 10	45	45	160	< 100	63	940	24
	8/23/2019	1500	390	710	1200	< 10	78	74	160	< 100	55	330	33
	8/12/2020	210	<0.40	36	4.4	<0.79	---	---	---	---	---	---	---
	8/24/2021	35	<1.0	5.3	<1.5	<1.0	<4.0	<4.0	2.7	<10	30	<1.0	<1.0
	8/2/2022	33	0.48	4.7	1.5 J	<1.0	6.6	3.3	5.5	11	12	0.31	<1.0
MW-40	8/7/2008	34	< 1.0	5.6	1.8	16	110	150	150	< 10	59	120	19
	8/7/2009	19	< 5.0	<5.0	<7.5	13	93	140	130	< 50	78	7.2	< 5.0
MW-40	8/16/2011	23	< 5.0	5.3	< 7.5	< 5.0	71	130	140	< 50	98	< 5.0	< 5.0
	8/12/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/8/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/23/2016	< 50	< 50	< 50	< 75	< 50	< 200	< 200	110	< 500	55	< 50	< 50
	8/24/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/2/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2020	<0.23	<0.20	0.58	<0.55	9.4	---	---	---	---	---	---	---
	8/18/2021	<1.0	<1.0	1.1	<1.5	8.8	52	87	160	<10	82	<1.0	<1.0
	8/1/2022	FPP - Could Not Sample											
RW-42	8/24/2016	6300	< 10	160	41	14	160	220	300	< 100	65	120	13
	8/24/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/11/2020	1100	2.3	9.2	<5.5	14	---	---	---	---	---	---	---
	8/1/2022	Pump running in well - Not able to sample											
RW-43	8/7/2008	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2009	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2010	8900	620	810	5100	3600	< 200	<51	150	< 500	150	1100	580
	8/16/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/8/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/24/2016	2600	51	320	1100	670	< 200	< 200	370	< 500	89	770	180
	8/1/2022	FPP - Could Not Sample											
MW-44	8/7/2008	< 1.0	< 1.0	< 1.0	< 1.5	1.8	< 4.0	< 4.0	< 2.0	< 10	< 1.0	< 1.0	< 1.0
	8/7/2009	< 1.0	< 1.0	< 1.0	< 1.5	1.5	< 4.0	< 4.0	< 2.0	< 10	< 1.0	< 1.0	< 1.0
	8/7/2010	< 1.0	< 1.0	< 1.0	< 1.5	1.1	< 4.0	< 4.0	< 2.0	16	< 1.0	< 1.0	< 1.0

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Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Acetone (µg/L)	Isopropylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)
Screening Source		NMAC 20.6.2					NMED Soil Screening Guidance Table A-1 (Tap Water)					EPA RSL Tap Water THQ = 0.1	
Screening Levels		5	1000	700	620	100	11.4	35.1	1.17	14100	447	5.6	6.0
MW-44	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.5	**1.3**	< 4.0	< 4.0	< 2.0	< 10	< 1.0	< 1.0	< 1.0
	8/9/2012	< 1.0	< 1.0	< 1.0	< 1.5	**2.0**	< 4.0	< 4.0	< 1.0	< 10	< 1.0	< 1.0	< 1.0
	8/12/2013	< 1.0	< 1.0	< 1.0	< 1.5	**1.2**	< 4.0	< 4.0	< 2.0	< 10	< 1.0	< 1.0	< 1.0
	8/2/2014	< 1.0	< 1.0	< 1.0	< 1.5	**1.0**	< 4.0	< 4.0	< 2.0	< 10	< 1.0	< 1.0	< 1.0
	8/1/2015	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	< 8.0	< 8.0	< 4.0	< 20	< 2.0	< 2.0	< 2.0
	8/23/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0	**1.1**	< 1.0
	8/24/2017	< 1.0	< 2.0	< 1.0	< 1.5	**0.98J**	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 1.0	< 1.0
	8/8/2018	< 1.0	< 2.0	< 1.0	< 1.5	**1.1**	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 1.0	< 1.0
	8/23/2019	< 1.0	< 2.0	< 1.0	< 1.5	**1.0**	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 1.0	< 1.0
	8/10/2020	<0.23	<0.20	<0.21	<0.55	<0.39	---	---	---	---	---	---	---
	8/19/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0	<1.0	<1.0
	8/1/2022	<1.0	<1.0	<1.0	<1.5	**0.81 J**	<4.0	**0.80 J**	<2.0	**7.2 J**	<1.0	<1.0	<1.0
MW-52	4/20/2015	<1.0	<1.0	<1.0	<1.5	<1.0	---	---	---	---	---	---	---
	8/19/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0	< 1.0	< 1.0
	4/20/2016	<1.0	<1.0	<1.0	<1.5	<1.0	---	---	---	---	---	---	---
	8/22/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0	< 1.0	< 1.0
	4/21/2017	<1.0	<1.0	<1.0	<1.5	<1.0	---	---	---	---	---	---	---
	8/24/2017	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	**2.5 J**	< 1.0	< 1.0	< 1.0
	8/23/2019	< 1.0	< 1.0	< 1.0	< 1.5	**0.57 J**	< 4.0	< 4.0	< 2.0	<0.010	< 1.0	< 1.0	< 1.0
	8/10/2020	<0.23	<0.20	<0.21	<0.55	<0.39	---	---	---	---	---	---	---
	4/28/2021	<1.0	<1.0	<1.0	<1.5	<1.0	---	---	---	---	---	---	---
	4/28/2021	<1.0	<1.0	<1.0	<1.5	<1.0	---	---	---	---	---	---	---
	8/18/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0	<1.0	<1.0
	4/12/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0	<1.0	<1.0
	8/2/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	**9.1 J**	<1.0	<1.0	<1.0

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

FPP = Free Product Present

Not on Plan = Sample Not Required Per 2014 Facility-Wide Groundwater Monitoring Plan

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TABLE 3B
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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)
Screening Source		EPA RSL Tap Water THQ = 0.1					NMED Soil Screening Guidance Table 6-4			Anions - NMAC 20.6.2			
Screening Levels		-	100	66	200	69	0.0167	0.0101	0.0858	1.6	250	1.0	-
RW-1	8/7/2020	---	---	---	---	---	5.6	1.1	<0.60	<0.22	270	<0.061*	3.0
	8/18/2021	<5.0	<15	5.9	<5.0	<5.0	2.2	1.9	---	---	---	---	---
	8/1/2022	Sheen Observed - Could Not Sample											
MW-4	8/1/2015	< 1.0	< 3.0	39	7.7	1.2	2.1	14	< 2.5	0.29	250	< 0.10	< 0.10
	8/23/2016	< 1.0	< 3.0	33	5.7	1.2	1.3	6.1	< 2.5	< 0.50	270	< 0.50	4.6
	8/23/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/10/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2020	---	---	---	---	---	1.9	1.5	<0.6	<0.22	320	<0.070	5.70
	8/16/2021	<1.0	<3.0	23	4.0	1.1	1.3	1.7	---	---	---	---	---
	8/3/2022	1.1	0.88	30	4.5	1.1	2.2	1.0	<0.080	<0.50	280	<0.50	5.1
MW-8	8/7/2008	< 1.0	<1.0	<1.0	< 1.0	< 1.0	0.55	0.14	<2.5	0.69	180	0.12	1.60
	8/7/2009	4.7	<1.0	13	3.2	< 1.0	<1.0	3.3	<5.0	0.33	20	<0.10	0.23
	8/7/2010	1.3	<1.0	6.8	1.4	< 1.0	0.34	0.34	<2.5	1.4	96	<2.0	0.64
	4/1/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/16/2011	< 1.0	2.3	3.7	< 1.0	< 1.0	0.48	0.35	<2.5	0.72	190	8.60	1.10
	4/1/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/9/2012	< 1.0	1.1	3.6	< 1.0	< 1.0	0.27	0.16	<2.5	0.79	240	<0.10	1.0
	4/1/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	< 1.0	< 3.0	1.2	< 1.0	< 1.0	<0.20	0.083	<2.5	0.67	120	0.88	0.86
	8/22/2016	< 1.0	< 3.0	<1.0	< 1.0	< 1.0	<0.2	<0.05	<2.5	0.61	160	13.0	0.78
	8/7/2020	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Not on Plan											
RW-9	8/7/2008	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2009	< 20	<20	88	< 20	< 20	14	47	<5.0	<1.0	160	<1.0	4.50
	8/7/2010	< 50	< 50	<50	< 50	< 50	8.8	21	<2.5	<1.0	230	<1.0	4.90
	8/16/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/9/2012	< 20	< 20	99	< 20	< 20	14.0	23	< 2.5	< 1.0	460	< 2.0	5.6
	8/1/2022	Sheen Observed - Could Not Sample											
RW-15	8/7/2008	< 20	73	390	17	< 20	48	70	<50	0.29	420	<2.0	7.80
	8/7/2009	< 50	< 50	230	< 50	< 50	9.4	90	<5.0	<0.10	460	<0.10	1.60
	8/7/2010	< 100	<100	370	< 100	< 100	5.7	69	<2.5	0.25	470	<2.0	7.80
	8/16/2011	< 20	25	270	< 20	< 20	1.8	47	<2.5	<0.5	380	<0.50	7.70
	8/9/2012	< 20	< 20	97	< 20	< 20	2.1	10	< 2.5	< 0.50	440	< 0.50	7.4
	8/12/2013	< 1.0	< 3.0	1.7	< 1.0	< 1.0	3.5	2.0	< 2.5	< 0.50	360	< 0.50	6.8
	8/1/2014	< 50	< 150	320	< 50	< 50	4.7	39	< 2.5	< 0.50	410	< 0.50	6.1
	8/1/2015	< 20	< 60	59	< 20	< 20	20	16	12	< 0.50	480	< 0.50	6.3
	8/23/2016	< 100	< 300	350	< 100	< 100	100	29	44	< 0.50	330	< 0.50	8.5
	8/23/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/10/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/10/2020	---	---	---	---	---	2.3	3.6	<0.6	<0.22	430	<0.070	5.2
	8/19/2021	<1.0	14	230	12	<1.0	2.0	3.3	---	---	---	---	---
	8/1/2022	FPP - Could Not Sample											
RW-18	8/7/2008	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2009	---	---	---	---	---	---	---	---	---	---	---	---

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TABLE 3B
TERMINAL WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)
Screening Source		EPA RSL Tap Water THQ = 0.1					NMED Soil Screening Guidance Table 6-4			Anions - NMAC 20.6.2			
Screening Levels		-	100	66	200	69	0.0167	0.0101	0.0858	1.6	250	1.0	-
RW-18	8/7/2010	< 20	<20	22	< 20	< 20	910	11	<250	<2.0	380	<2.0	4.30
	8/16/2011	< 20	36	52	< 20	< 20	470	18	<2.5	<2.0	310	<2.0	3.20
	8/1/2022	Well Could Not Be Accessed											
MW-20	8/20/2020	---	---	---	---	---	---	---	---	---	---	---	---
	4/11/2022	Sheen Observed - Could Not Sample											
	8/1/2022	Sheen Observed - Could Not Sample											
MW-21	8/10/2020	---	---	---	---	---	2.1	0.13	<0.60	<0.22	410	<0.070	4.4
	8/20/2021	<10	<30	<10	<10	<10	<1.0	<0.50	---	---	---	---	---
	8/1/2022	Sheen Observed - Could Not Sample											
RW-23	8/7/2009	< 50	81	140	< 50	< 50	36	36	<5.0	<1.0	100	<1.0	5.10
	8/7/2010	< 50	96	210	< 50	< 50	240	25	<50	<1.0	87	<1.0	1.10
	8/12/2020	---	---	---	---	---	1.6	1.5	<0.60	<0.22	260	<0.070	4.3
	8/2/2022	Sheen Observed - Could Not Sample											
RW-28	8/7/2008	< 100	130	210	< 100	< 100	48	70	<2.5	0.4	76	<0.10	<1.0
	8/1/2022	FPP - Could Not Sample											
MW-29	8/7/2008	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5	0.36	57	<0.10	0.40
	8/7/2009	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5	0.4	52	<0.10	0.45
	8/7/2010	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5	0.33	69	<0.10	0.43
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5	<0.5	79	2.50	<0.5
	8/9/2012	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5	0.32	44	< 0.10	0.28
	8/12/2013	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5	0.26	110	< 0.10	0.64
	8/2/2014	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5	0.27	48	0.34	< 0.10
	8/1/2015	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5	0.26	33	< 0.10	0.34
	8/24/2016	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	0.28	< 0.050	< 2.5	0.32	45	< 0.10	0.38
	8/24/2017	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5	0.22	110	< 0.10	0.98
	8/8/2018	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.40	0.024 J	< 2.5	<0.50	110	7.1	0.87
	8/23/2019	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.40	<0.050	< 2.5	0.14	40	0.92	0.28
	8/10/2020	---	---	---	---	---	<0.067	0.014	<0.60	0.29	65	<0.070	0.65
	8/20/2021	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.50	---	---	---	---	---
	8/2/2022	<1.0	<3.0	<1.0	<1.0	<1.0	0.069	<0.050	<0.080	0.10	320	<0.10	2.2
	8/2/2022	<1.0	<3.0	<1.0	<1.0	<1.0	0.10	<0.050	<0.080	0.10	320	<0.10	2.2
MW-30	8/7/2008	< 100	< 100	610	< 100	< 100	6.2	65	<2.5	0.15	210	<0.10	5.60
	8/7/2009	< 100	< 100	890	< 100	< 100	24	84	<5.0	<1.0	230	---	4.60
	8/7/2010	< 100	< 100	600	< 100	< 100	7.0	63	<2.5	0.12	290	<2.0	4.90
	4/1/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/16/2011	< 100	< 100	610	< 100	< 100	4.5	90	<2.5	<2.0	290	9.50	0.25
	4/1/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/9/2012	< 100	< 100	550	< 100	< 100	4.4	77	< 2.5	< 0.5	230	< 0.5	3.9
	4/1/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	< 100	< 300	500	< 100	< 100	9.9	83	< 2.5	< 0.50	230	< 0.50	3.9
	4/1/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/2/2014	< 100	< 300	610	< 100	< 100	9.4	73	< 2.5	< 0.50	270	< 0.50	4.7
	4/1/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	< 100	< 300	470	< 100	< 100	7.7	120	< 2.5	< 0.10	230	< 2.0	< 0.10
	4/21/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2016	< 100	< 300	710	< 100	< 100	71	100	< 25	< 0.50	230	< 0.50	3.8

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Sample Location	Sample Date	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)
Screening Source		EPA RSL Tap Water THQ = 0.1					NMED Soil Screening Guidance Table 6-4			Anions - NMAC 20.6.2			
Screening Levels		-	100	66	200	69	0.0167	0.0101	0.0858	1.6	250	1.0	-
MW-30	4/21/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/10/2020	---	---	---	---	---	4.3	12	<0.60	<0.22	280	<0.070	4.6
	4/11/2022	Sheen Observed - Could Not Sample											
	8/2/2022	Sheen Observed - Could Not Sample											
MW-31	8/7/2008	---	---	---	---	---	5.1	19	<5.0	0.15	740	<1.0	17.00
	8/24/2009	< 20	<20	230	30	< 20	5.1	19	<0.50	0.21	720	<2.0	15.00
	8/7/2010	< 100	< 100	570	< 100	< 100	1.8	30	<2.5	0.16	660	<2.0	12.00
	8/16/2011	< 50	< 50	260	< 50	< 50	1.1	25	<2.5	0.13	540	<1.0	3.00
	8/9/2012	< 50	< 50	300	< 50	< 50	1.8	26	< 2.5	0.51	380	< 2.0	2.1
	8/12/2013	< 50	< 150	190	< 50	< 50	3.8	20	< 2.5	0.48	360	< 0.10	0.22
	8/2/2014	< 50	< 150	220	< 50	< 50	4.0	15	< 2.5	0.14	300	< 0.10	5.5
	8/1/2015	< 20	< 60	290	42	< 20	4.2	45	< 2.5	< 0.10	200	< 0.10	< 0.10
	8/22/2016	< 10	< 30	130	24	< 10	1.1	3.5	< 2.5	< 0.10	220	< 1.0	< 0.10
	8/24/2017	< 10	4.2 J	68	11	< 10	0.71	3.1	< 2.5	< 0.10	170	< 1.0	1.7
	8/8/2018	3.1 J	16 J	210	26	< 10	0.64	18	< 2.5	< 0.10	170	< 1.0	1.7
	8/23/2019	2.6	<3.0	190	35	2.4	1.1	11	< 2.5	<0.50	130	0.13 J	2.9
	8/12/2020	---	---	---	---	---	0.42	1.2	<0.60	<0.22	120	<0.070	2.7
	8/24/2021	<1.0	<3.0	94	12	1.1	<1.0	0.91	---	---	---	---	---
	8/2/2022	<1.0	1.3 J	34	6.2	0.61 J	1.5	0.36	0.94	0.27 J	160	<0.50	3.2
MW-40	8/7/2008	3.9	6.2	66	11	1.9	41	5.1	<5.0	0.33	310	<2.0	4.40
	8/7/2009	< 5.0	< 5.0	84	11	< 5.0	17	5.4	<5.0	0.28	310	<2.0	4.00
	8/16/2011	< 5.0	< 5.0	99	10	< 5.0	9.7	8	<2.5	<0.50	320	16.00	4.40
	8/12/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/8/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/23/2016	< 50	< 150	63	< 50	< 50	110	4.9	< 25	< 0.50	290	< 0.50	5
	8/24/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/2/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2020	---	---	---	---	---	4.2	0.74	<0.60	<0.22	240	<0.061*	4.40
	8/18/2021	<1.0	<3.0	90	9.3	1.8	2.1	1.4	---	---	---	---	---
	8/1/2022	FPP - Could Not Sample											
RW-42	8/24/2016	< 10	< 30	110	17	< 10	85	24	< 25	0.62	260	< 0.50	4.6
	8/24/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/11/2020	---	---	---	---	---	3.4	5.0	<0.60	0.38	160	<0.061*	3.7
	8/1/2022	Pump running in well - Not able to sample											
RW-43	8/7/2008	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2009	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2010	55	< 50	160	< 50	< 50	89	48	<25	<1.0	280	<1.0	3.70
	8/16/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/8/2014	---	---	---	---	---	---	---	---	---	---	---	---

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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)
Screening Source		**EPA RSL Tap Water THQ = 0.1**					**NMED Soil Screening Guidance Table 6-4**			**Anions - NMAC 20.6.2**			
Screening Levels		**-**	**100**	**66**	**200**	**69**	**0.0167**	**0.0101**	**0.0858**	**1.6**	**250**	**1.0**	**-**
RW-43	8/1/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/24/2016	< 50	< 150	**84**	< 50	< 50	**1200**	**27**	< 250	< 0.50	**390**	< 0.50	**3.9**
	8/1/2022	FPP - Could Not Sample											
MW-44	8/7/2008	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<.05	<5.0	**0.62**	**72**	<0.10	**0.28**
	8/7/2009	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<0.05	<5.0	**0.19**	**69**	*<1.0	**0.27**
	8/7/2010	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.22**	<0.05	<2.5	**0.13**	**65**	<0.10	**0.23**
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5	**0.25**	**59**	*<1.0	**0.20**
	8/9/2012	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	**0.46**	< 0.05	< 2.5	**0.16**	**68**	<1.0	**0.22**
	8/12/2013	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	**0.26**	< 0.050	< 2.5	**0.35**	**59**	< 0.10	**0.22**
	8/2/2014	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5	**0.26**	**48**	< 0.10	**0.20**
	8/1/2015	< 2.0	< 6.0	< 2.0	< 2.0	< 2.0	< 0.20	< 0.050	< 2.5	< 0.10	**55**	< 0.10	**0.47**
	8/23/2016	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	**0.057**	< 2.5	**0.6**	**56**	< 0.10	**0.18**
	8/24/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5	< 0.10	**46**	< 1.0	**0.14**
	8/8/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.40	**0.026 J**	< 2.5	< 0.50	**48**	**0.079 J**	**0.16**
	8/23/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.40	< 0.050	< 2.5	< 0.50	**50**	**0.11**	<0.50
	8/10/2020	---	---	---	---	---	<0.067	**0.022**	<0.60	<0.22	**50**	<0.070	<0.25
	8/19/2021	<1.0	<3.0	<3.0	<1.0	<1.0	<1.0	<0.050	---	---	**---**	---	---
	8/1/2022	<1.0	<3.0	<3.0	<1.0	<1.0	**0.072**	<0.050	<0.080	<0.50	**55**	---	<0.50
MW-52	4/20/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/19/2015	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5	**0.44**	**560**	< 2.0	**2.2**
	4/20/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/22/2016	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5	< 0.50	**640**	**42**	**4.1**
	4/21/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/24/2017	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5	**0.83**	**750**	< 2.0	**4.8**
	8/23/2019	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.40	< 0.050	< 2.5	<0.50	**830**	**39**	**2.3**
	8/10/2020	---	---	---	---	---	<0.067	**0.012**	<0.60	**0.22**	**560**	<0.70	**1.70**
	4/28/2021	---	---	---	---	---	---	**---**	**---**	**---**	**---**	---	**---**
	4/28/2021	---	---	---	---	---	---	**---**	**---**	**---**	**---**	---	**---**
	8/18/2021	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.050	---	---	---	---	---
	4/13/2022	<1.0	<3.0	<1.0	<1.0	<1.0	---	---	---	---	---	---	---
	8/2/2022	<1.0	<3.0	<1.0	<1.0	<1.0	**0.098**	<0.050	**0.062**	**0.19**	**560**	<2.0	**3.2**

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TABLE 3B
TERMINAL WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)
Screening Source		**EPA RSL Tap Water THQ = 0.1**					**NMED Soil Screening Guidance Table 6-4**			**Anions - NMAC 20.6.2**			
Screening Levels		**-**	**100**	**66**	**200**	**69**	**0.0167**	**0.0101**	**0.0858**	**1.6**	**250**	**1.0**	**-**

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

FPP = Free Product Present

Not on Plan = Sample Not Required Per 2014 Facility-Wide Groundwater Monitoring Plan

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TABLE 3C
TERMINAL WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)
Screening Source		**Anions - NMAC 20.6.2**						**Total Metals - NMAC 20.6.2**					
Screening Levels		**10**	**-**	**600**	**-**	**-**	**-**	**0.01**	**2.0**	**0.005**	**0.05**	**0.015**	**0.05**
RW-1	8/7/2020	<0.061	<1.2	**250**	**950**	**1069**	**1069**	**0.0034**	**0.32**	<0.0009	**0.063**	**0.0043**	**0.00094**
	8/18/2021	---	---	**---**	**---**	**---**	**---**	<0.0010	**1.8**	<0.0020	**0.0062**	**0.0021**	<0.0010
	8/1/2022	Sheen Observed - Could Not Sample											
MW-4	8/1/2015	**0.74**	< 0.50	**1**	**1100**	**1148**	**1148**	< 0.020	**2.0**	< 0.0020	< 0.0060	**0.005**	< 0.050
	8/23/2016	< 0.50	< 2.5	< 2.5	**1200**	**1176**	**1176**	< 0.020	**2.5**	< 0.0020	**0.071**	**0.012**	< 0.050
	8/23/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/10/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2020	**0.20**	<1.2	<1.2	**1100**	**1224**	**1224**	**0.0059**	**2.6**	<0.00090	<0.0014	**0.0005**	<0.0025
	8/16/2021	---	---	---	---	---	---	**0.022**	**2.2**	<0.00050	**0.041**	**0.0054**	<0.0010
	8/3/2022	<0.50	<2.5	**3.3**	**1200**	**1314**	**1314**	**0.0054**	**2.3**	<0.0020	<0.0060	**0.00068**	**0.00060**
MW-8	8/7/2008	**24.00**	<0.50	**790**	**220**	**230**	**230**	<0.02	<0.020	<0.002	**0.0071**	<0.005	<0.05
	8/7/2009	**0.50**	<0.50	**410**	**100**	**110**	**110**	<0.02	**0.034**	<0.002	**0.021**	<0.005	<0.05
	8/7/2010	**0.21**	<0.50	**1300**	<5.0	<5.0	<5.0	<0.02	**0.1**	<0.002	**3.7**	<0.005	<0.05
	4/1/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/16/2011	--	<0.50	**1000**	**62**	<20	<20	**0.18**	**0.13**	**0.009**	**0.98**	**0.0086**	<0.05
	4/1/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/9/2012	**16**	< 10	**1800**	< 1.0	< 20	< 20	< 0.04	**0.035**	< 0.004	**4.8**	< 0.01	< 0.1
	4/1/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	**13**	< 2.5	**990**	**61**	**31**	**31**	< 0.020	**0.021**	< 0.0020	**0.46**	< 0.0010	**0.084**
	8/22/2016	**13.0**	<0.5	**700**	**190**	**198**	**198**	**0.02**	**0.063**	< 0.0020	**2**	<0.005	< 0.050
	8/7/2020	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Not on Plan											
RW-9	8/7/2008	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2009	<1.0	<5.0	**280**	**920**	**1000**	**1000**	<0.02	**0.23**	<0.002	<0.006	<0.005	<0.25
	8/7/2010	<1.0	<5.0	**6.30**	**1300**	**1300**	**1300**	<0.02	**3.3**	<0.002	0.007	**0.012**	<0.05
	8/16/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/9/2012	< 2.0	< 5.0	**21**	**1200**	**1200**	**1200**	<0.02	**4.5**	<0.002	**0.0097**	**0.041**	<0.05
	8/1/2022	Sheen Observed - Could Not Sample											
RW-15	8/7/2008	<0.10	<0.50	**0.76**	**1200**	**1200**	**1200**	<0.02	**1.2**	<0.002	<0.006	<0.005	<0.05
	8/7/2009	<0.10	<0.50	**1.30**	**980**	**1100**	**1100**	<0.02	**1.7**	<0.002	<0.006	<0.005	<0.05
	8/7/2010	**0.33**	<0.50	<0.50	**1200**	**1200**	**1200**	<0.02	**1.6**	<0.002	<0.006	<0.005	<0.05
	8/16/2011	<0.50	<2.5	**2.90**	**1100**	**1200**	**1200**	<0.02	**1.8**	<0.002	<0.006	<0.005	<0.05
	8/9/2012	< 0.50	< 2.5	< 2.5	**1000**	**1100**	**1100**	<0.02	**1.2**	<0.002	<0.006	<0.005	<0.05
	8/12/2013	< 0.50	< 2.5	< 2.5	**1100**	**1200**	**1200**	< 0.020	**0.98**	< 0.0020	< 0.0060	< 0.0010	< 0.050
	8/1/2014	< 0.50	< 2.5	**2.8**	**1100**	**1200**	**1200**	< 0.020	**1.6**	< 0.0020	< 0.0060	< 0.0050	< 0.050
	8/1/2015	< 0.50	< 2.5	< 2.5	**1200**	**1221**	**1221**	< 0.020	**1.5**	< 0.0020	< 0.0060	< 0.0050	< 0.050
	8/23/2016	< 0.50	< 2.5	**19**	**1200**	**1248**	**1248**	< 0.020	**1.4**	< 0.0020	< 0.0060	**0.0085**	< 0.050

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TABLE 3C
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Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)
Screening Source		**Anions - NMAC 20.6.2**						**Total Metals - NMAC 20.6.2**					
Screening Levels		**10**	**-**	**600**	**-**	**-**	**-**	**0.01**	**2.0**	**0.005**	**0.05**	**0.015**	**0.05**
RW-15	8/23/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/10/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/10/2020	<0.1	<1.2	**18**	**1100**	**1187**	**1187**	**0.0014**	**0.82**	<0.0009	<0.0014	**0.00051**	<0.0025
	8/19/2021	---	---	**---**	**---**	**---**	**---**	<0.010	**0.91**	<0.0020	<0.0060	<0.0050	<0.010
	8/1/2022	FPP - Could Not Sample											
RW-18	8/7/2008	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2009	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2010	<2.0	<10	**1700**	**950**	**950**	**950**	<0.02	**1.3**	**0.0025**	**0.075**	<0.025	<0.25
	8/16/2011	<2.0	<10	**3300**	**480**	**520**	**520**	**0.1**	**4.2**	**0.013**	**0.17**	**0.055**	<0.10
	8/1/2022	Well Could Not Be Accessed											
MW-20	8/20/2020	---	---	---	---	---	---	---	---	---	---	---	---
	4/11/2022	Sheen Observed - Could Not Sample											
	8/1/2022	Sheen Observed - Could Not Sample											
MW-21	8/10/2020	**0.13**	<1.2	**94**	**890**	**1028**	**984.3**	**0.0016**	**0.49**	<0.0009	<0.0014	<0.00050	<0.0025
	8/20/2021	**---**	---	**---**	**---**	**---**	**---**	<0.0010	**0.58**	<0.0020	<0.0060	<0.00050	<0.0010
	8/1/2022	Sheen Observed - Could Not Sample											
RW-23	8/7/2009	<1.0	<5.0	**11**	**860**	**890**	**890**	<0.02	**1.7**	<0.002	<0.006	**0.0096**	<0.25
	8/7/2010	<1.0	<5.0	<5.0	**900**	**900**	**900**	<0.02	**2.5**	<0.002	<0.006	**0.067**	<0.05
	8/12/2020	<0.10	<1.2	**360**	**760**	**817.3**	**817.3**	**0.0069**	**0.38**	<0.0009	<0.0014	**0.0042**	<0.0025
	8/2/2022	Sheen Observed - Could Not Sample											
RW-28	8/7/2008	<0.10	<0.50	**3.20**	**850**	**780**	**780**	<0.02	**1.4**	<0.002	<0.006	**0.013**	<0.25
	8/1/2022	FPP - Could Not Sample											
MW-29	8/7/2008	**0.99**	<0.50	**160**	**200**	**210**	**210**	<0.02	**0.072**	<0.002	<0.006	<0.005	<0.25
	8/7/2009	**0.93**	<0.50	**160**	**190**	**210**	**210**	<0.02	**0.028**	<0.002	<0.006	<0.005	<0.05
	8/7/2010	**1.90**	<0.50	**210**	**240**	**240**	**240**	<0.02	**0.054**	<0.002	<0.006	<0.005	<0.05
	8/16/2011	---	<0.50	**210**	**230**	**260**	**260**	<0.02	**0.034**	<0.002	<0.006	<0.005	<0.05
	8/9/2012	**0.59**	< 0.50	**160**	**230**	**250**	**250**	< 0.020	**0.070**	< 0.0020	<0.006	<0.005	<0.05
	8/12/2013	**7.2**	< 0.50	**290**	**240**	**260**	**260**	< 0.020	**0.14**	< 0.0020	< 0.0060	**0.0037**	< 0.050
	8/2/2014	**0.48**	< 0.50	**210**	**260**	**280**	**280**	< 0.020	**0.026**	< 0.0020	< 0.0060	< 0.0050	< 0.050
	8/1/2015	**0.5**	< 0.50	**160**	**230**	**250.8**	**250.8**	< 0.020	**0.041**	< 0.0020	< 0.0060	< 0.0050	< 0.050
	8/24/2016	**1.2**	< 0.50	**180**	**260**	**284.2**	**284.2**	< 0.020	**0.24**	< 0.0020	**0.0088**	< 0.0050	< 0.050
	8/24/2017	**5.0**	< 0.50	**350**	**300**	**318.6**	**318.6**	< 0.050	**0.049**	< 0.0020	< 0.0060	< 0.0050	< 0.050
	8/8/2018	**7.1**	**1.4 JH**	**320**	**280**	**309.2**	**309.2**	**0.0022**	**0.038**	< 0.0020	< 0.0060	**0.00031 J**	**0.0017**
	8/23/2019	**7.1**	<2.5 H	**210**	**250**	**266.8**	**266.8**	<0.020	**0.066**	< 0.0020	< 0.0060	**0.0072**	<0.050
	8/10/2020	**7.2**	<1.2	**340**	**240**	**265.3**	**265.3**	**0.00099**	**0.015**	<0.0009	<0.0014	<0.0005	**0.007**
	8/20/2021	**---**	---	**---**	**---**	**---**	**---**	**0.0011**	**0.028**	<0.0020	<0.0060	<0.00050	**0.0025**
	8/2/2022	**27**	<10	**840**	**310**	**334.4**	**334.4**	**0.0013**	**0.057**	<0.0020	<0.0060	<0.0025	**0.013**

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TABLE 3C
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San Juan County, New Mexico

Sample Location	Sample Date	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)
Screening Source		Anions - NMAC 20.6.2						Total Metals - NMAC 20.6.2					
Screening Levels		10	-	600	-	-	-	0.01	2.0	0.005	0.05	0.015	0.05
MW-29	8/2/2022	28	<10	850	310	335.2	335.2	0.0013	0.059	<0.0020	<0.0060	<0.0025	0.013
MW-30	8/7/2008	<0.10	<0.50	12	1500	1400	1400	<0.02	0.72	<0.002	<0.006	<0.005	<0.25
	8/7/2009	<2.0	<5.0	24	1100	1200	1200	<0.02	0.91	<0.002	<0.006	<0.005	<0.05
	8/7/2010	<0.10	<0.50	47	1300	1300	1300	<0.02	0.77	<0.002	<0.006	<0.005	<0.05
	4/1/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/16/2011	9.50	<0.50	9	1300	1400	1400	<0.02	0.84	<0.002	<0.006	<0.005	<0.05
	4/1/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/9/2012	< 0.5	< 2.5	23	1400	1500	1500	< 0.02	1.1	< 0.002	< 0.006	< 0.005	< 0.05
	4/1/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	< 0.50	< 2.5	24	1300	1400	1400	< 0.020	0.73	< 0.0020	0.0081	0.031	< 0.050
	4/1/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/2/2014	< 0.50	< 2.5	47	1200	1300	1300	< 0.020	0.66	< 0.0020	< 0.0060	< 0.0050	< 0.050
	4/1/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	1	< 0.50	36	1400	1493	1493	< 0.020	1.1	< 0.0020	< 0.0060	< 0.0050	< 0.050
	4/21/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2016	< 0.50	< 2.5	69	1300	1403	1403	< 0.020	0.74	< 0.0020	0.01	0.019	< 0.050
	4/21/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/10/2020	0.66	<1.2	260	880	981.8	981.8	0.0054	0.57	<0.0009	0.0014	0.0013	<0.0025
	4/11/2022	Sheen Observed - Could Not Sample											
	8/2/2022	Sheen Observed - Could Not Sample											
MW-31	8/7/2008	<0.10	<0.50	6.4	1100	1100	1100	<0.02	1.1	<0.002	<0.006	<0.005	<0.05
	8/24/2009	0.14	<0.50	22.0	1000	1100	1100	<0.02	0.81	<0.002	<0.006	<0.005	<0.05
	8/7/2010	0.95	<0.50	4.8	1100	1100	1100	<0.02	0.79	<0.002	<0.006	<0.005	<0.05
	8/16/2011	---	<0.50	9	1000	1100	1100	<0.02	0.8	<0.002	<0.006	<0.005	<0.05
	8/9/2012	0.73	< 0.5	88	1100	1200	1200	< 0.020	1.1	<0.002	<0.006	<0.005	<0.05
	8/12/2013	0.92	< 0.50	4.6	1100	1200	1200	< 0.020	0.90	< 0.0020	< 0.0060	0.0013	< 0.050
	8/2/2014	< 2.0	< 0.50	5.4	1100	1200	1200	< 0.020	0.69	< 0.0020	< 0.0060	< 0.0050	< 0.050
	8/1/2015	0.63	< 0.50	17	1100	1264	1264	< 0.020	1.4	< 0.0020	< 0.0060	< 0.0050	< 0.050
	8/22/2016	< 1.0	< 0.50	160	1000	1115	1115	< 0.020	0.7	< 0.0020	< 0.0060	< 0.0050	< 0.050
	8/24/2017	< 1.0	< 0.50	78	1100	1164	1164	0.015 J	0.37	< 0.0020	< 0.0060	< 0.0050	< 0.050
	8/8/2018	< 1.0	< 0.50	78	1100 H	1217	1217	<0.020	0.90	< 0.0020	< 0.0060	< 0.0050	< 0.050
	8/23/2019	0.13 J	<2.5 H	79	960	1073	1073	<0.020	0.92	< 0.0020	< 0.0060	< 0.0050	< 0.050
	8/12/2020	<0.10	<1.2	8.3	1100	1220	1220	<0.0025	0.48	<0.00090	<0.0014	<0.00050	<0.0025
	8/24/2021	---	---	---	---	---	---	<0.010	0.55	<0.0020	<0.0060	<0.0050	<0.010
	8/2/2022	<0.50	<2.5	120	970	1127	1127	0.00091 J	0.58	<0.0020	<0.0060	<0.0025	<0.0010
MW-40	8/7/2008	<2.0	<0.50	<0.50	1200	1200	1200	<0.02	1.8	<0.002	<0.006	<0.005	<0.25
	8/7/2009	<0.10	<0.50	<0.50	1100	1100	1100	<0.02	2.8	<0.002	<0.006	0.0075	<0.25
	8/16/2011	16.00	<2.5	<2.5	1100	1200	1200	<0.02	2.0	<0.002	<0.006	<0.005	<0.05

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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)
Screening Source		Anions - NMAC 20.6.2						Total Metals - NMAC 20.6.2					
Screening Levels		10	-	600	-	-	-	0.01	2.0	0.005	0.05	0.015	0.05
MW-40	8/12/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/8/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/23/2016	< 0.50	< 2.5	< 2.5	1200	1190	1190	< 0.020	2.3	< 0.0020	0.018	0.0098	< 0.050
	8/24/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/2/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2020	<0.061*	<1.2	<1.2	950	1078	1069	0.0031	2.2	0.0012	<0.0014	0.0036	0.0011
	8/18/2021	---	---	---	---	---	---	0.0026	2.0	<0.0020	<0.0060	0.0018	<0.0010
	8/1/2022	FPP - Could Not Sample											
RW-42	8/24/2016	< 0.50	3.4	< 2.5	1100	1130	1130	0.094	13	< 0.0020	0.16	0.092	< 0.050
	8/24/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/11/2020	<0.061*	<1.2	<1.2	1100	1172	1172	0.004	2.6	0.00096	<0.0014	0.001	<0.0025
	8/1/2022	Pump running in well - Not able to sample											
RW-43	8/7/2008	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2009	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2010	<1.0	6.00	15.00	1000	1000	1000	<0.02	7.5	<0.002	0.14	0.03	<0.05
	8/16/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/8/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/24/2016	< 0.50	3.1	6.9	1100	1165	1165	< 0.020	13	< 0.0020	0.37	0.055	< 0.050
	8/1/2022	FPP - Could Not Sample											
MW-44	8/7/2008	<0.10	<0.50	3000	360	350	350	<0.02	<0.02	<0.002	<0.006	<0.005	<0.25
	8/7/2009	*<1.0	<0.50	2900	330	350	350	<0.02	<0.02	<0.002	<0.006	<0.005	<0.05
	8/7/2010	0.19	<10	3200	340	340	340	<0.02	<0.02	<0.002	<0.006	<0.005	<0.05
	8/16/2011	---	<10	3200	340	360	360	<0.02	<0.02	<0.002	<0.006	<0.005	<0.05
	8/9/2012	< 0.1	< 10	3000	360	380	380	< 0.02	0.22	< 0.002	0.037	0.010	< 0.05
	8/12/2013	0.23	< 10	2800	350	380	380	< 0.020	0.32	< 0.0020	0.046	0.023	< 0.050
	8/2/2014	< 0.10	< 10	3200	330	360	360	< 0.020	0.012	< 0.0020	< 0.0060	< 0.0050	< 0.050
	8/1/2015	0.13	< 10	3000	340	377.6	377.6	< 0.020	0.19	< 0.0020	0.029	0.0053	< 0.050
	8/23/2016	< 0.10	< 10	3000	360	376.3	376.3	< 0.020	0.17	< 0.0020	0.026	< 0.0050	< 0.050
	8/24/2017	< 1.0	< 10	3000	350	371.8	371.8	0.026	0.066	< 0.0020	0.0062	< 0.0050	< 0.050
	8/8/2018	0.050 J	< 10	3000	350	373.5	373.5	<0.020	0.068	< 0.0020	0.0059	< 0.0050	< 0.050

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San Juan County, New Mexico

Sample Location	Sample Date	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)
Screening Source		Anions - NMAC 20.6.2						Total Metals - NMAC 20.6.2					
Screening Levels		10	-	600	-	-	-	0.01	2.0	0.005	0.05	0.015	0.05
MW-44	8/23/2019	**0.11**	<10 H	**3500**	**340**	**371.1**	**371.1**	**0.017 J**	**0.082**	< 0.0020	**0.0072**	**0.0042**	< 0.050
	8/10/2020	<0.10	<5.0	**3100**	**340**	**372**	**372**	**0.00078**	**0.0099**	<0.0009	<0.0014	<0.0025	<0.0050
	8/19/2021	---	---	---	---	---	---	<0.010	**0.015**	<0.0020	<0.0060	<0.0050	<0.010
	8/1/2022	---	<2.5	**2700**	**340**	**357.1**	**357.1**	<0.0050	**0.016**	<0.0020	<0.0060	<0.0025	<0.0050
MW-52	4/20/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/19/2015	**19**	< 10	**1100**	**200**	**207.5**	**207.5**	< 0.020	**0.099**	< 0.0020	< 0.0060	< 0.0050	**0.069**
	4/20/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/22/2016	**42**	< 10	**1400**	**180**	**175**	**175**	< 0.020	**0.14**	< 0.0020	< 0.0060	**0.0059**	**0.065**
	4/21/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/24/2017	**40**	< 10	**1200**	**220**	**203.2**	**203.2**	< 0.050	**0.24**	< 0.0020	**0.0056 J**	< 0.0050	< 0.050
	8/23/2019	**39**	<1.2	**1400**	**340**	**358.2**	**358.2**	< 0.020	**0.057**	< 0.0020	<0.0060	**0.0045 J**	< 0.050
	8/10/2020	**24**	<1.2	**980**	**230**	**246.4**	**246.4**	**0.0017**	**0.013**	<0.00090	<0.0014	<0.00050	**0.066**
	4/28/2021	---	---	---	---	---	---	---	---	---	---	---	---
	4/28/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/18/2021	---	---	---	---	---	---	<0.0050	**0.016**	<0.0020	<0.0060	<0.00050	**0.040**
	4/13/2022	---	---	---	---	---	---	---	---	---	---	---	---
	8/2/2022	**44**	<10	**1400**	**120**	**117.5**	**117.5**	**0.0011**	**0.018**	<0.0020	<0.0060	<0.0025	**0.056**

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

FPP = Free Product Present

Not on Plan = Sample Not Required Per 2014 Facility-Wide Groundwater Monitoring Plan

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Sample Location	Sample Date	Silver (mg/L)	Mercury (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)
Screening Source		Total Metals - NMAC 20.6.2		Dissolved Metals - NMAC 20.6.2									
Screening Levels		0.05	0.002	0.01	2.0	0.005	-	0.05	1.0	1.0	0.015	-	0.2
RW-1	8/7/2020	**0.0019**	<0.00012	**0.0025**	**0.22**	<0.0004	**150**	**0.032**	<0.0025	**4.5**	<0.0025	**67**	**1.9**
	8/18/2021	<0.0050	<0.00020	**0.0034**	**1.7**	<0.0020	**140**	<0.0060	<0.0010	**14**	<0.00050	**41**	**4.0**
	8/1/2022	Sheen Observed - Could Not Sample											
MW-4	8/1/2015	< 0.0050	< 0.00020	< 0.020	**2.3**	< 0.0020	**170**	< 0.0060	< 0.0060	**6.2**	**0.0065**	**66**	**3.5**
	8/23/2016	< 0.0050	< 0.00020	< 0.020	**2.3**	< 0.0020	**170**	**0.011**	**0.16**	**43**	**0.014**	**61**	**8.6**
	8/23/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/10/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2020	<0.0013	<0.00012	**0.0049**	**2.5**	**0.00061**	**130**	<0.0012	<0.0025	**10**	<0.0025	**66**	**1.0**
	8/16/2021	<0.00050	<0.00020	**0.015**	**2.0**	<0.00050	**120**	<0.0060	**0.0012**	**4.5**	<0.00050	**51**	**1.4**
	8/3/2022	<0.0050	<0.00020	**0.0069**	**2.4**	<0.0020	**120**	<0.0060	<0.0010	**7.0**	**0.00039**	**64**	**1.4**
MW-8	8/7/2008	<0.005	<0.0002	<0.02	<0.02	<0.002	---	**0.007**	<0.006	**0.082**	<0.005	---	**0.027**
	8/7/2009	<0.005	<0.0002	<0.02	**0.025**	<0.002	**150**	<0.006	<0.006	**0.042**	<0.005	**12**	**0.61**
	8/7/2010	<0.005	**0.0003**	<0.02	**0.025**	<0.002	**200**	**3.2**	<0.006	**34**	<0.005	**30**	**9.9**
	4/1/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/16/2011	<0.005	**0.074**	**0.0032**	**0.014**	<0.002	**190**	**0.09**	<0.006	**4.6**	<0.005	**36**	**2.4**
	4/1/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/9/2012	< 0.01	**0.0040**	**0.011**	**0.026**	< 0.01	**240**	**3.9**	**0.17**	**60**	**0.0016**	**48**	**9.6**
	4/1/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	< 0.025	**0.0012**	< 0.0050	**0.012**	< 0.0020	**140**	**0.019**	**0.0076**	**2.5**	< 0.0010	**31**	**2.7**
	8/22/2016	< 0.0050	**0.0029**	< 0.020	<0.02	< 0.0020	**180**	**0.016**	<0.006	**1.4**	<0.005	**30**	**0.54**
	8/7/2020	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Not on Plan											
RW-9	8/7/2008	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2009	<0.005	<0.0002	<0.02	**0.25**	<0.002	**140**	<0.006	<0.006	**2.3**	0.007	**39**	**2.2**
	8/7/2010	<0.005	<0.0008	<0.02	**3.2**	<0.002	**160**	<0.006	<0.006	**1.5**	<0.005	**54**	**2.1**
	8/16/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/9/2012	<0.005	<0.0002	**0.02**	**3.8**	<0.002	**230**	0.007	<0.006	**43**	**0.014**	**71**	**5.6**
	8/1/2022	Sheen Observed - Could Not Sample											
RW-15	8/7/2008	<0.005	<0.001	<0.02	**1.2**	<0.002	**130**	<0.006	<0.006	**5.3**	<0.005	**44**	**2.8**
	8/7/2009	<0.005	<0.0002	<0.02	**1.5**	<0.002	**150**	<0.006	<0.006	**7.2**	<0.005	**51**	**4**
	8/7/2010	<0.005	<0.0002	<0.02	**1.5**	<0.002	**160**	<0.006	<0.006	**14**	<0.005	**54**	**2.3**
	8/16/2011	<0.005	<0.0002	**0.011**	**1.3**	<0.002	**79**	<0.006	<0.006	**18**	<0.005	**48**	**1.2**
	8/9/2012	<0.005	<0.0002	**0.0074**	**1.1**	<0.002	**130**	<0.006	<0.006	**11**	< 0.001	**46**	**1.4**
	8/12/2013	< 0.025	< 0.00020	< 0.010	**1.1**	< 0.0020	**140**	< 0.0060	0.014	**9.0**	< 0.0010	**43**	**1.5**
	8/1/2014	< 0.0050	< 0.00020	< 0.010	**1.4**	< 0.0020	**150**	< 0.0060	< 0.010	**6.8**	< 0.0010	**47**	**3.6**
	8/1/2015	< 0.0050	< 0.00020	< 0.020	**1.6**	< 0.0020	**170**	< 0.0060	< 0.0060	**48**	< 0.0050	**49**	**3**
	8/23/2016	< 0.0050	< 0.00020	< 0.020	**1.2**	< 0.0020	**150**	< 0.0060	**0.0098**	**12**	**0.0077**	**45**	**3.1**
	8/23/2017	---	---	---	---	---	---	---	---	---	---	---	---

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Sample Location	Sample Date	Silver (mg/L)	Mercury (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)
Screening Source		Total Metals - NMAC 20.6.2		Dissolved Metals - NMAC 20.6.2									
Screening Levels		0.05	0.002	0.01	2.0	0.005	-	0.05	1.0	1.0	0.015	-	0.2
RW-15	8/10/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/10/2020	**0.0023**	<0.00012	<0.0025	**0.92**	<0.00037	**130**	<0.0012	<0.0025	**4.7**	<0.0025	**49**	**2.8**
	8/19/2021	<0.0050	<0.00020	<0.0010	**0.86**	<0.00020	**140**	<0.0060	**0.0020**	**5.1**	<0.00050	**45**	**2.5**
	8/1/2022	FPP - Could Not Sample											
RW-18	8/7/2008	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2009	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2010	<0.005	**0.0025**	<0.02	**0.048**	<0.002	**110**	<0.006	<0.006	**3**	<0.005	**98**	**0.56**
	8/16/2011	<0.010	**0.0059**	**0.0034**	**0.035**	<0.002	**420**	<0.006	<0.006	**11**	<0.005	**120**	**6.2**
	8/1/2022	Well Could Not Be Accessed											
MW-20	8/20/2020	---	---	---	---	---	---	---	---	---	---	---	---
	4/11/2022	Sheen Observed - Could Not Sample											
	8/1/2022	Sheen Observed - Could Not Sample											
MW-21	8/10/2020	**0.0046**	<0.00012	<0.0025	0.42	<0.00037	**180**	<0.0012	<0.0025	**0.091**	<0.0025	**57**	**1.7**
	8/20/2021	<0.0050	<0.00020	<0.0010	**0.58**	<0.0020	**140**	<0.00060	<0.0010	**0.39**	<0.00050	**40**	**1.4**
	8/1/2022	Sheen Observed - Could Not Sample											
RW-23	8/7/2009	<0.005	<0.0002	<0.02	**1.3**	<0.002	**120**	<0.006	<0.006	**1.1**	**0.0086**	**52**	**4.6**
	8/7/2010	<0.005	<0.0002	<0.02	**2.4**	<0.002	**140**	<0.006	<0.006	**11**	**0.006**	**58**	**6.1**
	8/12/2020	<0.0013	<0.00012	**0.0057**	**0.47**	**0.00047**	**170**	<0.0012	<0.0025	**11**	**0.0042**	**53**	**1.6**
	8/2/2022	Sheen Observed - Could Not Sample											
RW-28	8/7/2008	<0.005	<0.0002	<0.02	**1.4**	<0.002	**110**	<0.006	<0.006	**2.9**	**0.013**	**47**	**4.6**
	8/1/2022	FPP - Could Not Sample											
MW-29	8/7/2008	<0.005	<0.0002	<0.02	<0.02	<0.002	---	<0.006	<0.006	<0.02	<0.005	---	**0.97**
	8/7/2009	<0.005	<0.0002	<0.02	<0.02	<0.002	**53**	<0.006	<0.006	<0.02	<0.005	**14**	**0.87**
	8/7/2010	<0.005	<0.0002	<0.02	**0.027**	<0.002	**90**	<0.006	<0.006	<0.02	<0.005	**23**	**1.6**
	8/16/2011	<0.005	<0.0002	**0.0015**	**0.026**	<0.002	**82**	<0.006	<0.006	<0.02	<0.005	**20**	**1.4**
	8/9/2012	<0.005	<0.0002	**0.0013**	**0.02**	< 0.002	**69**	< 0.006	<0.006	<0.02	< 0.001	**16**	**1.2**
	8/12/2013	< 0.025	< 0.00020	< 0.0050	**0.037**	< 0.0020	**130**	< 0.0060	< 0.0050	< 0.020	< 0.0010	**30**	**2.3**
	8/2/2014	< 0.0050	< 0.00020	**0.0013**	**0.021**	< 0.0020	**83**	< 0.0060	**0.0022**	< 0.020	< 0.0010	**19**	**1.7**
	8/1/2015	< 0.0050	< 0.00020	< 0.020	< 0.020	< 0.0020	**74**	< 0.0060	< 0.0060	< 0.020	< 0.0050	**17**	**1.3**
	8/24/2016	< 0.0050	< 0.00020	< 0.020	**0.023**	< 0.0020	**83**	< 0.0060	< 0.0060	**0.12**	< 0.0050	**18**	**1.4**
	8/24/2017	< 0.0050	< 0.00020	< 0.020	**0.03**	< 0.0020	**130**	< 0.0060	< 0.0060	< 0.020	< 0.0050	**28**	**2.7**
	8/8/2018	**0.0036**	**0.000085J**	< 0.020	**0.031**	< 0.0020	**130**	< 0.0060	< 0.0060	< 0.020	**0.0053**	**30**	**2.6**
	8/23/2019	**0.00066**	**0.00012J**	< 0.020	**0.014**	< 0.0020	**75**	< 0.0060	< 0.0060	< 0.020	<0.0050	**17**	**1.1**
	8/10/2020	**0.0025**	<0.00012	<0.0025	**0.014**	<0.00037	**99**	<0.0012	<0.0025	<0.0080	<0.0005	**24**	**0.0095**
	8/20/2021	<0.0050	<0.00020	<0.0010	**0.020**	<0.0020	**92**	<0.0060	<0.0010	<0.020	<0.00050	**20**	**1.1**
	8/2/2022	<0.0050	**0.000092 J**	**0.00071 J**	**0.046**	<0.0020	**270**	<0.0060	<0.0050	<0.020	<0.0025	**53**	**0.76**
	8/2/2022	<0.0050	<0.00020	**0.0012**	**0.046**	<0.0020	**280**	<0.0060	**0.0012**	<0.020	<0.00050	**52**	**0.73**

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TABLE 3D
TERMINAL WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Silver (mg/L)	Mercury (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)
Screening Source		Total Metals - NMAC 20.6.2		Dissolved Metals - NMAC 20.6.2									
Screening Levels		0.05	0.002	0.01	2.0	0.005	-	0.05	1.0	1.0	0.015	-	0.2
MW-30	8/7/2008	<0.005	<0.0002	<0.02	0.72	<0.002	---	<0.006	<0.006	0.37	<0.005	---	1.7
	8/7/2009	<0.005	<0.0002	<0.02	0.7	<0.002	190	<0.006	<0.006	0.4	<0.005	42	1.7
	8/7/2010	<0.005	<0.0002	<0.02	0.74	<0.002	150	<0.006	<0.006	0.1	<0.005	35	1.4
	4/1/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/16/2011	<0.005	<0.0002	0.0036	0.83	<0.002	150	<0.006	<0.006	0.14	<0.005	36	1.5
	4/1/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/9/2012	< 0.005	< 0.0002	0.0039	0.93	< 0.002	150	< 0.006	< 0.006	2.7	< 0.001	48	2.8
	4/1/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	< 0.025	< 0.00020	0.0067	0.93	< 0.0020	140	< 0.0060	0.018	3.3	< 0.0010	42	2.2
	4/1/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/2/2014	< 0.0050	< 0.00020	< 0.010	0.44	< 0.0020	200	< 0.0060	< 0.010	0.35	< 0.010	41	1.1
	4/1/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	< 0.0050	< 0.00020	< 0.020	1	< 0.0020	160	< 0.0060	< 0.0060	1.5	0.0074	52	2.9
	4/21/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2016	< 0.0050	< 0.00020	< 0.020	0.56	< 0.0020	150	< 0.0060	< 0.0060	7.4	0.0066	36	1.2
	4/21/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/10/2020	0.0039	<0.00012	0.0034	0.59	<0.00037	210	<0.0012	<0.0025	0.82	<0.0025	54	3.4
	4/11/2022	Sheen Observed - Could Not Sample											
	8/2/2022	Sheen Observed - Could Not Sample											
MW-31	8/7/2008	<0.005	<0.0002	<0.02	1.1	<0.002	---	<0.006	<0.006	0.21	<0.005	NS[3]	0.71
	8/24/2009	<0.005	<0.0002	<0.02	0.81	<0.002	150	<0.006	<0.006	0.12	<0.005	63	0.51
	8/7/2010	<0.005	<0.0002	<0.02	0.72	<0.002	140	<0.006	<0.006	0.1	<0.005	67	0.47
	8/16/2011	<0.005	<0.0002	0.0063	0.76	<0.002	110	<0.006	<0.006	0.14	<0.005	53	0.44
	8/9/2012	<0.005	<0.0002	0.0042	1.3	< 0.002	140	<0.006	<0.006	0.19	< 0.001	53	1.1
	8/12/2013	< 0.025	< 0.00020	< 0.010	0.81	< 0.0020	100	< 0.0060	0.016	0.2	< 0.0010	42	0.56
	8/2/2014	< 0.0050	< 0.00020	< 0.010	0.59	< 0.0020	98	< 0.0060	< 0.010	0.079	< 0.010	36	0.47
	8/1/2015	< 0.0050	< 0.00020	< 0.020	1.4	< 0.0020	110	< 0.0060	< 0.0060	0.26	< 0.0050	45	1.1
	8/22/2016	< 0.0050	< 0.00020	< 0.020	0.58	< 0.0020	110	< 0.0060	< 0.0060	1.2	< 0.0050	38	0.4
	8/24/2017	< 0.0050	< 0.00020	< 0.020	0.76	< 0.0020	100	< 0.0060	< 0.0060	0.14	< 0.0050	32	0.42
	8/8/2018	0.0033 J	< 0.00020	< 0.020	0.89	< 0.0020	110	< 0.0060	< 0.0060	0.097	< 0.0050	38	0.65
	8/23/2019	0.0020 J	0.000082J	< 0.020	0.87	< 0.0020	110	< 0.0060	< 0.0060	0.035	< 0.0050	37	0.63
	8/12/2020	0.0013	<0.00012	<0.0025	0.43	<0.00037	86	<0.0012	<0.0025	0.072	<0.00050	35	0.34
	8/24/2021	<0.0050	<0.0020	<0.020	0.52	<0.0020	82	<0.0060	<0.020	0.049	<0.010	28	0.37
	8/2/2022	<0.0050	<0.00020	0.0013	0.53	<0.0020	89	<0.0060	<0.0010	0.015 J	<0.00050	34	0.34
MW-40	8/7/2008	<0.005	<0.0002	<0.02	1.8	<0.002	91	<0.006	<0.006	5.5	<0.005	42	2.5
	8/7/2009	<0.005	<0.0002	<0.02	1.7	<0.002	86	<0.006	<0.006	6.2	<0.005	41	2.3
	8/16/2011	<0.005	<0.0002	0.0055	1.8	<0.002	95	<0.006	<0.006	5	<0.005	44	2.3
	8/12/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	---	---	---	---	---	---	---	---	---	---	---	---

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TABLE 3D
TERMINAL WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Silver (mg/L)	Mercury (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)
Screening Source		**Total Metals - NMAC 20.6.2**		**Dissolved Metals - NMAC 20.6.2**									
Screening Levels		**0.05**	**0.002**	**0.01**	**2.0**	**0.005**	**-**	**0.05**	**1.0**	**1.0**	**0.015**	**-**	**0.2**
MW-40	8/8/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/23/2016	**0.014**	< 0.00020	< 0.020	**1.8**	< 0.0020	**97**	< 0.0060	< 0.0060	**4.9**	< 0.0050	**44**	**2.3**
	8/24/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/2/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2020	<0.0013	<0.00012	<0.0025	**2.0**	<0.00037	**120**	<0.0012	**0.0038**	**6.5**	<0.0025	**52**	**2.5**
	8/18/2021	<0.0050	<0.00020	**0.0022**	**2.0**	<0.0020	**100**	<0.0060	<0.0010	**5.3**	<0.00050	**44**	**2.4**
	8/2/2022	FPP - Could Not Sample											
RW-42	8/24/2016	< 0.0050	< 0.00020	< 0.020	**6.4**	< 0.0020	**120**	**0.014**	< 0.0060	**69**	**0.036**	**74**	**4**
	8/24/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/11/2020	<0.0013	<0.00012	**0.0036**	**2.6**	<0.00037	**93**	<0.0012	<0.0025	**11**	<0.0025	**65**	**1.7**
	8/1/2022	Pump running in well - Not able to sample											
RW-43	8/7/2008	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2009	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2010	<0.005	**0.0009**	<0.02	**2.6**	<0.002	**120**	<0.006	<0.006	**0.85**	<0.005	**61**	**2.8**
	8/16/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/8/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/24/2016	< 0.0050	< 0.00020	< 0.020	**1.1**	< 0.0020	**180**	**0.27**	**0.017**	**27**	**0.015**	**63**	**6.5**
	8/1/2022	FPP - Could Not Sample											
MW-44	8/7/2008	<0.005	<0.0002	<0.02	<0.02	<0.002	**470**	<0.006	<0.006	**0.083**	<0.005	**64**	**1.7**
	8/7/2009	<0.005	<0.0002	<0.02	**0.7**	<0.002	**190**	<0.006	<0.006	**0.4**	<0.005	**42**	**1.7**
	8/7/2010	<0.005	<0.0002	<0.02	<0.02	<0.002	**470**	<0.006	<0.006	<0.02	<0.005	**68**	**0.025**
	8/16/2011	<0.005	<0.0002	<0.002	**0.014**	<0.002	**480**	<0.006	<0.006	<0.02	<0.005	**68**	**0.0029**
	8/9/2012	< 0.005	< 0.0002	< 0.001	**0.015**	< 0.002	**490**	< 0.006	< 0.006	**0.35**	< 0.001	**58**	**0.91**
	8/12/2013	< 0.025	< 0.00020	< 0.020	**0.014**	< 0.0020	**470**	< 0.0060	**0.034**	**0.37**	< 0.0010	**56**	**0.82**
	8/2/2014	< 0.0050	< 0.00020	< 0.0010	**0.0094**	< 0.0020	**460**	< 0.0060	< 0.020	< 0.020	< 0.0010	**65**	**0.47**
	8/1/2015	< 0.0050	< 0.00020	< 0.020	< 0.020	< 0.0020	**470**	< 0.0060	< 0.0060	**0.036**	< 0.0050	**59**	**0.99**
	8/23/2016	< 0.0050	< 0.00020	< 0.020	**0.02**	< 0.0020	**480**	< 0.0060	< 0.0060	**2.9**	< 0.0050	**59**	**1.2**
	8/24/2017	< 0.0050	< 0.00020	**0.034**	**0.011J**	< 0.0020	**480**	< 0.0060	< 0.0060	**0.032**	< 0.0050	**58**	**0.79**
	8/8/2018	**0.013**	**0.000085J**	<0.020	**0.01**	< 0.0020	**480**	< 0.0060	< 0.0060	**0.029**	< 0.0050	**58**	**0.68**
	8/23/2019	**0.0056**	**0.00014 J**	<0.020	**0.0096**	< 0.0020	**470**	< 0.0060	**0.0024 J**	**0.014 J**	< 0.0050	**59**	**0.43**
	8/10/2020	**0.01**	<0.00012	<0.0025	**0.0066**	<0.00037	**480**	<0.0012	<0.0025	**0.022**	<0.0025	**69**	**0.16**
	8/19/2021	<0.0050	<0.00020	<0.0010	**0.011**	<0.0020	**470**	<0.0060	<0.0010	**0.19**	<0.00050	**73**	**2.3**

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TABLE 3D
TERMINAL WELLS ANALYTICAL SUMMARY
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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Silver (mg/L)	Mercury (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)
Screening Source		Total Metals - NMAC 20.6.2		Dissolved Metals - NMAC 20.6.2									
Screening Levels		0.05	0.002	0.01	2.0	0.005	-	0.05	1.0	1.0	0.015	-	0.2
MW-44	8/1/2022	**0.0023 J**	<0.00020	**0.00092 J**	**0.0092**	<0.0020	**490**	<0.0060	<0.0050	**0.96**	<0.0025	**66**	**1.8**
MW-52	4/20/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/19/2015	< 0.0050	< 0.00020	< 0.020	< 0.020	< 0.0020	**320**	< 0.0060	< 0.0060	**2.2**	< 0.0050	**77**	**3.9**
	4/20/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/22/2016	< 0.0050	< 0.00020	< 0.020	**0.021**	< 0.0020	**380**	< 0.0060	< 0.0060	**3.9**	< 0.0050	**100**	**5.7**
	4/21/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/24/2017	< 0.0050	< 0.00020	< 0.10	**0.015 J**	< 0.0020	**360**	< 0.0060	< 0.0060	**0.0079 J**	< 0.0050	**90**	**2.2**
	8/23/2019	**0.0023 J**	**0.00013 J**	<0.020	**0.032**	< 0.0020	**160**	< 0.0060	< 0.0060	<0.020	< 0.0050	**31**	**0.15**
	8/10/2020	**0.0056**	<0.00012	<0.0025	**0.0098**	<0.00037	**230**	<0.0012	**0.0028**	<0.008	<0.0025	**54**	**0.12**
	4/28/2021	**---**	---	---	**---**	---	**---**	---	**---**	---	---	**---**	**---**
	4/28/2021	**---**	---	---	**---**	---	**---**	---	**---**	---	---	**---**	**---**
	8/18/2021	<0.0050	<0.00020	**0.0012**	**0.016**	<0.0020	**280**	<0.0060	**0.0010**	**0.047**	<0.00050	**81**	**4.2**
	4/13/2022	**---**	---	---	**---**	---	**---**	---	**---**	---	---	**---**	**---**
	8/2/2022	**0.0021 J**	**0.000093 J**	**0.00090 J**	**0.012**	<0.0020	**420**	<0.0060	<0.0050	**0.021**	<0.0025	**120**	**5.0**

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

FPP = Free Product Present

Not on Plan = Sample Not Required Per 2014 Facility-Wide Groundwater Monitoring Plan

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TABLE 3E
TERMINAL WELLS ANALYTICAL SUMMARY
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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
Screening Source		Dissolved Metals - NMAC 20.6.2					
Screening Levels		-	0.05	0.05	-	0.03	10.0
RW-1	8/7/2020	**5.0**	<0.0025	**0.0036**	**650**	<0.0025	**0.013**
	8/18/2021	**5.0**	<0.0010	<0.0050	**370**	---	**0.010**
	8/1/2022	Sheen Observed - Could Not Sample					
MW-4	8/1/2015	**4.3**	< 0.050	< 0.0050	**360**	< 0.10	**0.024**
	8/23/2016	**4.7**	< 0.050	< 0.0050	**380**	< 0.10	**0.033**
	8/23/2017	---	---	---	---	---	---
	8/10/2018	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---
	8/12/2020	**4.6**	<0.0025	<0.0016	**490**	<0.0025	**0.018**
	8/16/2021	**6.0**	<0.0010	<0.0050	**590**	---	**0.020**
	8/3/2022	**4.6**	**0.0011**	**0.0018**	**550**	<0.00050	**0.0053**
MW-8	8/7/2008	---	<0.25	<0.005	---	**0.01**	**0.096**
	8/7/2009	**1.9**	<0.05	<0.005	**50**	**0.001**	<0.05
	8/7/2010	**3.1**	<0.05	<0.005	**260**	**0.005**	**0.17**
	4/1/2011	---	---	---	---	---	---
	8/16/2011	**3.1**	**0.021**	<0.005	**290**	**0.0016**	**0.22**
	4/1/2012	---	---	---	---	---	---
	8/9/2012	**5.4**	**0.040**	< 0.025	**330**	**0.03**	**0.54**
	4/1/2013	---	---	---	---	---	---
	8/12/2013	**3.1**	**0.04**	< 0.0050	**250**	**0.001**	**0.076**
	8/22/2016	**2.9**	< 0.050	< 0.0050	**290**	< 0.10	<0.02
	8/7/2020	---	---	---	---	---	---
	8/1/2022	Not on Plan					
RW-9	8/7/2008	---	---	---	---	---	---
	8/7/2009	**2.9**	<0.05	<0.005	**450**	<0.001	<0.05
	8/7/2010	**4.6**	<0.05	<0.005	**520**	<0.001	<0.05
	8/16/2011	---	---	---	---	---	---
	8/9/2012	**4.9**	0.013	<0.005	450	<0.001	**0.14**
	8/1/2022	Sheen Observed - Could Not Sample					
RW-15	8/7/2008	**3.7**	<0.25	<0.005	**550**	<0.001	**0.054**
	8/7/2009	**3.6**	<0.05	<0.005	**580**	<0.001	<0.05
	8/7/2010	**4.6**	<0.05	<0.005	**590**	<0.001	<0.05
	8/16/2011	**6.5**	**0.024**	<0.005	**600**	<0.001	**0.052**
	8/9/2012	**4.9**	**0.015**	<0.005	**550**	<0.001	**0.076**
	8/12/2013	**4.6**	**0.026**	< 0.0050	**530**	< 0.0010	< 0.010
	8/1/2014	**3.5**	**0.020**	< 0.0050	**560**	< 0.0010	**0.013**
	8/1/2015	**3.7**	< 0.050	< 0.0050	**560**	< 0.10	**0.15**
	8/23/2016	**3.7**	< 0.050	< 0.0050	**560**	< 0.10	**1.3**
	8/23/2017	---	---	---	---	---	---
	8/10/2018	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---
	8/10/2020	**3.6**	<0.0025	**0.0024**	**550**	<0.0025	**0.021**
	8/19/2021	**4.1**	<0.0010	<0.0050	**600**	---	**0.040**

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TABLE 3E
TERMINAL WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
Screening Source		Dissolved Metals - NMAC 20.6.2					
Screening Levels		-	0.05	0.05	-	0.03	10.0
RW-15	8/1/2022	FPP - Could Not Sample					
RW-18	8/7/2008	---	---	---	---	---	---
	8/7/2009	---	---	---	---	---	---
	8/7/2010	**7**	<0.05	<0.005	**1000**	<0.001	<0.05
	8/16/2011	**6.9**	**0.013**	<0.005	**1000**	<0.001	**0.063**
	8/1/2022	Well Could Not Be Accessed					
MW-20	8/20/2020	---	---	---	---	---	---
	4/11/2022	Sheen Observed - Could Not Sample					
	8/1/2022	Sheen Observed - Could Not Sample					
MW-21	8/10/2020	**3.9**	<0.0025	**0.0039**	**550**	<0.0025	**0.0093**
	8/20/2021	**3.1**	0.0017	<0.0050	**540**	---	<0.010
	8/1/2022	Sheen Observed - Could Not Sample					
RW-23	8/7/2009	**6.8**	<0.05	<0.005	**200**	<0.001	0.058
	8/7/2010	**8.2**	<0.05	<0.005	**220**	<0.001	<0.05
	8/12/2020	**4.3**	<0.0025	**0.0025**	**380**	<0.0025	**0.047**
	8/2/2022	Sheen Observed - Could Not Sample					
RW-28	8/7/2008	**6.3**	<0.25	<0.005	**170**	<0.001	<0.05
	8/1/2022	FPP - Could Not Sample					
MW-29	8/7/2008	NS[3]	<0.25	<0.005	---	**0.002**	**0.059**
	8/7/2009	**2.2**	<0.05	<0.005	**110**	**0.0017**	<0.05
	8/7/2010	**2.5**	<0.05	<0.005	**120**	**0.002**	<0.05
	8/16/2011	**2.7**	0.0026	<0.005	**130**	**0.0026**	**0.15**
	8/9/2012	**2.8**	0.0023	< 0.005	**120**	**0.0022**	**0.08**
	8/12/2013	**3.5**	< 0.0050	< 0.0050	**130**	**0.004**	< 0.010
	8/2/2014	**2.2**	**0.0025**	< 0.0050	**130**	**0.0034**	< 0.010
	8/1/2015	**2.2**	< 0.050	< 0.0050	**99**	< 0.10	**0.022**
	8/24/2016	**2.1**	< 0.050	< 0.0050	**120**	< 0.10	< 0.020
	8/24/2017	**2.6**	< 0.050	< 0.0050	**180**	< 0.10	**0.035**
	8/8/2018	**2.7**	< 0.050	< 0.0050	**190**	< 0.10	**0.020**
	8/23/2019	**1.8**	< 0.050	< 0.0050	**120**	< 0.10	**0.016**
	8/10/2020	**2.2**	**0.007**	**0.0027**	**180**	**0.0068**	**0.045**
	8/20/2021	**1.9**	**0.0024**	<0.0050	**110**	---	<0.010
	8/2/2022	**3.2**	**0.010**	**0.0050**	**320**	**0.0076**	**0.0047**
	8/2/2022	**3.1**	**0.013**	**0.0050**	**320**	**0.0084**	**0.0079**
MW-30	8/7/2008	NS[3]	<0.25	<0.005	---	<0.001	<0.05
	8/7/2009	**4**	<0.05	<0.005	**600**	<0.001	<0.05
	8/7/2010	**3.3**	<0.05	<0.005	**570**	<0.001	<0.05
	4/1/2011	---	---	---	---	---	---
	8/16/2011	**3.6**	**0.015**	<0.005	**580**	<0.001	**0.026**
	4/1/2012	---	---	---	---	---	---
	8/9/2012	**4.1**	**0.0098**	< 0.005	**590**	**0.0024**	**0.040**
	4/1/2013	---	---	---	---	---	---

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TABLE 3E
TERMINAL WELLS ANALYTICAL SUMMARY
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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
Screening Source		Dissolved Metals - NMAC 20.6.2					
Screening Levels		-	0.05	0.05	-	0.03	10.0
MW-30	8/12/2013	**3.8**	**0.016**	< 0.0050	**560**	**0.0021**	< 0.010
	4/1/2014	---	---	---	---	---	---
	8/2/2014	**3.2**	**0.014**	< 0.0050	**610**	< 0.010	< 0.010
	4/1/2015	---	---	---	---	---	---
	8/1/2015	**3.5**	< 0.050	< 0.0050	**560**	< 0.10	**0.034**
	4/21/2016	---	---	---	---	---	---
	8/1/2016	**3.3**	< 0.050	< 0.0050	**590**	< 0.10	**0.031**
	4/21/2017	---	---	---	---	---	---
	8/10/2020	**3.2**	<0.0025	**0.0042**	**590**	**0.0049**	**0.018**
	4/11/2022	Sheen Observed - Could Not Sample					
	8/2/2022	Sheen Observed - Could Not Sample					
MW-31	8/7/2008	NS[3]	<0.05	<0.005	---	<0.001	<0.05
	8/24/2009	**4.7**	<0.05	<0.005	**690**	<0.001	<0.05
	8/7/2010	**4.4**	<0.05	<0.005	**630**	<0.001	<0.05
	8/16/2011	**4.2**	**0.029**	<0.005	**610**	<0.001	**0.029**
	8/9/2012	**5.7**	**0.015**	<0.005	**570**	**0.008**	**0.085**
	8/12/2013	**4.3**	**0.024**	< 0.0050	**560**	< 0.0010	< 0.010
	8/2/2014	**3.3**	**0.014**	< 0.0050	**550**	< 0.0010	< 0.010
	8/1/2015	**4.4**	< 0.050	< 0.0050	**500**	< 0.10	**0.031**
	8/22/2016	**4.1**	< 0.050	< 0.0050	**540**	< 0.10	< 0.020
	8/24/2017	**3.7**	< 0.050	< 0.0050	**480**	< 0.10	**0.01 J**
	8/8/2018	**4.0**	< 0.050	**0.0032**	**480**	< 0.10	< 0.020
	8/23/2019	**3.8**	< 0.050	**0.0016 J**	**480**	< 0.10	**0.011 J**
	8/12/2020	**3.2**	<0.0025	<0.0016	**480**	<0.0025	**0.009**
	8/24/2021	**3.0**	<0.020	<0.0050	**470**	<0.010	<0.010
	8/2/2022	**3.1**	**0.00086 J**	**0.0019 J**	**520**	**0.00021 J**	**0.0053 J**
MW-40	8/7/2008	**3.5**	<0.25	<0.005	**520**	<0.001	0.063
	8/7/2009	**3.8**	<0.05	<0.005	**540**	<0.001	0.057
	8/16/2011	**3.8**	**0.014**	<0.005	**540**	<0.001	**0.14**
	8/12/2012	---	---	---	---	---	---
	8/12/2013	---	---	---	---		---
	8/8/2014	---	---	---	---	---	---
	8/1/2015	---	---	---	---	---	---
	8/23/2016	**3.5**	< 0.050	< 0.0050	**440**	< 0.10	**0.031**
	8/24/2017	---	---	---	---	---	---
	8/2/2018	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---
	8/7/2020	**3.7**	<0.0025	**0.0023**	**550**	<0.0025	**0.027**
	8/18/2021	**3.5**	<0.0010	<0.0050	**500**	---	**0.011**
	8/2/2022	FPP - Could Not Sample					
RW-42	8/24/2016	**5.4**	< 0.050	< 0.0050	**400**	< 0.10	**0.17**
	8/24/2017	---	---	---	---	---	---
	8/1/2018	---	---	---	---	---	---

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TABLE 3E
TERMINAL WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
Screening Source		Dissolved Metals - NMAC 20.6.2					
Screening Levels		-	0.05	0.05	-	0.03	10.0
RW-42	8/20/2019	---	---	---	---	---	---
	8/11/2020	**3.6**	<0.0025	<0.0016	**400**	<0.0025	**0.017**
	8/1/2022	Pump running in well - Not able to sample					
RW-43	8/7/2008	---	---	---	---	---	---
	8/7/2009	---	---	---	---	---	---
	8/7/2010	**40**	<0.05	<0.005	**410**	<0.001	<0.05
	8/16/2011	---	---	---	---	---	---
	8/12/2012	---	---	---	---	---	---
	8/12/2013	---	---	---	---	---	---
	8/8/2014	---	---	---	---	---	---
	8/1/2015	---	---	---	---	---	---
	8/24/2016	**14**	< 0.050	< 0.0050	**440**	< 0.10	**3**
	8/1/2022	FPP - Could Not Sample					
MW-44	8/7/2008	**8**	<0.25	<0.005	**900**	**0.001**	<0.05
	8/7/2009	**4**	<0.05	<0.005	**600**	<0.001	<0.05
	8/7/2010	**8.1**	<0.05	<0.005	**940**	<0.001	<0.05
	8/16/2011	**8.2**	<0.002	<0.005	**920**	<0.002	**0.086**
	8/9/2012	**8.8**	**0.0022**	< 0.005	**950**	**0.0015**	**0.22**
	8/12/2013	**8.6**	< 0.020	< 0.0050	**910**	**0.0019**	< 0.010
	8/2/2014	**7.3**	**0.0012**	< 0.0050	**900**	**0.0013**	< 0.010
	8/1/2015	**7.9**	< 0.050	< 0.0050	**960**	< 0.10	< 0.020
	8/23/2016	**7.9**	< 0.050	< 0.0050	**990**	< 0.10	**0.056**
	8/24/2017	**7.1**	< 0.050	< 0.0050	**910**	< 0.10	**0.032**
	8/8/2018	**7.2**	< 0.050	**0.014**	**850**	< 0.10	< 0.020
	8/23/2019	**7.6**	< 0.050	**0.0063**	**880**	< 0.10	0.024
	8/10/2020	**7.0**	<0.0025	**0.0074**	**870**	<0.0025	**0.028**
	8/19/2021	**8.3**	<0.0010	<0.0050	**960**	---	<0.010
	8/1/2022	**6.7**	<0.0050	**0.0083**	**950**	**0.00060 J**	**0.0053 J**
MW-52	4/20/2015	---	---	---	---	---	---
	8/19/2015	**4.7**	**0.09**	< 0.0050	**560**	< 0.10	**0.066**
	4/20/2016	---	---	---	---	---	---
	8/22/2016	**5.6**	**0.057**	< 0.0050	**650**	< 0.10	**0.2**
	4/21/2017	---	---	---	---	---	---
	8/24/2017	**4.8**	< 0.050	< 0.0050	**640**	< 0.10	**0.033**
	8/23/2019	**3.8**	< 0.050	**0.0020 J**	**72**	< 0.10	**0.044**
	8/10/2020	**4.1**	**0.065**	**0.004**	**540**	**0.01**	**0.023**
	4/28/2021	---	---	---	---	---	---
	4/28/2021	---	---	---	---	---	---
	8/18/2021	**4.7**	**0.042**	<0.0050	**600**	---	**0.052**
	4/13/2022	---	---	---	---	---	---
	8/2/2022	**4.4**	**0.059**	**0.0067**	**710**	**0.0028**	**0.057**

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TABLE 3E
TERMINAL WELLS ANALYTICAL SUMMARY
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Sample Location	Sample Date	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
Screening Source		Dissolved Metals - NMAC 20.6.2					
Screening Levels		-	0.05	0.05	-	0.03	10.0

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

FPP = Free Product Present

Not on Plan = Sample Not Required Per 2014 Facility-Wide Groundwater Monitoring Plan

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TABLE 4A
CROSS-GRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Acetone (µg/L)	Isopropylbenzene (µg/L)
Screening Source		NMAC 20.6.2					NMED Soil Screening Guidance Table A-1 (Tap Water)				
Screening Levels		5	1000	700	620	100	11.4	35.1	1.17	14100	447
MW-1	8/7/2009	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10.0	<1.0
	8/7/2010	**18.0**	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10.0	<1.0
	4/1/2011	< 1.0	<1.0	<1.0	< 2.0	<1.0	---	---	---	---	---
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	4/12/2012	< 1.0	<1.0	<1.0	< 2.0	<1.0	---	---	---	---	---
	8/12/2012	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 3.0	< 10	< 1.0
	4/12/2013	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	---	---	---	---	---
	8/12/2013	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	4/16/2014	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/12/2014	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	4/20/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/1/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	4/20/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/19/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	4/20/2017	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/25/2017	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	**2.2 J**	< 1.0
	4/18/2018	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/6/2018	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	**0.51 J**	**0.75 J**	**0.59 J**	< 10	< 1.0
	4/3/2019	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/21/2019	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	<10	< 1.0
	8/10/2020	<0.23	<0.20	<0.21	<0.55	<0.39	---	---	---	---	---
	4/28/2021	<1.0	<1.0	<1.0	<1.5	<1.0	---	---	---	---	---
	8/16/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	4/13/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	8/4/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	**4.7 J**	<1.0
MW-13	8/7/2009	<1.0	<1.0	<1.0	<1.5	**1.7**	**8.1**	<4.0	<2.0	<10.0	<1.0
	8/23/2010	<1.0	<1.0	<1.0	<1.5	**1.2**	<4.0	<4.0	<2.0	<10.0	<1.0
	4/1/2011	<1.0	<1.0	<1.0	<2.0	<1.0	---	---	---	---	---
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.5	**1.0**	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	4/12/2012	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	---	---	---
	8/12/2012	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 3.0	< 10	< 1.0
	4/12/2013	<1.0	<1.0	<1.0	<2.0	<1.0	---	---	---	---	---
	8/12/2013	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	4/16/2014	<1.0	<1.0	<1.0	<1.5	< 1.0	---	---	---	---	---
	8/12/2014	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	4/20/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/1/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	4/20/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/19/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	4/20/2017	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---

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TABLE 4A
CROSS-GRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Acetone (µg/L)	Isopropylbenzene (µg/L)
Screening Source		NMAC 20.6.2					NMED Soil Screening Guidance Table A-1 (Tap Water)				
Screening Levels		5	1000	700	620	100	11.4	35.1	1.17	14100	447
MW-13	8/25/2017	< 1.0	< 1.0	< 1.0	< 1.5	**0.51 J**	< 4.0	< 4.0	< 2.0	**3.2 J**	< 1.0
	4/18/2018	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/6/2018	< 1.0	< 1.0	< 1.0	< 1.5	**0.72 J**	< 4.0	< 4.0	< 2.0	<10	< 1.0
	4/3/2019	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/21/2019	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	<10	< 1.0
	8/10/2020	<0.23	<0.20	<0.21	<0.55	**0.56**	---	---	---	---	---
	4/28/2021	<1.0	<1.0	<1.0	<1.5	**1.8**	---	---	---	---	---
	8/23/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	4/13/2022	<1.0	<1.0	<1.0	<1.5	**1.2**	<4.0	<4.0	**0.51 J**	<10	<1.0
	8/5/2022	<1.0	<1.0	<1.0	1.5	**1.3**	<4.0	<4.0	<2.0	**2.8 J**	<1.0
MW-26	8/7/2009	<10	< 5.0	<5.0	< 7.5	**9.5**	<20	<20	<10	< 50	<5.0
	8/24/2010	**26**	< 10	**46**	< 15	< 10	< 40	< 40	**110**	< 100	**93**
	8/16/2011	**26**	< 10	**46**	< 15	< 10	< 40	< 40	**110**	< 100	**93**
	8/12/2012	**29**	< 10	**110**	**1400**	< 10	**130**	**210**	**290**	< 100	**68**
	8/12/2013	---	---	---	---	---	---	---	---	---	---
	8/12/2014	---	---	---	---	---	---	---	---	---	---
	8/1/2015	---	---	---	---	---	---	---	---	---	---
	8/1/2016	---	---	---	---	---	---	---	---	---	---
	8/1/2017	---	---	---	---	---	---	---	---	---	---
	8/7/2018	---	---	---	---	---	---	---	---	---	---
	8/19/2019	---	---	---	---	---	---	---	---	---	---
	8/10/2020	---	---	---	---	---	---	---	---	---	---
	8/17/2021	<1.0	<1.0	**2.0**	<1.5	<1.0	**16**	**24**	**110**	<10	**54**
	8/9/2022	**0.28 J**	<1.0	**0.60 J**	<1.5	<1.0	**23**	**27**	**87 P**	**5.4 J**	**42**
MW-27	8/7/2009	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10.0	<1.0
	8/24/2010	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10.0	<1.0
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/12/2012	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 3.0	< 10	< 1.0
	8/12/2013	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/12/2014	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	< 8.0	< 8.0	< 4.0	< 20	< 2.0
	8/1/2015	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	< 8.0	< 8.0	< 4.0	< 20	< 2.0
	8/19/2016	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	< 8.0	< 8.0	< 4.0	< 20	< 2.0
	8/29/2017	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/7/2018	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/22/2019	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/10/2020	<0.23	<0.20	<0.21	<0.55	<0.39	---	---	---	---	---
	8/23/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	8/9/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	**12**	<1.0

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TABLE 4A
CROSS-GRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Acetone (µg/L)	Isopropylbenzene (µg/L)
Screening Source		NMAC 20.6.2					NMED Soil Screening Guidance Table A-1 (Tap Water)				
Screening Levels		5	1000	700	620	100	11.4	35.1	1.17	14100	447
MW-32	8/7/2009	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10.0	<1.0
	8/7/2010	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10.0	<1.0
	8/16/2011	<1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/12/2012	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 3.0	< 10	< 1.0
	8/12/2013	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/12/2014	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/1/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/19/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/29/2017	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/7/2018	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/22/2019	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/10/2020	<0.23	<0.20	<0.21	<0.55	<0.39	---	---	---	---	---
	8/23/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	8/23/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	8/9/2022	<1.0	<1.0	<1.0	<1.5	<1.0	**1.1 J**	**1.2 J**	**1.5 J**	<10	<1.0
MW-33	4/20/2015	<1.0	<1.0	<1.0	<1.5	<1.0	---	---	---	---	---
	8/1/2015	---	---	---	---	---	---	---	---	---	---
	4/22/2016	<1.0	<1.0	<1.0	<1.5	<1.0	---	---	---	---	---
	8/19/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	4/20/2017	<1.0	<1.0	<1.0	<1.5	<1.0	---	---	---	---	---
	8/29/2017	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	4/18/2018	---	---	---	---	---	---	---	---	---	---
	8/7/2018	---	---	---	---	---	---	---	---	---	---
	4/4/2019	---	---	---	---	---	---	---	---	---	---
	8/22/2019	---	---	---	---	---	---	---	---	---	---
	8/11/2020	<0.23	<0.20	<0.21	<0.55	<0.39	---	---	---	---	---
	4/28/2021	<1.0	<1.0	<1.0	<1.5	<1.0	---	---	---	---	---
	8/23/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	4/12/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	8/4/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	**5.1 J**	<1.0

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TABLE 4A
CROSS-GRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Acetone (µg/L)	Isopropylbenzene (µg/L)
Screening Source		**NMAC 20.6.2**					**NMED Soil Screening Guidance Table A-1 (Tap Water)**				
Screening Levels		**5**	**1000**	**700**	**620**	**100**	**11.4**	**35.1**	**1.17**	**14100**	**447**

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

P = Sample pH not in range

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

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TABLE 4B
CROSS-GRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		EPA RSL Tap Water THQ = 0.1						NMED Soil Screening Guidance Table 6-4		
Screening Levels		5.6	6.0	-	100	66	200	0.0167	0.0101	0.0858
MW-1	8/7/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	**0.067**	<2.5
	8/7/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.05	<2.5
	4/1/2011	---	---	---	---	---	---	<0.20	<0.05	<2.5
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	4/12/2012	---	---	---	---	---	---	<0.20	<0.050	<2.5
	8/12/2012	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<0.20	<0.05	<2.5
	4/12/2013	---	---	---	---	---	---	< 0.20	< 0.050	< 2.5
	8/12/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/16/2014	---	---	---	---	---	---	< 0.20	< 0.050	< 2.5
	8/12/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/20/2015	---	---	---	---	---	---	< 0.20	< 0.050	< 2.5
	8/1/2015	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/20/2016	---	---	---	---	---	---	< 0.20	---	< 2.5
	8/19/2016	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/20/2017	---	---	---	---	---	---	< 0.20	< 0.050	< 2.5
	8/25/2017	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/18/2018	---	---	---	---	---	---	< 0.40	< 0.050	< 2.5
	8/6/2018	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.20	**0.024 J**	< 2.5
	4/3/2019	---	---	---	---	---	---	< 0.40	< 0.050	< 2.5
	8/21/2019	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.40	<0.050	< 2.5
	8/10/2020	---	---	---	---	---	---	<0.067	**0.010**	<0.60
	4/28/2021	---	---	---	---	---	---	**0.12**	< 0.050	<0.60
	8/16/2021	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.050	---
	4/13/2022	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	**0.098**	<0.050	<0.080
	8/4/2022	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	**0.036**	<0.050	<0.080
MW-13	8/7/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.34**	<0.05	<2.5
	8/23/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.05	<2.5
	4/1/2011	---	---	---	---	---	---	---	---	---
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	4/12/2012	---	---	---	---	---	---	<0.20	<0.050	<2.5
	8/12/2012	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<0.20	<0.05	<2.5
	4/12/2013	---	---	---	---	---	---	---	---	---
	8/12/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/16/2014	---	---	---	---	---	---	---	---	---
	8/12/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/20/2015	---	---	---	---	---	---	---	---	---

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TABLE 4B
CROSS-GRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		EPA RSL Tap Water THQ = 0.1						NMED Soil Screening Guidance Table 6-4		
Screening Levels		5.6	6.0	-	100	66	200	0.0167	0.0101	0.0858
MW-13	8/1/2015	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	**0.28**	< 0.050	< 2.5
	4/20/2016	---	---	---	---	---	---	---	---	---
	8/19/2016	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/20/2017	---	---	---	---	---	---	---	---	---
	8/25/2017	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.20	<0.050	<2.5
	4/18/2018	---	---	---	---	---	---	---	---	---
	8/6/2018	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.40	**0.033 J**	<2.5
	4/3/2019	---	---	---	---	---	---	---	---	---
	8/21/2019	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.40	<0.050	<2.5
	8/10/2020	---	---	---	---	---	---	**0.10**	<0.050	<0.60
	4/28/2021	---	---	---	---	---	---	---	---	---
	8/23/2021	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.050	---
	4/13/2022	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	---	---	---
	8/5/2022	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	**0.21**	<0.050	<0.080
MW-26	8/7/2009	< 5.0	< 5.0	<5	< 5.0	<5.0	<10	**2.4**	**4.3**	<2.5
	8/24/2010	**830**	< 10	< 10	< 10	**110**	**14**	<0.2	<0.05	<2.5
	8/16/2011	**830**	< 10	< 10	< 10	**110**	**15**	**1.3**	**4.0**	<2.5
	8/12/2012	**1100**	**280**	**33**	**46**	**110**	**31**	**1.7**	**12**	<2.5
	8/12/2013	---	---	---	---	---	---	---	---	---
	8/12/2014	---	---	---	---	---	---	---	---	---
	8/1/2015	---	---	---	---	---	---	---	---	---
	8/1/2016	---	---	---	---	---	---	---	---	---
	8/1/2017	---	---	---	---	---	---	---	---	---
	8/7/2018	---	---	---	---	---	---	---	---	---
	8/19/2019	---	---	---	---	---	---	---	---	---
	8/10/2020	---	---	---	---	---	---	---	---	---
	8/17/2021	<1.0	<1.0	<1.0	<3.0	**68**	**9.9**	**1.5**	**1.6**	---
	8/9/2022	<1.0	<1.0	**0.43 J**	**1.7 J**	**46**	**7.4**	**2.0**	**0.47 P**	<0.080
MW-27	8/7/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.47**	<0.05	<2.5
	8/24/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.05	<2.5
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.45**	<0.05	<2.5
	8/12/2012	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	**0.21**	< 2.5
	8/12/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/12/2014	< 2.0	< 2.0	< 2.0	< 6.0	< 2.0	< 2.0	**0.34**	< 0.050	< 2.5
	8/1/2015	< 2.0	< 2.0	< 2.0	< 6.0	< 2.0	< 2.0	**3.9**	**0.25**	< 2.5
	8/19/2016	< 2.0	< 2.0	< 2.0	< 6.0	< 2.0	< 2.0	**2.2**	**0.2**	< 2.5

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TABLE 4B
CROSS-GRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		EPA RSL Tap Water THQ = 0.1						NMED Soil Screening Guidance Table 6-4		
Screening Levels		5.6	6.0	-	100	66	200	0.0167	0.0101	0.0858
MW-27	8/29/2017	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	**3.2**	< 0.050	< 2.5
	8/7/2018	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	**3.2**	< 0.050	< 2.5
	8/22/2019	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	**0.23 J**	< 0.050	< 2.5
	8/10/2020	---	---	---	---	---	---	---	---	---
	8/23/2021	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.050	---
	8/9/2022	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	**0.25**	<0.050	**0.15**
MW-32	8/7/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.05	<2.5
	8/7/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.05	<2.5
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	8/12/2012	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	8/12/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/12/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/1/2015	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	**0.28**	**0.19**	< 2.5
	8/19/2016	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/29/2017	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/7/2018	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.40	< 0.050	< 2.5
	8/22/2019	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.40	< 0.050	< 2.5
	8/10/2020	---	---	---	---	---	---	<0.067	<0.050	<0.60
	8/23/2021	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.050	---
	8/23/2021	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.050	---
	8/9/2022	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	**0.048 J**	<0.050	**0.080 J**
MW-33	4/20/2015	---	---	---	---	---	---	<0.20	< 0.050	< 2.5
	8/1/2015	---	---	---	---	---	---	---	---	---
	4/22/2016	---	---	---	---	---	---	<0.20	< 0.050	< 2.5
	8/19/2016	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/20/2017	---	---	---	---	---	---	< 0.20	< 0.050	< 2.5
	8/29/2017	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/18/2018	---	---	---	---	---	---	---	---	---
	8/7/2018	---	---	---	---	---	---	---	---	---
	4/4/2019	---	---	---	---	---	---	---	---	---
	8/22/2019	---	---	---	---	---	---	---	---	---
	8/11/2020	---	---	---	---	---	---	<0.067	<0.050	<0.60
	4/28/2021	---	---	---	---	---	---	**0.12**	<0.050	<0.71
	8/23/2021	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.050	---
	4/12/2022	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	**0.061**	<0.050	<0.080
	8/4/2022	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	---	<0.050	---

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TABLE 4B
CROSS-GRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		**EPA RSL Tap Water THQ = 0.1**						**NMED Soil Screening Guidance Table 6-4**		
Screening Levels		**5.6**	**6.0**	**-**	**100**	**66**	**200**	**0.0167**	**0.0101**	**0.0858**

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

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TABLE 4C
CROSS-GRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)
Screening Source		Anions - NMAC 20.6.2									
Screening Levels		1.6	250	1.0	-	10	-	600	-	-	-
MW-1	8/7/2009	0.53	16	<0.10	0.30	0.69	<0.50	70	250	270	270
	8/7/2010	0.56	15	<0.10	0.12	1.40	<0.50	150	280	280	280
	4/1/2011	---	---	---	---	---	---	---	---	---	---
	8/16/2011	0.54	11	<0.10	0.10	0.99	<0.50	110	270	290	290
	4/12/2012	---	---	---	---	---	---	---	---	---	---
	8/12/2012	0.48	8.5	<0.10	<0.10	0.49	<0.50	76	250	270	270
	4/12/2013	---	---	---	---	---	---	---	---	---	---
	8/12/2013	0.56	12	< 0.10	< 0.10	1.0	< 0.50	99	240	270	270
	4/16/2014	---	---	---	---	---	---	---	---	---	---
	8/12/2014	0.49	14	< 0.10	0.12	0.43	< 0.50	110	270	300	300
	4/20/2015	---	---	---	---	---	---	---	---	---	---
	8/1/2015	0.51	11	< 0.10	< 0.10	0.54	< 0.50	110	230	246.5	246.5
	4/20/2016	---	---	---	---	---	---	---	---	---	---
	8/19/2016	0.45	11	< 1.0	< 0.10	< 1.0	< 0.50	84	240	266.4	266.4
	4/20/2017	---	---	---	---	---	---	---	---	---	---
	8/25/2017	0.32	15	< 1.0	0.12	0.78 J	< 0.50	110	280	301.8	301.8
	4/18/2018	---	---	---	---	---	---	---	---	---	---
	8/6/2018	0.32	15	< 1.0	0.12	0.78 J	< 0.50	110	320	355.9	355.9
	4/3/2019	---	---	---	---	---	---	---	---	---	---
	8/21/2019	<0.50	10	< 1.0	<0.50	<1.0	< 2.5 H	120	280 H	297.3	297.3
	8/10/2020	0.53	8.3	<0.070	<0.25	0.81	<1.2	85	250	266.5	266.5
	4/28/2021	---	---	---	---	---	---	---	---	---	---
	8/16/2021	---	---	---	---	---	---	---	---	---	---
	4/13/2022	---	---	---	---	---	---	---	---	---	---
	8/4/2022	0.36	7.4	0.022 J	0.066 J	0.94	<0.50	80	340	372.0	372.0
MW-13	8/7/2009	0.16	200	<2.0	2.60	5.80	<0.50	1000	840	890	890
	8/23/2010	0.11	230	<2.0	2.80	5.40	<0.50	1100	900	900	900
	4/1/2011	---	---	---	---	---	---	---	---	---	---
	8/16/2011	0.15	230	<2.0	2.70	5.80	<0.50	1100	880	940	940
	4/12/2012	---	---	---	---	---	---	---	---	---	---
	8/12/2012	< 0.10	190	< 2.0	1.7	4.0	< 0.50	1100	870	940	940
	4/12/2013	---	---	---	---	---	---	---	---	---	---
	8/12/2013	< 0.10	170	0.36	1.8	3.6	< 0.50	1200	870	950	950
	4/16/2014	---	---	---	---	---	---	---	---	---	---
	8/12/2014	< 0.10	160	0.36	2.7	2.9	< 0.50	1200	880	930	930
	4/20/2015	---	---	---	---	---	---	---	---	---	---
	8/1/2015	< 0.10	170	0.16	1.2	0.25	< 0.50	1100	890	909.4	909.4
	4/20/2016	---	---	---	---	---	---	---	---	---	---
	8/19/2016	< 0.10	230	1.8	3	1.8	< 0.50	850	950	954.3	954.3
	4/20/2017	---	---	---	---	---	---	---	---	---	---
	8/25/2017	< 0.10	240	2.7	2.9	2.7	< 0.50	860	950	958.8	958.8
	4/18/2018	---	---	---	---	---	---	---	---	---	---
	8/6/2018	< 0.10	230	3.5	2.9	3.5	< 0.50	920	890	954.5	954.5
	4/3/2019	---	---	---	---	---	---	---	---	---	---

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TABLE 4C
CROSS-GRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)
Screening Source		Anions - NMAC 20.6.2									
Screening Levels		1.6	250	1.0	-	10	-	600	-	-	-
MW-13	8/21/2019	<0.50	180	1.8	2.3	1.8	< 2.5 H	1100	860	875.1	875.1
	8/10/2020	<0.22	150	<0.070	2.0	2.4	<1.2	940	850	910.4	910.4
	4/28/2021	---	---	---	---	---	---	---	---	---	---
	8/23/2021	---	---	---	---	---	---	---	---	---	---
	4/13/2022	---	---	---	---	---	---	---	---	---	---
	8/5/2022	<0.50	160	---	2.1	---	<2.5	990	720	757.9	757.9
MW-26	8/7/2009	0.32	400	<2.0	5.20	<0.10	<0.50	<0.50	1100	1100	1100
	8/24/2010	0.34	320	<2.0	4.40	1.90	<0.50	0.99	1100	1100	1100
	8/16/2011	<0.50	300	<0.50	4.30	<0.50	<2.5	<2.5	1100	1200	1200
	8/12/2012	< 1.0	250	< 1.0	4.1	< 1.0	< 5.0	< 5.0	1100	1200	1200
	8/12/2013	---	---	---	---	---	---	---	---	---	---
	8/12/2014	---	---	---	---	---	---	---	---	---	---
	8/1/2015	---	---	---	---	---	---	---	---	---	---
	8/1/2016	---	---	---	---	---	---	---	---	---	---
	8/1/2017	---	---	---	---	---	---	---	---	---	---
	8/7/2018	---	---	---	---	---	---	---	---	---	---
	8/19/2019	---	---	---	---	---	---	---	---	---	---
	8/10/2020	---	---	---	---	---	---	---	---	---	---
	8/17/2021	---	---	---	---	---	---	---	---	---	---
	8/9/2022	0.29 J	210	<0.50	3.6	<0.50	<2.5	<2.5	1200	1283	1283
MW-27	8/7/2009	0.38	180	<2.0	1.30	<0.10	<0.5	960	280	290	290
	8/24/2010	0.39	240	<2.0	1.80	<0.1	<0.50	1000	290	290	290
	8/16/2011	0.4	380	<2.0	3.10	<0.1	<0.50	1500	380	410	410
	8/12/2012	0.14	480	< 2.0	4.3	< 0.10	< 10	1800	280	310	310
	8/12/2013	0.16	590	< 2.0	5.6	< 0.10	< 10	3200	190	200	200
	8/12/2014	0.19	690	< 2.0	6.2	< 0.10	< 10	3100	230	220	220
	8/1/2015	< 0.50	450	< 0.50	4.4	< 0.50	< 2.5	2200	490	527.8	527.8
	8/19/2016	< 0.50	360	< 1.0	3.2	< 1.0	< 10	2700	400	408.9	408.9
	8/29/2017	< 0.50	440	< 0.50	4.7	< 0.50	< 2.5	2800	380	395.6	395.6
	8/7/2018	<2.0	870	<1.0	8.4	<1.0	<10 H	3100	260	264	264
	8/22/2019	0.11 J	960	<1.0	9.5	<1.0	<2.5 H	2900	230 H	250.6	250.6
	8/10/2020	---	---	---	---	---	---	---	---	---	---
	8/23/2021	---	---	---	---	---	---	---	---	---	---
	8/9/2022	0.33 J	1300	<0.50	13	0.50 J	<2.5	2500	230 H	249.8	249.8
MW-32	8/7/2009	0.21	840	<2.0	7.90	37	<0.50	1500	150	170	170
	8/7/2010	0.2	900	<2.0	4.80	34	<0.50	1700	160	160	160
	8/16/2011	0.22	690	<2.0	4.60	48	<0.50	1600	170	180	180
	8/12/2012	<0.10	620	<2.0	4.10	43	<10	1500	160	180	180
	8/12/2013	0.16	600	< 2.0	4.5	41	< 10	1400	170	190	190
	8/12/2014	0.15	650	<0.10	4.9	39	< 10	1600	170	190	190
	8/1/2015	< 0.10	530	< 2.0	4.5	55	< 10	1400	180	201.7	201.7
	8/19/2016	< 0.10	630	40	4.4	40	< 10	1600	170	186.9	186.9
	8/29/2017	< 0.10	630	< 2.0	5.8	47	< 0.50	1600	170	188.4	188.4

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TABLE 4C
CROSS-GRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)
Screening Source		Anions - NMAC 20.6.2									
Screening Levels		1.6	250	1.0	-	10	-	600	-	-	-
MW-32	8/7/2018	< 0.10	680	43	4.3	43	<10 H	1600	170 H	180.7	180.7
	8/22/2019	< 0.50	740	37	4.4	37	<10 H	1800	160 H	178.6	178.6
	8/10/2020	0.24	810	16	4.4	16*	<1.2	1500	160	179.5	179.5
	8/23/2021	---	---	---	---	---	---	---	---	---	---
	8/23/2021	---	---	---	---	---	---	---	---	---	---
	8/9/2022	0.37 J	760	<0.50	3.9	2.5	<2.5	1900	140	156.1	156.1
MW-33	4/20/2015	---	---	---	---	---	---	---	---	---	---
	8/1/2015	---	---	---	---	---	---	---	---	---	---
	4/22/2016	---	---	---	---	---	---	---	---	---	---
	8/19/2016	0.51	250	40	1.4	40	< 10	2500	110	125.5	125.5
	4/20/2017	---	---	---	---	---	---	---	---	---	---
	8/29/2017	---	---	---	---	---	---	---	---	---	---
	4/18/2018	---	---	---	---	---	---	---	---	---	---
	8/7/2018	---	---	---	---	---	---	---	---	---	---
	4/4/2019	---	---	---	---	---	---	---	---	---	---
	8/22/2019	---	---	---	---	---	---	---	---	---	---
	8/11/2020	<0.22	210	24	1.1	24	<1.2	2100	120	128.4	128.4
	4/28/2021	---	---	---	---	---	---	---	---	---	---
	8/23/2021	---	---	---	---	---	---	---	---	---	---
	4/12/2022	---	---	---	---	---	---	---	---	---	---
	8/4/2022	0.14	190	<0.10	1.0	24	<10	1800	100 H	113.2	113.2

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

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TABLE 4D
CROSS-GRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)
Screening Source		Total Metals - NMAC 20.6.2								Dissolved Metals - NMAC 20.6.2			
Screening Levels		0.01	2.0	0.005	0.05	0.015	0.05	0.05	0.002	0.01	2.0	0.005	-
MW-1	8/7/2009	<0.02	0.18	---	<0.006	<0.005	<0.05	<0.005	<0.0002	<0.02	<0.02	<0.002	63
	8/7/2010	<0.02	0.099	---	<0.006	<0.005	<0.05	<0.005	<0.0002	<0.02	0.025	<0.002	77
	4/1/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/16/2011	<0.02	0.038	---	<0.006	<0.005	<0.05	<0.005	<0.0002	<0.001	0.026	<0.002	77
	4/12/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2012	<0.02	0.11	---	<0.006	<0.005	<0.05	<0.005	<0.0002	<0.001	0.025	<0.002	71
	4/12/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	< 0.020	0.078	---	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.0010	0.024	< 0.0020	70
	4/16/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2014	< 0.020	0.072	---	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	0.0011	0.027	< 0.0020	71
	4/20/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	< 0.020	0.031	---	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.031	< 0.0020	77
	4/20/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/19/2016	< 0.020	0.28	---	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.022	< 0.0020	65
	4/20/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/25/2017	< 0.020	0.061	---	< 0.0060	< 0.0050	< 0.050	< 0.0050	0.000067 J	0.0096 J	0.036	< 0.0020	83
	4/18/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/6/2018	< 0.020	0.13	---	< 0.0060	< 0.0050	< 0.050	< 0.0050	0.000083 J	<0.020	0.036	< 0.0020	90
	4/3/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/21/2019	< 0.020	0.070	---	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	<0.020	0.036	< 0.0020	86
	8/10/2020	0.0008	0.011	---	<0.0014	<0.0005	0.00088	0.0017	<0.00012	<0.0025	0.0098	<0.00037	75
	4/28/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/16/2021	<0.0010	0.046	---	<0.0060	<0.00050	<0.0010	<0.00050	<0.00020	<0.0010	0.046	<0.00050	100
	4/13/2022	---	---	---	---	---	---	---	---	---	---	---	---
	8/4/2022	0.00052 J	0.054	<0.0020	<0.0060	<0.00050	0.00079 J	0.0027 J	<0.00020	0.00061 J	0.052	<0.0020	110
MW-13	8/7/2009	<0.02	0.023	---	<0.006	0.005	<0.25	<0.005	<0.0002	<0.02	0.022	<0.002	240
	8/23/2010	<0.02	0.027	---	<0.006	<0.005	<0.05	<0.005	0.0002	<0.02	0.024	<0.002	270
	4/1/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/16/2011	<0.02	0.027	---	<0.006	<0.005	<0.05	<0.005	<0.001	0.0028	0.024	<0.002	300
	4/12/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2012	< 0.001	0.030	---	0.01	< 0.0050	< 0.050	< 0.005	< 0.0002	< 0.0021	0.025	< 0.0020	290
	4/12/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	< 0.020	0.026	---	0.026	< 0.0050	< 0.050	< 0.0050	< 0.00020	0.0025	0.024	< 0.0020	300
	4/16/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2014	< 0.020	0.023	---	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.022	< 0.0020	280
	4/20/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	< 0.020	0.022	---	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.023	< 0.0020	260
	4/20/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/19/2016	< 0.020	0.052	---	0.059	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.022	< 0.0020	230
	4/20/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/25/2017	< 0.020	0.025	---	0.0027 J	< 0.0050	< 0.050	< 0.0050	< 0.00020	0.013 J	0.024	< 0.0020	230
	4/18/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/6/2018	< 0.020	0.028	---	0.017	< 0.0050	< 0.050	0.0079	0.000074 J	< 0.020	0.022	< 0.0020	250
	4/3/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/21/2019	< 0.020	0.026	---	0.011	< 0.0050	< 0.050	<0.0050	<0.010	< 0.020	0.022	< 0.0020	270
	8/10/2020	<0.0025	0.011	---	<0.0014	<0.00050	0.0031	0.0024	<0.00012	<0.0025	0.019	<0.00037	250
	4/28/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/23/2021	<0.010	0.025	---	<0.0060	<0.0050	<0.010	<0.0050	<0.00020	<0.010	0.025	<0.0020	280

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TABLE 4D
CROSS-GRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)
MW-13	4/13/2022	---	---	---	---	---	---	---	---	---	---	---	---
	8/5/2022	0.00062 J	0.026	<0.0020	0.076	<0.00050	0.0017	<0.0050	<0.00020	<0.0050	0.022	<0.0020	230
MW-26	8/7/2009	<0.02	2.4	---	<0.006	0.008	<0.05	<0.005	<0.0002	<0.02	2.2	<0.002	120
	8/24/2010	<0.02	2.3	---	<0.006	<0.005	<0.05	<0.005	<0.0002	<0.02	2.1	<0.002	120
	8/16/2011	<0.02	2.3	---	<0.006	<0.005	<0.05	<0.005	<0.0002	0.009	2.3	<0.002	130
	8/12/2012	<0.02	2.4	---	< 0.006	< 0.005	< 0.05	< 0.005	< 0.0002	0.099	2.3	< 0.002	120
	8/12/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/19/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/10/2020	---	---	---	---	---	---	---	---	---	---	---	---
	8/17/2021	0.0023	2.0	---	<0.0060	<0.00050	<0.0010	<0.0050	<0.00020	0.0022	2.0	<0.0020	120
	8/9/2022	0.0019	2.1	<0.0020	<0.0060	0.00031 J	<0.0010	<0.0050	<0.00020	0.0023	2.0	<0.0020	130
MW-27	8/7/2009	<0.02	0.03	---	<0.006	0.007	<0.05	<0.005	<0.0002	<0.02	0.03	<0.0020	230
	8/24/2010	<0.02	0.084	---	<0.006	<0.005	<0.05	<0.005	<0.0002	<0.02	0.03	<0.0020	260
	8/16/2011	<0.02	0.088	---	<0.006	<0.005	<0.05	<0.005	<0.0002	0.0025	0.046	<0.0020	380
	8/12/2012	<0.02	0.091	---	<0.006	<0.005	<0.05	<0.005	<0.0002	0.0030	0.045	<0.0020	470
	8/12/2013	< 0.020	0.072	---	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	0.0038	0.057	< 0.0020	820
	8/12/2014	< 0.020	0.058	---	< 0.0060	<0.0050	< 0.050	<0.0050	< 0.00020	0.016	0.053	< 0.0020	700
	8/1/2015	< 0.020	0.068	---	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.054	< 0.0020	590
	8/19/2016	< 0.020	0.17	---	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.044	< 0.0020	550
	8/29/2017	< 0.20	0.073	---	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	0.023	0.034	< 0.0020	690
	8/7/2018	<0.020	0.066	---	< 0.0060	< 0.0050	< 0.050	0.022	< 0.00020	<0.020	0.050	< 0.0020	740
	8/22/2019	<0.020	0.059	---	< 0.0060	< 0.0050	< 0.050	0.0086	0.000055J	<0.020	0.045	< 0.0020	670
	8/10/2020	---	---	---	---	---	---	---	---	---	---	---	---
	8/23/2021	<0.010	0.055	---	<0.0060	<0.0050	<0.010	<0.0050	<0.00020	<0.010	0.060	<0.0020	760
	8/9/2022	0.00087 J	0.049	<0.0020	<0.0060	0.00012 J	0.0027	0.0088	<0.00020	0.0017	0.046	<0.0020	820
MW-32	8/7/2009	<0.02	0.033	---	<0.006	0.0074	<0.05	<0.005	<0.0002	<0.02	0.022	<0.002	330
	8/7/2010	<0.02	0.06	---	<0.006	<0.005	<0.05	<0.005	<0.0002	<0.02	0.022	<0.002	360
	8/16/2011	<0.0002	0.031	---	<0.006	<0.005	<0.05	<0.005	<0.0002	0.0044	0.019	<0.002	350
	8/12/2012	<0.020	0.029	---	<0.006	<0.005	<0.05	<0.005	<0.0002	0.0034	0.020	<0.002	340
	8/12/2013	< 0.020	0.023	---	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	0.0039	0.02	< 0.0020	310
	8/12/2014	< 0.020	0.034	---	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.017	< 0.0020	290
	8/1/2015	< 0.020	< 0.020	---	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	< 0.020	< 0.0020	310
	8/19/2016	< 0.020	0.033	---	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	< 0.020	< 0.0020	340
	8/29/2017	< 0.20	0.019	---	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	0.012 J	0.018 J	< 0.0020	340
	8/7/2018	< 0.020	<0.020	---	< 0.0060	< 0.0050	< 0.050	0.011	< 0.00020	< 0.020	< 0.020	< 0.0020	320
	8/22/2019	< 0.020	0.024	---	< 0.0060	< 0.0050	< 0.050	0.0045 J	0.000054J	< 0.020	0.018 J	< 0.0020	320
	8/10/2020	0.0011	0.0095	---	<0.0014	<0.0005	0.010	0.0032	<0.00012	<0.0025	0.01	<0.00037	330
	8/23/2021	<0.0050	0.015	---	<0.0060	<0.0025	0.0076	<0.0050	<0.00020	<0.0050	0.015	<0.0020	330
	8/23/2021	<0.010	0.015	---	<0.0060	<0.0050	<0.010	<0.0050	<0.00020	<0.0050	0.016	<0.0020	330
	8/9/2022	0.00085 J	0.016	<0.0020	<0.0060	0.000099 J	0.0040	0.0093	<0.00020	0.00089 J	0.015	<0.0020	390
MW-33	4/20/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	---	---	---	---	---	---	---	---	---	---	---	---
	4/22/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/19/2016	< 0.020	0.021	---	< 0.0060	< 0.0050	0.063	< 0.0050	< 0.00020	< 0.020	< 0.020	< 0.0020	480
	4/20/2017	---	---	---	---	---	---	---	---	---	---	---	---

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Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)
MW-33	8/29/2017	---	---	---	---	---	---	---	---	---	---	---	---
	4/18/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2018	---	---	---	---	---	---	---	---	---	---	---	---
	4/4/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/22/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/11/2020	<0.0005	**0.0089**	---	<0.0014	<0.0025	**0.041**	**0.0038**	<0.00012	<0.0025	**0.0090**	**0.00046**	**390**
	4/28/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/23/2021	<0.0050	**0.013**	---	<0.0060	<0.0025	**0.030**	<0.0050	<0.00020	<0.010	**0.0140**	<0.0020	**360**
	4/12/2022	---	---	---	---	---	---	---	---	---	---	---	---
	8/4/2022	<0.0050	**0.014**	<0.0020	<0.0060	<0.0025	**0.024**	**0.0076**	<0.00020	<0.0050	**0.014**	<0.0020	**350**

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

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TABLE 4E
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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
Screening Source		Dissolved Metals - NMAC 20.6.2											
Screening Levels		0.05	1.0	1.0	0.015	-	0.2	-	0.05	0.05	-	0.03	10.0
MW-1	8/7/2009	<0.006	<0.006	0.041	<0.005	16	0.031	2.6	<0.05	<0.005	85	0.002	<0.05
	8/7/2010	<0.006	<0.006	0.039	<0.005	20	0.027	2.3	<0.05	<0.005	77	0.0022	<0.05
	4/1/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/16/2011	<0.006	<0.006	0.023	<0.005	19	0.039	2.4	0.0014	<0.005	78	0.0029	0.057
	4/12/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2012	<0.006	<0.006	<0.020	<0.001	17	0.097	1.9	<0.001	<0.005	62	0.0026	0.029
	4/12/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	< 0.0060	< 0.0050	< 0.020	< 0.0010	16	0.074	2.1	< 0.0010	< 0.0050	67	0.0025	< 0.010
	4/16/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2014	< 0.0060	< 0.0060	0.053	< 0.0010	16	0.11	2.7	0.0015	< 0.0050	81	0.0027	< 0.010
	4/20/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	< 0.0060	< 0.0060	< 0.020	< 0.0050	17	0.037	2.2	< 0.050	< 0.0050	68	< 0.10	0.027
	4/20/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/19/2016	< 0.0060	< 0.0060	0.22	< 0.0050	16	0.2	2.8	< 0.050	< 0.0050	81	< 0.10	0.024
	4/20/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/25/2017	< 0.0060	< 0.0060	0.012 J	< 0.0050	19	0.016	2.4	< 0.050	< 0.0050	73	< 0.10	0.031
	4/18/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/6/2018	< 0.0060	< 0.0060	0.030	< 0.0050	19	0.037	1.9	< 0.050	0.0024	57	< 0.10	0.15
	4/3/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/21/2019	< 0.0060	< 0.0060	<0.020	0.0051	18	0.012	2.1	< 0.050	<0.0050	60	< 0.10	<0.020
	8/10/2020	<0.0012	<0.0025	<0.0080	<0.0005	18	0.0025	4.6	<0.0025	0.0019	52	0.00203	0.028
	4/28/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/16/2021	<0.0060	<0.0010	0.28	<0.00050	21	0.13	1.7	<0.0010	<0.0050	47	---	<0.010
	4/13/2022	---	---	---	---	---	---	---	---	---	---	---	---
	8/4/2022	<0.0060	0.00097 J	0.50	<0.00050	23	0.12	1.8	0.00047 J	0.0017 J	55	0.0031	0.0044
MW-13	8/7/2009	<0.006	<0.006	<0.02	<0.005	76	1.3	4	<0.05	<0.005	540	0.008	<0.05
	8/23/2010	<0.006	<0.006	<0.02	<0.005	94	1.4	4.3	<0.05	<0.005	600	0.0078	<0.05
	4/1/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/16/2011	<0.006	<0.006	<0.02	0.005	88	1.4	4.4	0.012	<0.005	600	0.01	0.068
	4/12/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2012	<0.0060	<0.006	< 0.02	< 0.0010	89	0.97	4.9	< 0.010	< 0.005	610	0.0087	0.066
	4/12/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	< 0.0060	< 0.010	< 0.020	< 0.0010	94	1.1	4.1	0.01	< 0.0050	600	0.0084	< 0.010
	4/16/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2014	< 0.0060	< 0.0060	< 0.020	< 0.0010	83	1.4	5.5	0.023	< 0.0050	600	0.0081	< 0.010
	4/20/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	< 0.0060	< 0.0060	< 0.020	< 0.0050	96	0.6	4.1	< 0.050	< 0.0050	570	< 0.10	0.027
	4/20/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/19/2016	< 0.0060	< 0.0060	0.044	< 0.0050	82	0.95	4	< 0.050	< 0.0050	540	< 0.10	< 0.020
	4/20/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/25/2017	< 0.0060	< 0.0060	< 0.020	< 0.0050	84	1.3	3.6	< 0.050	< 0.0050	530	< 0.10	0.017 J
	4/18/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/6/2018	< 0.0060	0.0027	< 0.020	< 0.0050	81	1.6	3.4	<0.25	0.0051	570	< 0.10	0.040
	4/3/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/21/2019	< 0.0060	< 0.0060	< 0.020	< 0.0050	96	1.5	3.8	<0.050	<0.0050	530	< 0.10	<0.020
	8/10/2020	<0.0012	0.0034	0.019	<0.0025	96	1.2	3.6	0.0026	0.0047	490	0.0051	0.025
	4/28/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/23/2021	<0.0060	<0.010	0.40	<0.0050	85	1.6	4.2	<0.010	<0.0050	540	---	<0.010
	8/5/2022	<0.0060	<0.0050	0.40	<0.0025	54	0.75	3.9	0.0020 J	0.0044 J	590	0.0065	0.0060 J
MW-26	8/7/2009	<0.006	<0.006	7.2	<0.005	41	2.9	3.7	<0.05	<0.005	460	<0.001	<0.05
	8/24/2010	<0.006	<0.006	6	<0.005	41	2.8	3.7	<0.05	<0.005	470	<0.001	<0.05
	8/16/2011	<0.006	<0.006	6	<0.005	45	2.7	3.9	0.014	<0.005	500	<0.001	0.072

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Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
Screening Source		Dissolved Metals - NMAC 20.6.2											
Screening Levels		0.05	1.0	1.0	0.015	-	0.2	-	0.05	0.05	-	0.03	10.0
MW-26	8/12/2012	< 0.006	<0.006	5.2	< 0.0010	43	2.6	4.1	<0.010	< 0.005	480	< 0.001	0.056
	8/12/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/19/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/10/2020	---	---	---	---	---	---	---	---	---	---	---	---
	8/17/2021	<0.0060	<0.0010	3.1	<0.00050	25	2.0	2.2	<0.0010	<0.0050	520	---	<0.010
	4/29/2022	---	---	---	---	---	---	---	---	---	---	---	---
	8/9/2022	<0.0060	0.00060	3.2	0.000079 J	40	2.1	3.5	<0.0010	0.0024 J	600	0.000080 J	0.0063 J
MW-27	8/7/2009	<0.006	<0.006	0.4	<0.0050	33	2.1	2.7	<0.05	<0.005	350	0.0014	<0.05
	8/24/2010	<0.006	<0.006	0.2	<0.0050	39	2.6	2.7	<0.05	<0.005	390	0.0021	<0.05
	8/16/2011	<0.006	<0.006	0.13	<0.0050	54	3	2.6	0.0095	<0.005	530	0.0015	0.053
	8/12/2012	<0.006	<0.006	0.35	<0.0050	68	0.95	3.4	<0.020	<0.005	630	0.0021	0.11
	8/12/2013	< 0.0060	< 0.020	0.19	< 0.0010	110	1.3	0.015	1.2	< 0.0050	900	0.0051	0.01
	8/12/2014	< 0.0060	< 0.0060	0.36	< 0.010	110	0.80	3.3	0.054	< 0.0050	910	<0.010	< 0.010
	8/1/2015	< 0.0060	< 0.0060	0.13	< 0.0050	93	6	5.8	< 0.050	< 0.0050	730	< 0.10	< 0.020
	8/19/2016	< 0.0060	< 0.0060	0.74	< 0.0050	92	2.7	5.3	< 0.050	< 0.0050	720	< 0.10	< 0.020
	8/29/2017	< 0.0060	< 0.0060	1.3	< 0.0050	99	2.1	4.0	< 0.050	< 0.0050	800	< 0.10	0.014 J
	8/7/2018	< 0.0060	< 0.0060	0.89	< 0.0050	110	0.75	3.7	< 0.050	0.018	890	< 0.10	<0.020
	8/22/2019	< 0.0060	< 0.0060	1.1	< 0.0050	110	1.8	6.0	< 0.050	0.0086	870	< 0.10	0.015 J
	8/10/2020	---	---	---	---	---	---	---	---	---	---	---	---
	8/23/2021	<0.0060	<0.010	<0.020	<0.0050	140	0.0071	3.1	<0.010	<0.0050	1200	---	0.025
	8/9/2022	<0.0060	0.0047	0.16	0.000070 J	140	0.026	4.4	0.0036	0.018	1200	0.061	0.0069 J
MW-32	8/7/2009	<0.006	<0.006	<0.02	<0.005	52	<0.002	4.8	<0.05	<0.005	780	0.01	<0.05
	8/7/2010	<0.006	<0.006	<0.02	<0.005	57	<0.002	4.4	<0.05	<0.005	910	0.0083	<0.05
	8/16/2011	<0.006	<0.006	<0.02	<0.005	50	<0.002	4.4	0.031	<0.005	790	0.013	0.099
	8/12/2012	<0.006	<0.006	<0.020	<0.0010	47	<0.0020	4.4	<0.050	<0.0050	790	0.012	0.12
	8/12/2013	< 0.0060	< 0.010	< 0.020	< 0.0010	45	< 0.0020	3.6	0.028	< 0.0050	700	0.014	< 0.010
	8/12/2014	< 0.0060	< 0.0060	< 0.020	< 0.0010	44	< 0.0020	5.9	0.057	< 0.0050	800	0.016	< 0.010
	8/1/2015	< 0.0060	< 0.0060	< 0.020	< 0.0050	45	< 0.0020	3.9	< 0.050	< 0.0050	750	< 0.10	0.023
	8/19/2016	< 0.0060	< 0.0060	< 0.020	< 0.0050	50	< 0.0020	4	< 0.050	< 0.0050	810	< 0.10	< 0.020
	8/29/2017	< 0.0060	< 0.0060	0.0052 J	< 0.0050	48	0.00085 J	3.6	< 0.050	0.0039 J	800	< 0.10	0.025
	8/7/2018	< 0.0060	< 0.0060	<0.020	< 0.0050	47	<0.0020	3.4	< 0.050	0.0082	770	< 10	< 0.020
	8/22/2019	< 0.0060	< 0.0060	<0.020	< 0.0050	50	<0.0020	3.7	< 0.050	0.0049 J	800	< 10	0.020
	8/10/2020	<0.0012	<0.0025	<0.0080	<0.0025	50	0.00031	3.8	0.010	0.0035	890	0.012	0.017
	8/23/2021	<0.0060	<0.0050	<0.020	<0.0025	51	<0.0020	4.1	0.0058	<0.0050	810	---	<0.010
	8/23/2021	<0.0060	<0.0050	<0.020	<0.0025	51	<0.0020	4.1	0.0088	<0.0050	850	---	<0.010
	8/9/2022	<0.0060	0.00053 J	<0.020	<0.00050	55	<0.0020	3.9	0.0029	0.0091	1000	0.011	0.0042 J
MW-33	4/20/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	---	---	---	---	---	---	---	---	---	---	---	---
	4/22/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/19/2016	< 0.0060	< 0.0060	< 0.020	< 0.0050	69	< 0.0020	5.5	0.097	< 0.0050	820	< 0.10	< 0.020
	4/20/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/29/2017	---	---	---	---	---	---	---	---	---	---	---	---
	4/18/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2018	---	---	---	---	---	---	---	---	---	---	---	---
	4/4/2019	---	---	---	---	---	---	---	---	---	---	---	---

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TABLE 4E
CROSS-GRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
Screening Source		**Dissolved Metals - NMAC 20.6.2**											
Screening Levels		**0.05**	**1.0**	**1.0**	**0.015**	**-**	**0.2**	**-**	**0.05**	**0.05**	**-**	**0.03**	**10.0**
MW-33	8/22/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/11/2020	<0.0012	<0.0025	<0.0080	<0.0025	**57**	**0.00066**	**5.2**	**0.041**	**0.0040**	**740**	**0.010**	**0.049**
	4/28/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/23/2021	<0.0060	<0.010	<0.020	<0.0050	**54**	<0.0020	**5.4**	**0.032**	<0.0050	**720**	---	<0.010
	4/12/2022	---	---	---	---	---	---	---	---	---	---	---	---
	8/4/2022	<0.0060	<0.0050	<0.020	<0.0050	**47**	<0.0020	**4.8**	**0.030**	**0.0065**	**720**	**0.0076**	**0.0084 J**

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

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TABLE 5A
DOWNGRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Acetone (µg/L)	Isopropylbenzene (µg/L)
Screening Source		**NMAC 20.6.2**					**NMED Soil Screening Guidance Table A-1 (Tap Water)**				
Screening Levels		**5**	**1000**	**700**	**620**	**100**	**11.4**	**35.1**	**1.17**	**14100**	**447**
MW-11	8/7/2008	3.8	< 1.0	**2.2**	< 1.5	**19**	< 10	**10**	**51**	< 10	**61**
	8/7/2009	**99**	< 1.0	**4.0**	< 2.0	**14**	< 10	**19**	**32**	< 10	**77**
	8/18/2010	1.4	< 1.0	**3.8**	< 2.0	**11**	---	---	---	< 1.0	**71**
	8/16/2011	**56**	<5.0	<5.0	<7.5	**0.012**	< 10	< 10	< 10	<50	**0.074**
	8/12/2012	< 5.0	< 5.0	< 5.0	< 7.5	**8**	---	---	---	< 50	**51**
	8/12/2013	< 5.0	< 5.0	< 5.0	< 7.5	**6.2**	**21**	**14**	**54**	< 50	**70**
	8/12/2014	< 5.0	< 5.0	< 5.0	< 7.5	< 5.0	**16**	< 10	**23**	< 50	**48**
	8/1/2015	**14**	< 1.0	**1**	< 1.5	**2**	---	---	---	< 10	**62**
	8/18/2016	**9.9**	< 1.0	< 1.0	< 1.5	**2.5**	**25**	**11**	**43**	**19**	**59**
	8/29/2017	**29**	< 1.0	**0.5 J**	< 1.5	**2.4**	---	---	---	< 10	**58**
	8/6/2018	**66**	< 1.0	**0.68 J**	< 1.5	**1.3**	<50	<50	**61**	< 10	**63**
	8/21/2019	**8**	< 1.0	<1.0	< 1.5	< 1.0	**34**	**24**	**85**	< 10	**81**
	8/7/2020	**2.5**	<0.40	<0.43	<1.1	<0.79	<7.0	<7.0	<7.9	---	---
	8/17/2021	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Could Not Sample - Wasp Nest In Well									
MW-12	8/7/2008	<1.0	< 1.0	< 1.0	< 1.5	<1.0	< 10	< 10	< 10	< 10	<1.0
	8/7/2009	<1.0	< 1.0	< 1.0	< 1.5	<1.0	< 10	< 10	< 10	< 10	<1.0
	8/7/2010	<1.0	< 1.0	< 1.0	< 1.5	<1.0	---	---	---	< 10	<1.0
	4/1/2011	---	---	---	---	---	---	---	---	---	---
	8/16/2011	<1.0	< 1.0	< 1.0	< 1.5	<1.0	< 10	< 10	< 10	< 10	<1.0
	4/4/2012	<1	<1	<1	<2	<1	---	---	---	---	---
	8/12/2012	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	< 10	< 1.0
	4/12/2013	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	---	---	---	---	---
	8/12/2013	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	< 10	< 10	< 10	< 1.0
	4/12/2014	< 1.0	< 1.0	< 1.0	<1.5	< 1.0	---	---	---	---	---
	8/12/2014	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	< 10	< 10	< 10	< 1.0
	4/20/2015	< 1.0	< 1.0	< 1.0	<1.5	< 1.0	---	---	---	---	---
	8/1/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	< 10	< 1.0
	4/20/2016	< 1.0	< 1.0	< 1.0	<1.5	< 1.0	---	---	---	---	---
	8/18/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	< 10	< 10	< 10	< 1.0
	4/20/2017	< 1.0	< 1.0	< 1.0	<1.5	< 1.0	---	---	---	---	---
	8/29/2017	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	< 10	< 1.0
	4/19/2018	< 1.0	< 1.0	< 1.0	<1.5	< 1.0	---	---	---	---	---
	8/7/2018	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	< 10	< 10	< 10	< 1.0
	4/4/2019	< 1.0	< 1.0	< 1.0	<1.5	< 1.0	---	---	---	---	---
	8/22/2019	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	< 10	< 10	< 10	< 1.0
	8/7/2020	<0.23	<0.20	<0.21	<0.55	<0.39	<2.5	<2.5	<2.9	---	---
	4/28/2021	<1.0	<1.0	<1.0	<1.5	<1.0	---	---	---	---	---
	8/17/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	4/12/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	8/4/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	**6.3 J**	<1.0

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TABLE 5A
DOWNGRADIENT WELLS ANALYTICAL SUMMARY
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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Acetone (µg/L)	Isopropylbenzene (µg/L)
Screening Source		NMAC 20.6.2					NMED Soil Screening Guidance Table A-1 (Tap Water)				
Screening Levels		5	1000	700	620	100	11.4	35.1	1.17	14100	447
MW-34	8/13/2008	**3.3**	<1.0	<1.0	**1.7**	**2.6**	<10	<10	<10	<10.0	**25**
	8/7/2009	**32**	<1.0	<1.0	<1.5	**4.1**	<10	<10	<10	<10.0	**23**
	8/18/2010	< 1.0	< 1.0	< 1.0	< 1.5	**2.1**	---	---	---	< 10	**19**
	8/16/2011	**20**	< 1.0	< 1.0	< 1.5	**3.1**	---	---	---	< 10	**20**
	8/12/2012	< 1.0	< 1.0	< 1.0	< 1.5	**2.3**	---	---	---	< 10	**7.6**
	8/12/2013	< 1.0	< 1.0	< 1.0	< 1.5	**1.3**	---	---	---	< 10	**2.5**
	8/12/2014	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	< 10	**13**
	8/1/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	< 10	**4.6**
	8/18/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	< 10	**2.6**
	8/29/2017	< 1.0	< 1.0	< 1.0	< 1.5	**0.48 J**	---	---	---	< 10	**3.8**
	8/6/2018	< 1.0	< 1.0	< 1.0	< 1.5	**0.57 J**	---	---	---	**8.0 J**	**3.8**
	8/21/2019	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	< 10	< 1.0
	8/10/2020	<0.23	<0.20	<0.21	<0.55	<0.39	---	---	---	---	---
	8/17/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	8/17/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	8/9/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	8/9/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
MW-35	8/13/2008	<2.0	<2.0	<2.0	<3.0	<2.0	<10	<10	<10	<20.0	<2.0
	8/7/2009	<1.0	< 1.0	< 1.0	< 1.5	**2.5**	<10	<10	<10	< 10	**6.8**
	8/18/2010	<1.0	< 1.0	< 1.0	< 1.5	**1.6**	---	---	---	< 10	**12**
	4/1/2011	<10	<10	<10	<20	<10	---	---	---	---	---
	8/16/2011	< 10	< 10	< 10	< 15	< 10	---	---	---	< 100	< 10
	4/4/2012	<10	<10	<10	<20	<10	---	---	---	---	---
	8/12/2012	< 1.0	< 1.0	< 1.0	< 1.5	**1.5**	---	---	---	**10**	**2.2**
	4/12/2013	< 1.0	< 1.0	< 1.0	<2.0	1	---	---	---	---	---
	8/12/2013	< 1.0	< 1.0	< 1.0	< 1.5	**1.4**	---	---	---	< 10	**2.2**
	4/12/2014	< 1.0	< 1.0	< 1.0	<1.5	**1.2**	---	---	---	---	---
	8/12/2014	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	< 10	**5.9**
	4/20/2015	< 1.0	< 1.0	< 1.0	<1.5	< 1.0	---	---	---	---	---
	8/1/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	< 10	**1.5**
	4/20/2016	< 1.0	< 1.0	< 1.0	<1.5	< 1.0	---	---	---	---	---
	8/18/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	< 10	**4.7**
	4/20/2017	< 1.0	< 1.0	< 1.0	<1.5	**0.0012**	---	---	---	---	---
	8/29/2017	< 1.0	< 1.0	< 1.0	< 1.5	**0.6 J**	---	---	---	< 10	**2.3**
	4/18/2018	< 1.0	< 1.0	< 1.0	<1.5	< 1.0	---	---	---	---	---
	8/7/2018	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	**11**	< 1.0
	4/3/2019	< 1.0	< 1.0	< 1.0	<1.5	< 1.0	---	---	---	---	---
	8/22/2019	< 1.0	< 1.0	< 1.0	< 1.5	**0.62 J**	---	---	---	**4.7 J**	< 1.0
	8/11/2020	<0.23	<0.20	<0.21	<0.55	<0.39	---	---	---	---	---
	4/28/2021	<1.0	<1.0	<1.0	<1.5	<1.0	---	---	---	---	---
	8/21/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	4/11/2022	Well Dry - Could Not Sample									

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TABLE 5A
DOWNGRADIENT WELLS ANALYTICAL SUMMARY
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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Acetone (µg/L)	Isopropylbenzene (µg/L)
Screening Source		NMAC 20.6.2					NMED Soil Screening Guidance Table A-1 (Tap Water)				
Screening Levels		**5**	**1000**	**700**	**620**	**100**	**11.4**	**35.1**	**1.17**	**14100**	**447**
MW-35	8/9/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	**11**	<1.0
MW-37	8/7/2008	<1.0	< 1.0	< 1.0	< 1.5	<1.0	< 10	< 10	< 10	< 10	<1.0
	8/7/2009	<1.0	< 1.0	< 1.0	< 1.5	<1.0	<10	<10	<10	< 10	<1.0
	8/18/2010	< 10	< 10	< 10	< 15	< 10	---	---	---	< 100	< 10
	4/1/2011	---	---	---	---	---	---	---	---	---	---
	8/16/2011	< 10	< 10	< 10	< 15	< 10	---	---	---	< 100	< 10
	4/4/2012	<10	<10	<10	<20	<10	---	---	---	---	---
	8/12/2012	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	---	---	---	< 20	< 2.0
	4/12/2013	< 1.0	< 1.0	< 1.0	<1.5	< 1.0	---	---	---	---	---
	8/12/2013	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	< 10	< 1.0
	4/12/2014	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/12/2014	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	< 10	< 1.0
	4/1/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/1/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	< 10	< 1.0
	4/1/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/18/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	< 10	< 1.0
	4/20/2017	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/30/2017	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	**1.0 J**	< 1.0
	4/19/2018	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/7/2018	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	< 10	< 1.0
	4/4/2019	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/22/2019	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	< 10	< 1.0
	8/11/2020	---	---	---	---	---	---	---	---	---	---
	4/28/2021	<1.0	<1.0	<1.0	<1.5	<1.0	---	---	---	---	---
	8/21/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	4/12/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	8/4/2022	<1.0	<1.0	<1.0	**0.16 J**	<1.0	<4.0	<4.0	<2.0	**5.3 J**	<1.0
MW-38	4/1/2015	<1.0	<1.0	<1.0	<1.5	< 1.0	---	---	---	---	---
	8/1/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	< 10	< 1.0
	4/1/2016	<1.0	<1.0	<1.0	<1.5	< 1.0	---	---	---	---	---
	8/18/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	< 10	< 10	< 10	< 1.0
	4/20/2017	<1.0	<1.0	<1.0	<1.5	< 1.0	---	---	---	---	---
	8/30/2017	< 1.0	< 1.0	< 1.0	< 1.5	**0.41 J**	---	---	---	**2.6 J**	< 1.0
	4/19/2018	<1.0	<1.0	<1.0	<1.5	< 1.0	---	---	---	---	---
	8/7/2018	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	< 10	< 10	**2.6 J**	< 1.0
	4/4/2019	<1.0	<1.0	<1.0	<1.5	< 1.0	---	---	---	---	---
	8/22/2019	< 1.0	< 1.0	< 1.0	< 1.5	**0.65 J**	< 10	< 10	< 10	**2.6 J**	< 1.0
	8/11/2020	<0.23	<0.20	<0.21	<0.55	<0.39	---	---	---	---	---
	4/28/2021	<1.0	<1.0	<1.0	<1.5	<1.0	---	---	---	---	---
	8/23/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	4/11/2022	Insufficient Water to Collect Sample									
	8/9/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	**6.4 J**	<1.0

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TABLE 5A
DOWNGRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Acetone (µg/L)	Isopropylbenzene (µg/L)
Screening Source		**NMAC 20.6.2**					**NMED Soil Screening Guidance Table A-1 (Tap Water)**				
Screening Levels		**5**	**1000**	**700**	**620**	**100**	**11.4**	**35.1**	**1.17**	**14100**	**447**

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

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TABLE 5B
DOWNGRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	1,2,4-Trimethylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		EPA RSL Tap Water THQ = 0.1						NMED Soil Screening Guidance Table 6-4		
Screening Levels		5.6	-	100	66	200	69	0.0167	0.0101	0.0858
MW-11	8/7/2008	860	5.2	3.1	60	12	2.7	9.6	3.4	<5.0
	8/7/2009	670	5.9	25	76	13	2.6	12	1.9	<5.0
	8/18/2010	630	8.3	3.3	73	13	2.9	2.0	2.2	<2.5
	8/16/2011	0.43	0.0054	<5.0	0.075	0.012	<5.0	0.83	1.7	<2.5
	8/12/2012	350	< 5.0	< 15	56	9	< 5.0	1.1	0.82	< 2.5
	8/12/2013	270	5.1	< 15	68	12	< 5.0	2.5	2.1	< 2.5
	8/12/2014	230	< 5.0	< 15	62	12	< 5.0	1.6	2.3	< 2.5
	8/1/2015	390	5	< 3.0	54	12	2.5	1.5	2.4	< 2.5
	8/18/2016	120	3.5	< 3.0	64	12	2.4	1.8	1.4	< 2.5
	8/29/2017	97	1.6	1.9 J	63	7.8	1.9	1.4	0.98	< 2.5
	8/6/2018	67	1.9	2.1 J	70	9.1	2	0.45	1.3	<2.5
	8/21/2019	110	3.0	3.3	86	13	2.5	0.52	2.4	<2.5
	8/7/2020	---	---	---	---	---	---	1.9	0.85	<0.60
	8/17/2021	---	---	---	---	---	---	---	---	---
	8/1/2022	Could Not Sample - Wasp Nest In Well								
MW-12	8/7/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.3	<0.05	<2.5
	8/7/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.005	<5.0
	8/7/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.05	<2.5
	4/1/2011	---	---	---	---	---	---	<0.20	<0.050	<2.5
	8/16/2011	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.05	<2.5
	4/4/2012	---	---	---	---	---	---	<0.2	<0.05	<2.5
	8/12/2012	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	4/12/2013	---	---	---	---	---	---	< 0.20	< 0.050	< 2.5
	8/12/2013	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/12/2014	---	---	---	---	---	---	< 0.20	< 0.050	< 2.5
	8/12/2014	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/20/2015	---	---	---	---	---	---	< 0.20	< 0.050	< 2.5
	8/1/2015	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/20/2016	---	---	---	---	---	---	< 0.20	< 0.050	< 2.5
	8/18/2016	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/20/2017	---	---	---	---	---	---	< 0.20	< 0.050	< 2.5
	8/29/2017	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/19/2018	---	---	---	---	---	---	<0.40	<0.050	< 2.5
	8/7/2018	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.40	< 0.050	< 2.5
	4/4/2019	---	---	---	---	---	---	<0.40	<0.050	< 2.5

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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	1,2,4-Trimethylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		EPA RSL Tap Water THQ = 0.1						NMED Soil Screening Guidance Table 6-4		
Screening Levels		5.6	-	100	66	200	69	0.0167	0.0101	0.0858
MW-12	8/22/2019	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.40	< 0.050	< 2.5
	8/7/2020	---	---	---	---	---	---	<0.067	0.010	<0.60
	4/28/2021	---	---	---	---	---	---	0.090	<0.050	<0.60
	8/17/2021	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.050	---
	4/12/2022	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.064	<0.050	<0.080
	8/4/2022	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.064	<0.050	<0.080
MW-34	8/13/2008	210	5.2	<1.0	20	9.7	2.4	3.9	1.4	<5.0
	8/7/2009	180	4.5	<1.0	17	8.5	2.4	9.5	0.74	<5.0
	8/18/2010	44	1.7	<1.0	11	6.5	2.1	1.0	0.7	<2.5
	8/16/2011	65	2.9	1.4	15	7.2	2.3	1.2	0.87	<2.5
	8/12/2012	6.1	< 1.0	< 3.0	7.2	4.7	1.9	0.91	0.71	< 2.5
	8/12/2013	< 1.0	< 1.0	< 3.0	1.4	1.6	2.0	1.8	1.1	< 2.5
	8/12/2014	51	3.1	< 3.0	<10	6.7	2.5	2.2	2.0	< 2.5
	8/1/2015	< 1.0	< 1.0	< 3.0	2.8	4.5	1.7	0.56	1.3	< 2.5
	8/18/2016	< 1.0	< 1.0	< 3.0	1.5	2.6	1.7	0.89	0.87	< 2.5
	8/29/2017	< 1.0	< 1.0	0.24 J	2.4	1.9	1.6	1.1	1.1	< 2.5
	8/6/2018	< 1.0	< 1.0	< 3.0	<1.0	0.40 J	1.7	0.4	1.2	< 2.5
	8/21/2019	< 1.0	< 1.0	< 3.0	<1.0	< 1.0	1.4	<0.40	<2.5	< 2.5
	8/10/2020	---	---	---	---	---	---	0.50	0.34	<0.60
	8/17/2021	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	0.26	---
	8/17/2021	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	0.26	---
	8/9/2022	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	0.37	0.17	<0.080
	8/9/2022	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	0.28	0.15	<0.080
MW-35	8/13/2008	100	<2.0	<2.0	<2.0	2.6	<2.0	0.74	0.53	<2.5
	8/7/2009	54	1.7	1.2	4.3	3.1	2.1	2.9	0.84	<5.0
	8/18/2010	180	3.8	1.4	7.4	4.3	2.5	0.52	0.58	<2.5
	4/1/2011	---	---	---	---	---	---	---	---	---
	8/16/2011	37	< 10	< 10	< 10	< 10	< 10	0.89	0.97	<2.5
	4/4/2012	---	---	---	---	---	---	---	---	---
	8/12/2012	48	1.8	< 3.0	1.4	1.2	1.4	0.44	0.35	<2.5
	4/12/2013	---	---	---	---	---	---	---	---	---
	8/12/2013	3.0	< 1.0	< 3.0	1.4	1.5	2.4	2.4	0.85	< 2.5
	4/12/2014	---	---	---	---	---	---	---	---	---
	8/12/2014	51	2.3	< 3.0	5.8	3.7	2.2	1.5	1.0	< 2.5
	4/20/2015	---	---	---	---	---	---	0.55	0.25	< 2.5

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TABLE 5B
DOWNGRADIENT WELLS ANALYTICAL SUMMARY
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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	1,2,4-Trimethylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		EPA RSL Tap Water THQ = 0.1						NMED Soil Screening Guidance Table 6-4		
Screening Levels		5.6	-	100	66	200	69	0.0167	0.0101	0.0858
MW-35	8/1/2015	**19**	**1.1**	< 3.0	< 1.0	**1.1**	< 1.0	**0.38**	**0.54**	< 2.5
	4/20/2016	---	---	---	---	---	---	**0.55**	**0.25**	< 2.5
	8/18/2016	**25**	**1.1**	< 3.0	**4.1**	**3.6**	**1.9**	**0.62**	**0.52**	< 2.5
	4/20/2017	---	---	---	---	---	---	**0.44**	**0.81**	< 2.5
	8/29/2017	**0.77 J**	< 1.0	**0.15 J**	**1.8**	**1.3**	**1.4**	**0.5**	**0.34**	< 2.5
	4/18/2018	---	---	---	---	---	---	---	---	---
	8/7/2018	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	<0.40	**0.30**	< 2.5
	4/3/2019	---	---	---	---	---	---	---	---	---
	8/22/2019	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	**1.4**	**0.26 J**	**0.35**	< 2.5
	8/11/2020	---	---	---	---	---	---	**0.95**	<0.050	<0.60
	4/28/2021	---	---	---	---	---	---	---	---	---
	8/21/2021	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	**0.24**	---
	4/11/2022	Well Dry - Could Not Sample								
	8/9/2022	<1.0	<1.0	<3.0	<1.0	<1.0	**0.73 J**	**0.30**	**0.20**	<0.080
MW-37	8/7/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.47**	**0.075**	<2.5
	8/7/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.33**	**0.79**	<2.5
	8/18/2010	< 10	< 10	< 10	< 10	< 10	< 10	**2.1**	<0.05	<5.0
	4/1/2011	---	---	---	---	---	---	<0.20	<0.05	<2.5
	8/16/2011	< 10	< 10	< 10	< 10	< 10	< 10	**0.35**	<0.05	<2.5
	4/4/2012	---	---	---	---	---	---	<0.20	<0.50	<2.5
	8/12/2012	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 0.2	<0.05	<2.5
	4/12/2013	---	---	---	---	---	---	< 0.2	<0.050	<2.5
	8/12/2013	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/12/2014	---	---	---	---	---	---	< 0.20	< 0.050	< 2.5
	8/12/2014	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	**0.55**	**0.074**	< 2.5
	4/1/2015	---	---	---	---	---	---	**0.45**	< 0.050	< 2.5
	8/1/2015	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/1/2016	---	---	---	---	---	---	< 0.20	< 0.050	< 2.5
	8/18/2016	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/20/2017	---	---	---	---	---	---	< 0.20	< 0.050	< 2.5
	8/30/2017	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	**0.14 J**	< 0.20	< 0.050	< 2.5
	4/19/2018	---	---	---	---	---	---	<0.40	<0.050	<2.5
	8/7/2018	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.40	< 0.050	< 2.5
	4/4/2019	---	---	---	---	---	---	<0.40	<0.050	<2.5
	8/22/2019	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	<0.40	< 0.050	< 2.5

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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	1,2,4-Trimethylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		**EPA RSL Tap Water THQ = 0.1**						**NMED Soil Screening Guidance Table 6-4**		
Screening Levels		**5.6**	**-**	**100**	**66**	**200**	**69**	**0.0167**	**0.0101**	**0.0858**
MW-37	8/11/2020	---	---	---	---	---	---	---	---	---
	4/28/2021	---	---	---	---	---	---	**0.13**	<0.050	<0.62
	8/21/2021	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.050	---
	4/12/2022	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	**0.13**	<0.050	<0.080
	8/4/2022	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	**0.073**	<0.050	<0.080
MW-38	4/1/2015	---	---	---	---	---	---	<0.20	<0.050	<2.5
	8/1/2015	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	4/1/2016	---	---	---	---	---	---	<0.20	<0.050	<2.5
	8/18/2016	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	**0.28**	< 0.050	< 2.5
	4/20/2017	---	---	---	---	---	---	<0.20	<0.050	<2.5
	8/30/2017	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	**0.48 J**	< 0.20	**0.047 J**	<2.5
	4/19/2018	---	---	---	---	---	---	<0.40	**0.058**	<2.5
	8/7/2018	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 0.40	**0.18**	< 2.5
	4/4/2019	---	---	---	---	---	---	**0.43**	<0.050	<2.5
	8/22/2019	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	**0.57 J**	< 0.40	<0.050	< 2.5
	8/11/2020	---	---	---	---	---	---	---	<0.050	---
	4/28/2021	---	---	---	---	---	---	<0.085	<0.050	<0.60
	8/23/2021	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.050	---
	4/11/2022	Insufficient Water to Collect Sample								
	8/9/2022	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	**0.19**	**0.012 J**	<0.080

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TABLE 5B
DOWNGRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	1,2,4-Trimethylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		**EPA RSL Tap Water THQ = 0.1**						**NMED Soil Screening Guidance Table 6-4**		
Screening Levels		**5.6**	**-**	**100**	**66**	**200**	**69**	**0.0167**	**0.0101**	**0.0858**

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

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TABLE 5C
DOWNGRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)
Screening Source		Anions - NMAC 20.6.2									
Screening Levels		1.6	250	1.0	-	10	-	600	-	-	-
MW-11	8/7/2008	0.57	110	<1.0	1.40	<0.10	<0.50	1.10	1100	1100	1100
	8/7/2009	0.38	330	<0.20	4.00	<0.10	<0.50	4	1100	980	980
	8/18/2010	<0.50	300	<0.50	3.90	<0.5	<2.5	5.30	970	970	970
	8/16/2011	0.59	340	<0.50	4.30	<0.5	<2.5	5.10	960	1000	1000
	8/12/2012	0.52	370	< 0.50	4.4	< 0.5	< 2.5	13	1000	1100	1100
	8/12/2013	0.84	300	< 0.50	3.9	< 0.50	< 2.5	4.6	1100	1100	1100
	8/12/2014	0.62	96	< 0.50	1.4	< 0.50	< 2.5	6.3	1100	1000	1000
	8/1/2015	0.35	78	< 0.10	0.15	0.15	< 0.50	5.7	1000	1038	1038
	8/18/2016	0.41	120	< 1.0	0.92	< 1.0	2.8	7.6	1000	1082	1082
	8/29/2017	0.37 J	210	< 0.50	3.2	< 0.50	< 2.5	1.3 J	1100	1140	1140
	8/6/2018	0.28 J	220	<1.0	3.5	<1.0	< 2.5	2.2 J	900	1006	1006
	8/21/2019	<0.50	240	<0.50	3.8	<0.50	< 2.5	6.9	970 H	1084	1084
	8/7/2020	0.38	250	0.11*	3.90	0.11	<1.2	21	980	1104	1104
	8/17/2021	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Could Not Sample - Wasp Nest In Well									
MW-12	8/7/2008	0.5	8	<0.10	<0.10	<0.10	<0.50	130	270	280	280
	8/7/2009	0.44	15	<0.10	0.25	<0.10	<0.50	600	300	320	320
	8/7/2010	0.55	6	<0.10	<0.10	0.22	<0.50	69	210	210	210
	4/1/2011	---	---	---	---	---	---	---	---	---	---
	8/16/2011	0.49	4	<0.10	<0.10	<0.10	<0.50	63	190	220	220
	4/4/2012	---	---	---	---	---	---	---	---	---	---
	8/12/2012	0.46	53	< 0.1	0.25	0.78	< 0.5	240	170	190	190
	4/12/2013	---	---	---	---	---	---	---	---	---	---
	8/12/2013	0.55	4.0	< 0.10	< 0.10	< 0.10	< 0.50	67	200	220	220
	4/12/2014	---	---	---	---	---	---	---	---	---	---
	8/12/2014	0.63	4.0	< 0.10	< 0.10	< 0.10	< 0.50	120	130	140	140
	4/20/2015	---	---	---	---	---	---	---	---	---	---
	8/1/2015	0.63	4	< 0.10	< 0.10	0.11	< 0.50	79	130	148.4	148.4
	4/20/2016	---	---	---	---	---	---	---	---	---	---
	8/18/2016	0.45	4.7	< 1.0	< 0.10	< 1.0	< 0.50	48	130	149	149
	4/20/2017	---	---	---	---	---	---	---	---	---	---
	8/29/2017	0.33	3.4	< 0.10	0.041 J	0.030 J	< 0.50	44	140	155.6	155.6
	4/19/2018	---	---	---	---	---	---	---	---	---	---
	8/7/2018	0.31	3.5	<1.0	<0.10	<1.0	< 0.50 H	45	140	155.4	155.4
	4/4/2019	---	---	---	---	---	---	---	---	---	---
	8/22/2019	0.34 J	5.7	0.08 J	<0.50	0.08 J	< 0.50 H	57	140	154.4	154.4
	8/7/2020	0.31	3.3	1.0*	<0.25	1.0	<1.2	47	130	143.4	143.4
	4/28/2021	---	---	---	---	---	---	---	---	---	---

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TABLE 5C
DOWNGRADIENT WELLS ANALYTICAL SUMMARY
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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)
Screening Source		Anions - NMAC 20.6.2									
Screening Levels		1.6	250	1.0	-	10	-	600	-	-	-
MW-12	8/17/2021	---	---	---	---	---	---	---	---	---	---
	4/12/2022	---	---	---	---	---	---	---	---	---	---
	8/4/2022	0.38	3.4	<0.10	<0.10	<0.10	<0.50	58	130 H	144.9	144.9
MW-34	8/13/2008	0.83	110	<0.10	1.30	<0.10	<0.50	9.90	740	750	750
	8/7/2009	0.61	180	<2.0	2.20	<0.10	<0.50	18	850	880	880
	8/18/2010	0.65	200	<2.0	2.10	1.20	<0.50	320	760	760	760
	8/16/2011	0.84	240	<0.50	2.80	<0.50	<2.5	22	840	910	910
	8/12/2012	0.92	270	< 0.50	2.9	< 0.50	< 2.5	83	980	1000	1000
	8/12/2013	1.1	230	< 0.50	2.9	< 0.50	< 2.5	9.1	950	1000	1000
	8/12/2014	0.70	180	< 0.50	2.3	< 0.50	< 2.5	14	870	900	900
	8/1/2015	0.56	190	< 0.10	0.7	0.27	< 0.50	23	820	876	876
	8/18/2016	0.38	260	< 1.0	2.2	< 1.0	< 2.5	340	930	979	979
	8/29/2017	0.54	240	< 0.50	3.5	< 0.50	< 2.5	3.6	1000	1088	1088
	8/6/2018	0.55	240	< 1.0	3.5	< 1.0	< 2.5	30	870 H	970	970
	8/21/2019	0.64	250	<0.50	3.4	<0.50	< 2.5	30	1100 H	1152	1152
	8/10/2020	<0.22	220	<0.70	2.90	0.13	<1.2	760	700	774.2	774.2
	8/17/2021	---	---	---	---	---	---	---	---	---	---
	8/17/2021	---	---	---	---	---	---	---	---	---	---
	8/9/2022	0.56	240	<0.50	3.4	<0.50	<2.5	650	760	821.3	821.3
	8/9/2022	0.57	240	<0.50	3.4	<0.50	<2.5	640	760	831.1	831.1
MW-35	8/13/2008	0.76	110	<0.1	1.30	<0.10	<0.50	3.6	830	870	870
	8/7/2009	0.64	98	*<1.0	1.10	*<1.0	<0.50	10.0	670	710	710
	8/18/2010	0.54	170	1	1.90	<0.50	<2.5	3.1	760	760	760
	4/1/2011	---	---	---	---	---	---	---	---	---	---
	8/16/2011	0.61	180	<0.50	2.10	<0.50	<2.5	3.50	760	820	820
	4/4/2012	---	---	---	---	---	---	---	---	---	---
	8/12/2012	0.77	240	< 0.5	3.0	< 0.5	< 2.5	11	850	900	900
	4/12/2013	---	---	---	---	---	---	---	---	---	---
	8/12/2013	1.1	260	< 0.50	3.3	< 0.50	< 2.5	< 2.5	950	1000	1000
	4/12/2014	---	---	---	---	---	---	---	---	---	---
	8/12/2014	0.76	130	< 0.50	1.7	< 0.50	< 2.5	9.4	900	950	950
	4/20/2015	---	---	---	---	---	---	---	---	---	---
	8/1/2015	0.55	180	< 0.10	0.74	0.25	< 0.50	11	790	845	845
	4/20/2016	---	---	---	---	---	---	---	---	---	---
	8/18/2016	0.47	240	< 1.0	2.2	< 1.0	< 0.50	14	850	905	905
	4/20/2017	---	---	---	---	---	---	---	---	---	---
	8/29/2017	0.46	220	< 0.10	0.71	0.022 J	< 0.50	1.5	830	905.4	905.4
	4/18/2018	---	---	---	---	---	---	---	---	---	---

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TABLE 5C
DOWNGRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)
Screening Source		Anions - NMAC 20.6.2									
Screening Levels		1.6	250	1.0	-	10	-	600	-	-	-
MW-35	8/7/2018	<0.50	210	<1.0	2.8	<1.0	<2.5 H	16	940 H	1004	1004
	4/3/2019	---	---	---	---	---	---	---	---	---	---
	8/22/2019	0.61	210	<1.0	2.9	<1.0	<2.5 H	91	920 H	1005	1005
	8/11/2020	0.6	330	<0.061*	4.40	<0.061*	<1.2	30	1100	1162	1162
	4/28/2021	---	---	---	---	---	---	---	---	---	---
	8/21/2021	---	---	---	---	---	---	---	---	---	---
	4/11/2022	Well Dry - Could Not Sample									
	8/9/2022	0.78	260	<0.50	3.6	<0.50	<2.5	460	790 H	847.8	847.8
MW-37	8/7/2008	0.79	230	<0.10	2.90	<0.10	<0.50	34	760	820	820
	8/7/2009	0.77	280	*<1.0	2.50	<1.0	<0.50	37	740	810	810
	8/18/2010	0.73	320	<2.0	3.40	0.40	<0.50	16	800	800	800
	4/1/2011	---	---	---	---	---	---	---	---	---	---
	8/16/2011	0.71	310	<2.0	3.50	7.30	<0.50	29.0	770	860	860
	4/4/2012	---	---	---	---	---	---	---	---	---	---
	8/12/2012	0.66	280	< 0.5	3.5	< 0.5	< 2.5	69	830	920	920
	4/12/2013	---	---	---	---	---	---	---	---	---	---
	8/12/2013	0.67	260	< 0.10	3	0.44	< 0.50	180	790	870	870
	4/12/2014	---	---	---	---	---	---	---	---	---	---
	8/12/2014	0.74	190	< 0.10	2.7	< 0.10	< 0.50	24	810	890	890
	4/1/2015	---	---	---	---	---	---	---	---	---	---
	8/1/2015	0.59	220	< 0.10	1.2	< 0.10	< 0.50	110	770	855.5	855.5
	4/1/2016	---	---	---	---	---	---	---	---	---	---
	8/18/2016	0.6	220	< 1.0	2.9	< 1.0	< 0.50	270	690	766.7	766.7
	4/20/2017	---	---	---	---	---	---	---	---	---	---
	8/30/2017	0.45	150	0.25 J	2.5	0.25 J	< 2.5	720	450	503.5	503.5
	4/19/2018	---	---	---	---	---	---	---	---	---	---
	8/7/2018	0.44	180	<1.0	2.6	<1.0	<0.50 H	420	640 H	703	703
	4/4/2019	---	---	---	---	---	---	---	---	---	---
	8/22/2019	0.51	220	0.18 J	3.0	0.18 J	<2.5 H	1200	520 H	572.6	572.6
	8/11/2020	---	---	---	---	---	---	---	---	---	---
	4/28/2021	---	---	---	---	---	---	---	---	---	---
	8/21/2021	---	---	---	---	---	---	---	---	---	---
	4/12/2022	Well Dry - Could Not Sample									
	8/4/2022	0.28	270	<0.10	3.8	0.072 J	<10	2100	300 H	331.0	331.0
MW-38	4/1/2015	---	---	---	---	---	---	---	---	---	---
	8/1/2015	0.84	30	< 0.10	0.38	< 0.10	< 0.50	30	310	345.6	345.6
	4/1/2016	---	---	---	---	---	---	---	---	---	---
	8/18/2016	0.64	75	< 1.0	0.98	< 1.0	< 0.50	4.6	450	497	497

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TABLE 5C
DOWNGRADIENT WELLS ANALYTICAL SUMMARY
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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)
Screening Source		**Anions - NMAC 20.6.2**									
Screening Levels		**1.6**	**250**	**1.0**	**-**	**10**	**-**	**600**	**-**	**-**	**-**
MW-38	4/20/2017	---	---	---	---	---	---	---	---	---	---
	8/30/2017	**0.53**	**100**	**0.17 J**	**1.4**	**0.17 J**	< 2.5	**3.4**	**530**	**587.7**	**587.7**
	4/19/2018	---	---	---	---	---	---	---	---	---	---
	8/7/2018	**0.4**	**140**	<1.0	**1.9**	<1.0	<0.50 H	**21**	**630 H**	**682.4**	**682.4**
	4/4/2019	---	---	---	---	---	---	---	---	---	---
	8/22/2019	**0.6**	**170**	**0.097 J**	**2.3**	**0.097 J**	<2.5 H	**13**	**620 H**	**686.8**	**686.8**
	8/11/2020	---	---	---	---	---	---	---	---	---	---
	4/28/2021	---	---	---	---	---	---	---	---	---	---
	8/23/2021	---	---	---	---	---	---	---	---	---	---
	4/11/2022	Insufficient Water to Collect Sample									
	8/9/2022	**0.55**	**130**	<0.50	**2.0**	<0.50	<2.5	**4.0**	**570 H**	**618.6**	**618.6**

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

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TABLE 5D
DOWNGRADIENT WELLS ANALYTICAL SUMMARY
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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Calcium (mg/L)	Chromium (mg/L)
Screening Source		Total Metals - NMAC 20.6.2								Dissolved Metals - NMAC 20.6.2			
Screening Levels		0.01	2.0	0.005	0.05	0.015	0.05	0.05	0.002	0.01	2.0	-	0.05
MW-11	8/7/2008	<0.02	0.7	<0.002	0.009	0.0074	<0.25	<0.005	<0.0002	<0.02	0.7	---	0.009
	8/7/2009	<0.02	0.92	<0.002	0.009	0.011	<0.050	<0.005	<0.0002	<0.02	0.87	120	<0.006
	8/18/2010	0.033	1.1	<0.002	<0.006	0.016	<0.05	<0.005	0.0002	<0.02	1.1	130	<0.006
	8/16/2011	<0.02	0.98	<0.002	<0.006	0.016	<0.05	<0.005	<0.0002	0.0061	0.85	140	<0.006
	8/12/2012	< 0.02	0.84	< 0.002	< 0.006	0.013	< 0.05	< 0.005	< 0.0002	0.015	0.93	140	< 0.0060
	8/12/2013	< 0.020	1.1	< 0.0020	< 0.0060	< 0.025	< 0.050	< 0.025	< 0.00020	0.02	1.1	130	< 0.0060
	8/12/2014	< 0.020	0.74	< 0.0020	< 0.0060	0.019	< 0.050	< 0.0050	< 0.00020	< 0.0050	0.64	73	< 0.0060
	8/1/2015	0.035	0.92	< 0.0020	< 0.0060	0.0075	< 0.050	< 0.0050	< 0.00020	< 0.020	0.85	96	< 0.0060
	8/18/2016	0.047	0.96	< 0.0020	< 0.0060	0.028	< 0.050	< 0.0050	< 0.00020	0.033	0.86	87	< 0.0060
	8/29/2017	0.026	0.75	< 0.0020	< 0.0060	< 0.0050	< 0.0050	< 0.050	< 0.00020	0.017 J	0.7	130	< 0.0060
	8/6/2018	<0.020	0.75	< 0.0020	< 0.0060	< 0.0050	< 0.050	0.0040 J	0.000087 J	0.021	0.74	120	< 0.0060
	8/21/2019	<0.020	0.99	< 0.0020	< 0.0060	0.014	< 0.050	<0.0050	< 0.00020	<0.020	0.97	130	< 0.0060
	8/7/2020	0.0019	0.70	<0.0009	<0.0014	0.0011	0.0011	0.0019	<0.00012	<0.0025	0.73	140	<0.0012
	8/17/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Could Not Sample - Wasp Nest In Well											
MW-12	8/7/2008	<0.02	0.06	<0.002	0.011	<0.005	<0.050	<0.005	<0.0002	<0.02	0.06	---	0.011
	8/7/2009	<0.02	0.17	<0.002	0.69	0.081	<0.050	<0.005	<0.0002	<0.02	0.066	100	0.013
	8/7/2010	0.021	0.21	<0.002	2.1	0.044	<0.05	<0.005	0.0002	<0.02	0.043	50	<0.006
	4/1/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/16/2011	<0.02	0.064	<0.002	0.38	0.018	<0.05	<0.005	<0.0002	<0.001	0.033	50	0.0064
	4/4/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2012	<0.02	0.090	<0.002	0.29	0.024	<0.05	<0.005	<0.0002	<0.001	0.035	50	0.0099
	4/12/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	< 0.020	0.071	< 0.0020	0.29	< 0.025	< 0.050	< 0.025	< 0.00020	< 0.0010	0.043	59	0.021
	4/12/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2014	< 0.020	0.19	< 0.0020	0.82	0.0096	< 0.050	< 0.0050	< 0.00020	0.0012	0.062	66	< 0.0060
	4/20/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	< 0.020	0.13	< 0.0020	0.34	0.0064	< 0.050	< 0.0050	< 0.00020	< 0.020	0.047	48	< 0.0060
	4/20/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/18/2016	< 0.020	0.36	< 0.0020	0.058	0.019	< 0.050	< 0.0050	< 0.00020	< 0.020	0.27	58	0.089
	4/20/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/29/2017	< 0.020	0.043	< 0.0020	0.015	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.044	46	< 0.0060
	4/19/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2018	< 0.020	0.064	< 0.0020	0.14	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.038	42	< 0.0060
	4/4/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/22/2019	< 0.020	0.071	< 0.0020	0.31	0.0069	< 0.050	< 0.0050	0.000079J	< 0.020	0.045	50	0.0036
	8/7/2020	0.0012	0.043	<0.0009	0.027	<0.0005	<0.0005	<0.0013	<0.00012	<0.0025	0.044	49	0.0032
	4/28/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/17/2021	0.0011	0.040	<0.00050	<0.0060	<0.00050	<0.0010	<0.00050	<0.00020	<0.0010	0.041	44	<0.0060
	4/12/2022	---	---	---	---	---	---	---	---	---	---	---	---
	8/4/2022	0.0010	0.056	<0.0020	0.060	0.00039 J	<0.0010	<0.0050	<0.00020	0.00073 J	0.051	50	0.0065
MW-34	8/13/2008	<0.02	0.57	<0.002	<0.006	<0.005	<0.25	<0.005	<0.0002	<0.02	0.57	---	<0.006
	8/7/2009	<0.02	0.71	<0.002	<0.006	0.0073	<0.050	<0.005	<0.0002	<0.02	0.65	99	<0.006
	8/18/2010	<0.02	0.38	<0.002	<0.006	<0.005	<0.05	<0.005	<0.0002	<0.02	0.52	78	<0.006
	8/16/2011	<0.02	0.76	<0.002	<0.006	<0.005	<0.05	<0.005	<0.0002	0.0041	0.71	120	<0.006
	8/12/2012	< 0.02	1.10	< 0.002	< 0.006	< 0.005	< 0.05	< 0.005	< 0.0002	0.01	1.2	140	< 0.0060
	8/12/2013	< 0.020	0.79	< 0.0020	< 0.0060	< 0.025	< 0.050	< 0.025	< 0.00020	0.0049	0.81	130	< 0.0060
	8/12/2014	< 0.020	0.39	< 0.0020	< 0.0060	0.0076	< 0.050	< 0.0050	< 0.00020	< 0.010	0.5	110	< 0.0060

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TABLE 5D
DOWNGRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Calcium (mg/L)	Chromium (mg/L)
Screening Source		Total Metals - NMAC 20.6.2								Dissolved Metals - NMAC 20.6.2			
Screening Levels		0.01	2.0	0.005	0.05	0.015	0.05	0.05	0.002	0.01	2.0	-	0.05
MW-34	8/1/2015	< 0.020	0.78	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.73	93	< 0.0060
	8/18/2016	< 0.020	0.56	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.4	150	< 0.0060
	8/29/2017	0.032	0.93	< 0.0020	< 0.0060	< 0.0050	< 0.0050	< 0.050	< 0.00020	< 0.020	0.91	120	< 0.0060
	8/6/2018	0.015	0.42	< 0.0020	< 0.0060	< 0.0050	< 0.050	0.0035 J	0.000092 J	< 0.020	0.38	120	< 0.0060
	8/21/2019	<0.020	0.17	< 0.0020	< 0.0060	0.0087	< 0.050	<0.0050	< 0.00020	0.027	0.14	140	< 0.0060
	8/10/2020	0.00072	0.047	<0.0009	<0.0014	<0.00050	<0.0025	0.0040	<0.00012	<0.0025	0.049	190	<0.0012
	8/17/2021	0.0022	0.079	<0.0020	<0.0060	0.00074	<0.0010	<0.0050	<0.00020	0.0018	0.072	130	<0.0060
	8/17/2021	0.0022	0.082	<0.0020	<0.0060	0.00073	<0.0010	<0.0050	<0.00020	0.0019	0.075	130	<0.0060
	8/9/2022	0.0017	0.051	<0.0020	<0.0060	0.00042 J	<0.0010	<0.0050	<0.00020	0.0020	0.048	160	<0.0060
	8/9/2022	0.0017	0.046	<0.0020	<0.0060	0.00028 J	<0.0010	<0.0050	<0.00020	0.0018	0.044	160	<0.0060
MW-35	8/13/2008	<0.02	0.65	<0.002	<0.006	<0.005	<0.25	<0.005	<0.0002	<0.02	0.65	---	<0.006
	8/7/2009	<0.02	0.54	<0.002	<0.006	0.011	<0.05	<0.005	<0.0002	<0.2	0.39	73	<0.006
	8/18/2010	0.075	0.99	<0.002	<0.006	0.0062	<0.05	<0.005	<0.0002	<0.10	0.75	95	<0.006
	4/1/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/16/2011	<0.02	0.92	<0.002	<0.006	0.008	<0.05	<0.005	<0.0002	0.0063	0.84	110	<0.006
	4/4/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2012	0.57	1.9	<0.002	<0.006	0.0072	<0.05	<0.005	<0.0002	0.043	1.7	130	<0.006
	4/12/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	< 0.020	1.1	< 0.0020	< 0.0060	< 0.025	< 0.050	< 0.025	< 0.00020	0.0096	0.93	140	< 0.0060
	4/12/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2014	< 0.020	0.75	< 0.0020	< 0.0060	0.0054	< 0.050	< 0.0050	< 0.00020	0.013	0.67	83	< 0.0060
	4/20/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	0.11	1.6	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	0.038	1.6	110	< 0.0060
	4/20/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/18/2016	0.047	1.3	< 0.0020	< 0.0060	0.0098	< 0.050	< 0.0050	< 0.00020	0.038	0.82	120	< 0.0060
	4/20/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/29/2017	0.076	0.92	< 0.0020	0.016	0.005 J	< 0.050	< 0.0050	0.000044 J	0.036	0.57	120	< 0.0060
	4/18/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2018	<0.020	0.94	< 0.0020	<0.0060	<0.0050	< 0.050	< 0.0050	<0.00020	< 0.020	0.79	120	< 0.0060
	4/3/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/22/2019	0.016 J	1.2	< 0.0020	0.0038 J	0.0042 J	< 0.050	0.00077	0.00012 J	0.037	1.1	140	< 0.0060
	8/11/2020	0.0043	0.52	<0.00090	<0.0014	0.00054	<0.0025	0.0018	<0.00012	0.0075	0.49	160	<0.0012
	4/28/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/21/2021	0.015	0.69	<0.0020	<0.0060	<0.0050	<0.0050	<0.0050	<0.00020	0.012	0.76	130	<0.0060
	4/11/2022	Well Dry - Could Not Sample											
	8/9/2022	0.0043	0.20	<0.0020	<0.0060	0.00060	<0.0010	<0.0050	<0.00020	0.0033	0.18	150	<0.0060
MW-37	8/7/2008	<0.02	0.43	<0.002	<0.006	<0.005	<0.25	<0.005	<0.0002	<0.02	0.43	---	<0.006
	8/7/2009	<0.02	0.7	<0.002	<0.006	0.0065	<0.25	<0.005	<0.0002	<0.02	0.43	82	<0.006
	8/18/2010	<0.02	0.9	<0.002	<0.006	<0.005	<0.05	<0.005	0.00056	<0.02	0.45	99	<0.006
	4/1/2011	---	---	---	---	---	---	---	---	---	---	---	---
	8/16/2011	<0.02	0.44	<0.002	0.0073	<0.005	<0.05	<0.005	<0.0002	0.0042	0.34	110	<0.006
	4/4/2012	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2012	<0.02	0.600	<0.002	< 0.006	< 0.005	<0.05	<0.005	<0.0002	0.0033	0.45	100	<0.006
	4/12/2013	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	< 0.020	0.71	< 0.0020	0.026	< 0.025	< 0.050	< 0.025	< 0.00020	0.0056	0.35	120	< 0.0060
	4/12/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/12/2014	< 0.020	0.31	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.010	0.20	44	< 0.0060
	4/1/2015	---	---	---	---	---	---	---	---	---	---	---	---

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TABLE 5D
DOWNGRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Calcium (mg/L)	Chromium (mg/L)
Screening Source		Total Metals - NMAC 20.6.2								Dissolved Metals - NMAC 20.6.2			
Screening Levels		0.01	2.0	0.005	0.05	0.015	0.05	0.05	0.002	0.01	2.0	-	0.05
MW-37	8/1/2015	< 0.020	**0.42**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.4**	**92**	< 0.0060
	4/1/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/18/2016	< 0.020	**0.27**	< 0.0020	< 0.0060	**0.0068**	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.22**	**86**	< 0.0060
	4/20/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/30/2017	**0.019 J**	**0.49**	< 0.0020	**0.022**	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.11**	**110**	< 0.0060
	4/19/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2018	<0.020	**0.10**	< 0.0020	<0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.079**	**120**	< 0.0060
	4/4/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/22/2019	<0.020	**0.17**	< 0.0020	**0.0040 J**	< 0.0050	< 0.050	**0.0024 J**	**0.00007 J**	< 0.020	**0.053**	**220**	< 0.0060
	8/11/2020	---	---	---	---	---	---	---	---	---	---	---	---
	4/28/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/21/2021	<0.010	**0.035**	<0.0020	<0.0060	<0.0050	<0.010	<0.0050	<0.00020	<0.0050	**0.031**	**270**	<0.0060
	4/12/2022	---	---	---	---	---	---	---	---	---	---	---	---
	8/4/2022	<0.0050	**0.041**	<0.0020	<0.0060	<0.0025	<0.0050	<0.0050	<0.00020	**0.00076 J**	**0.029**	**380**	<0.0060
MW-38	4/1/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	< 0.020	**0.16**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.16**	**37**	< 0.0060
	4/1/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/18/2016	< 0.020	**0.6**	< 0.0020	< 0.0060	**0.0093**	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.55**	**98**	< 0.0060
	4/20/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/30/2017	**0.015 J**	**0.69**	< 0.0020	**0.042**	< 0.0050	< 0.050	< 0.0050	**< 0.000039 J**	< 0.020	**0.43**	**100**	< 0.0060
	4/19/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/7/2018	<0.020	**0.57**	< 0.0020	<0.0060	< 0.0050	< 0.050	< 0.0050	<0.00020	< 0.020	**0.52**	**120**	< 0.0060
	4/4/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/22/2019	<0.020	**0.56**	< 0.0020	**0.0070**	< 0.0050	< 0.050	< 0.0050	**0.000044 J**	< 0.020	**0.55**	**130**	< 0.0060
	8/11/2020	---	---	---	---	---	---	---	---	---	---	---	---
	4/28/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/23/2021	<0.0050	**0.41**	<0.0020	<0.0060	<0.0025	<0.0010	<0.0050	<0.00020	<0.010	**0.43**	**130**	<0.0060
	4/11/2022	Insufficient Water to Collect Sample											
	8/9/2022	**0.0014**	**0.50**	<0.0020	<0.0060	**0.00018 J**	<0.0010	<0.0050	<0.00020	**0.0011**	**0.47**	**130**	<0.0060

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

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TABLE 5E
DOWNGRADIENT WELLS ANALYTICAL SUMMARY
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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
Screening Source		Dissolved Metals - NMAC 20.6.2										
Screening Levels		1.0	1.0	0.015	-	0.2	-	0.05	0.05	-	0.03	10.0
MW-11	8/7/2008	<0.006	12	0.007	---	1.9	---	<0.25	<0.005	---	<0.001	<0.05
	8/7/2009	<0.006	12	0.007	27	2.3	1.6	<0.05	<0.005	420	<0.001	<0.05
	8/18/2010	<0.006	14	0.0054	28	2.1	1.9	<0.05	<0.005	450	<0.001	<0.05
	8/16/2011	<0.006	12	<0.005	31	2.2	2.0	0.014	<0.005	460	<0.001	0.072
	8/12/2012	< 0.0060	9.3	0.0015	31	2.2	2.4	< 0.010	< 0.005	480	0.0017	0.16
	8/12/2013	< 0.020	11	0.0042	28	2.3	2.4	< 0.020	< 0.025	440	---	< 0.010
	8/12/2014	< 0.0060	8	0.0019	17	1.2	2.4	0.0090	< 0.0050	380	< 0.0010	< 0.010
	8/1/2015	< 0.0060	9.6	0.006	22	1.5	1.5	< 0.050	< 0.0050	390	< 0.10	< 0.020
	8/18/2016	0.015	18	0.027	21	1.8	2.8	< 0.050	< 0.0050	410	< 0.10	0.063
	8/29/2017	< 0.0060	4.2	< 0.0050	27	2.1	1.7	0.043 J	< 0.0050	440	< 0.10	0.093
	8/6/2018	< 0.0060	1.9	< 0.0050	27	2	1.8	<0.050	0.0031 J	440	< 0.10	<0.020
	8/21/2019	< 0.0060	6.5	0.0068	31	2.2	1.9	<0.050	<0.0050	490	< 0.10	<0.020
	8/7/2020	0.0056	7.6	<0.0025	33	2.0	2.0	<0.0025	0.0028	590	<0.0025	0.056
	8/17/2021	---	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Could Not Sample - Wasp Nest In Well										
MW-12	8/7/2008	<0.006	0.021	<0.005	---	0.065	---	<0.25	<0.005	---	0.003	0.095
	8/7/2009	<0.006	0.26	<0.005	21	0.34	<1.0	<0.05	<0.005	260	0.008	<0.05
	8/7/2010	<0.006	0.061	<0.005	8.9	0.15	<1.0	<0.05	<0.005	66	0.0012	<0.05
	4/1/2011	---	---	---	---	---	---	---	---	---	---	---
	8/16/2011	<0.006	0.095	<0.005	8.9	0.031	<1.0	0.0019	<0.005	62	0.0016	0.082
	4/4/2012	---	---	---	---	---	---	---	---	---	---	---
	8/12/2012	<0.006	0.069	< 0.001	8.2	0.016	< 1	< 0.001	< 0.005	47	< 0.001	0.066
	4/12/2013	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	< 0.020	0.54	0.0018	9.6	0.039	< 1.0	< 0.020	< 0.025	55	---	< 0.010
	4/12/2014	---	---	---	---	---	---	---	---	---	---	---
	8/12/2014	< 0.0060	0.046	< 0.0010	9.3	0.25	1.1	< 0.0010	< 0.0050	40	< 0.0010	< 0.010
	4/20/2015	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	< 0.0060	< 0.020	< 0.0050	6.9	0.03	< 1.0	< 0.050	< 0.0050	31	< 0.10	< 0.020
	4/20/2016	---	---	---	---	---	---	---	---	---	---	---
	8/18/2016	0.023	9.2	0.032	11	2.1	1.6	< 0.050	< 0.0050	32	< 0.10	0.1
	4/20/2017	---	---	---	---	---	---	---	---	---	---	---
	8/29/2017	< 0.0060	< 0.020	< 0.0050	6.9	0.0066	0.58 J	< 0.050	< 0.0050	30	< 0.10	0.047
	4/19/2018	---	---	---	---	---	---	---	---	---	---	---
	8/7/2018	< 0.0060	< 0.020	< 0.0050	6.5	0.0077	<1.0	< 0.050	< 0.0050	31	< 0.10	<0.020
	4/4/2019	---	---	---	---	---	---	---	---	---	---	---
	8/22/2019	< 0.0060	0.02	0.0054	7.3	0.0095	0.57	< 0.050	< 0.0050	29	< 0.10	0.017
	8/7/2020	<0.0025	0.0098	<0.0005	6.6	0.018	0.47	<0.0025	<0.0016	24	<0.0005	0.16
	4/28/2021	---	---	---	---	---	---	---	---	---	---	---
	8/17/2021	<0.0010	<0.020	<0.00050	6.1	0.020	<1.0	<0.0010	<0.0050	25	---	<0.010
	4/12/2022	---	---	---	---	---	---	---	---	---	---	---
	8/4/2022	0.00044 J	0.017 J	<0.00050	7.1	0.0082	0.42 J	<0.0010	<0.0050	25	0.00044 J	0.0093 J
MW-34	8/13/2008	<0.006	4.1	<0.005	---	3.1	---	<0.25	<0.005	---	<0.001	<0.05
	8/7/2009	<0.006	3.6	<0.005	19	3.6	1.3	<0.05	<0.005	350	<0.001	<0.05
	8/18/2010	<0.006	3.1	<0.005	15	3.2	1.2	<0.05	<0.005	320	<0.001	<0.05
	8/16/2011	<0.006	4	<0.005	23	4.4	1.5	0.0088	<0.005	390	<0.001	0.045

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TABLE 5E
DOWNGRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
Screening Source		Dissolved Metals - NMAC 20.6.2										
Screening Levels		1.0	1.0	0.015	-	0.2	-	0.05	0.05	-	0.03	10.0
MW-34	8/12/2012	< 0.0060	6	< 0.0010	26	5.6	1.9	< 0.010	< 0.0050	430	0.0011	0.074
	8/12/2013	< 0.020	3.2	< 0.0010	23	4.2	1.8	< 0.020	< 0.025	410	---	< 0.010
	8/12/2014	< 0.0060	1.5	< 0.0010	21	2.9	2.8	< 0.010	< 0.0050	420	< 0.0010	< 0.010
	8/1/2015	< 0.0060	2.8	0.005	16	3.2	1.3	< 0.050	< 0.0050	380	< 0.10	< 0.020
	8/18/2016	< 0.0060	4.5	< 0.0050	30	3.6	2.1	< 0.050	< 0.0050	490	< 0.10	< 0.020
	8/29/2017	< 0.0060	3.2	< 0.0050	20	3.7	1.1	< 0.050	< 0.0050	440	< 0.10	0.041
	8/6/2018	< 0.0060	3	< 0.0050	23	3.8	1.2	< 0.050	0.0027	440	< 0.10	0.046
	8/21/2019	< 0.0060	2.5	< 0.0050	23	3.6	1.3	< 0.050	<0.0050	490	< 0.10	<0.020
	8/10/2020	<0.0025	2.5	<0.0025	36	3.7	2.2	<0.0025	0.0040	530	<0.0025	0.027
	8/17/2021	<0.0010	2.4	<0.00050	22	3.2	1.4	<0.0010	<0.0050	520	---	<0.010
	8/17/2021	<0.0010	2.6	<0.00050	24	3.3	1.6	<0.0010	<0.0050	530	---	<0.010
	8/9/2022	<0.0010	3.6	<0.00050	28	5.3	1.3	0.00058 J	0.0030 J	640	0.0017	0.0061 J
	8/9/2022	0.00039 J	2.7	0.000069 J	27	5.1	1.2	0.00061 J	0.0032 J	660	0.0018	0.0041 J
MW-35	8/13/2008	<0.006	2.6	<0.005	---	1.4	---	<0.25	<0.005	---	<0.001	<0.05
	8/7/2009	<0.006	3.1	<0.005	13	1.6	2.3	<0.05	<0.005	270	<0.001	<0.05
	8/18/2010	<0.006	3.9	<0.005	17	2.7	2.6	<0.05	<0.005	330	<0.001	<0.05
	4/1/2011	---	---	---	---	---	---	---	---	---	---	---
	8/16/2011	<0.006	4.1	<0.005	19	2.5	2.8	0.0069	<0.005	340	<0.001	0.03
	4/4/2012	---	---	---	---	---	---	---	---	---	---	---
	8/12/2012	<0.006	3.6	< 0.001	23	3.10	3.6	< 0.01	<0.005	390	0.01	0.068
	4/12/2013	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	< 0.020	4.4	< 0.0010	25	3.1	3.2	< 0.020	< 0.025	390	---	< 0.010
	4/12/2014	---	---	---	---	---	---	---	---	---	---	---
	8/12/2014	< 0.0060	3.5	< 0.0010	16	2.1	3.5	0.015	< 0.0050	380	< 0.0010	< 0.010
	4/20/2015	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	< 0.0060	0.1	< 0.0050	21	2.4	2.5	< 0.050	< 0.0050	340	< 0.10	0.023
	4/20/2016	---	---	---	---	---	---	---	---	---	---	---
	8/18/2016	< 0.0060	3.4	< 0.0050	21	2.5	2.8	< 0.050	< 0.0050	380	< 0.10	< 0.020
	4/20/2017	---	---	---	---	---	---	---	---	---	---	---
	8/29/2017	< 0.0060	1.7	< 0.0050	21	1.8	2.9	< 0.050	< 0.0050	370	< 0.10	0.037
	4/18/2018	---	---	---	---	---	---	---	---	---	---	---
	8/7/2018	< 0.0060	0.13	< 0.0050	22	1.9	2.9	< 0.050	< 0.0050	380	< 0.10	<0.020
	4/3/2019	---	---	---	---	---	---	---	---	---	---	---
	8/22/2019	< 0.0060	1.9	0.0061	24	2.4	3.0	< 0.050	0.0017 J	400	< 0.10	0.021
	8/11/2020	<0.0025	1.8	<0.0025	31	2.1	3.4	<0.0025	0.0019	520	<0.0025	0.039
	4/28/2021	---	---	---	---	---	---	---	---	---	---	---
	8/21/2021	<0.0050	3.4	<0.0025	25	2.5	3.1	<0.0050	<0.0050	510	---	<0.010
	4/11/2022	Well Dry - Could Not Sample										
	8/9/2022	0.00037 J	1.1	<0.00050	26	3.2	2.9	0.00044 J	0.0030 J	590	0.0017	0.0057 J
MW-37	8/7/2008	<0.006	0.95	<0.005	---	1.2	---	<0.25	<0.005	---	<0.001	0.15
	8/7/2009	<0.006	1.1	<0.005	18	1.4	2.9	<0.05	<0.005	370	<0.001	<0.05
	8/18/2010	<0.006	1.9	<0.005	20	1.3	3.3	<0.05	<0.005	410	<0.001	<0.05
	4/1/2011	---	---	---	---	---	---	---	---	---	---	---
	8/16/2011	<0.006	2.6	<0.005	21	1.1	3.6	0.011	<0.005	440	0.0018	0.087
	4/4/2012	---	---	---	---	---	---	---	---	---	---	---

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TABLE 5E
DOWNGRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
Screening Source		Dissolved Metals - NMAC 20.6.2										
Screening Levels		1.0	1.0	0.015	-	0.2	-	0.05	0.05	-	0.03	10.0
MW-37	8/12/2012	<0.006	0.77	< 0.001	20	0.970	4	< 0.01	<0.005	450	0.003	0.042
	4/12/2013	---	---	---	---	---	---	---	---	---	---	---
	8/12/2013	< 0.020	< 0.0010	3.0	21	1.2	3.7	< 0.020	< 0.025	440	---	< 0.010
	4/12/2014	---	---	---	---	---	---	---	---	---	---	---
	8/12/2014	< 0.0060	0.38	< 0.0010	15	0.99	3.0	0.022	< 0.0050	460	0.0010	< 0.010
	4/1/2015	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	< 0.0060	< 0.020	< 0.0050	21	1	2.8	< 0.050	< 0.0050	420	< 0.10	< 0.020
	4/1/2016	---	---	---	---	---	---	---	---	---	---	---
	8/18/2016	< 0.0060	1.6	< 0.0050	19	0.96	2.9	< 0.050	< 0.0050	460	< 0.10	< 0.020
	4/20/2017	---	---	---	---	---	---	---	---	---	---	---
	8/30/2017	< 0.0060	0.13	< 0.0050	21	0.89	2.7	< 0.050	< 0.0050	460	< 0.10	0.018 J
	4/19/2018	---	---	---	---	---	---	---	---	---	---	---
	8/7/2018	< 0.0060	0.20	< 0.0050	21	1.1	2.7	< 0.050	< 0.0050	430	< 0.10	<0.020
	4/4/2019	---	---	---	---	---	---	---	---	---	---	---
	8/22/2019	0.0024 J	0.63	< 0.0050	41	2.0	3.6	< 0.050	0.0030 J	530	< 0.10	0.015 J
	8/11/2020	---	---	---	---	---	---	---	---	---	---	---
	4/28/2021	---	---	---	---	---	---	---	---	---	---	---
	8/21/2021	<0.0050	1.9	<0.0025	55	2.5	4.2	<0.0050	<0.0050	620	---	<0.010
	4/12/2022	---	---	---	---	---	---	---	---	---	---	---
	8/4/2022	<0.0050	0.11	<0.00050	62	3.2	4.5	<0.0050	0.0069	680	0.0026	0.0087 J
MW-38	4/1/2015	---	---	---	---	---	---	---	---	---	---	---
	8/1/2015	< 0.0060	0.032	< 0.0050	6	0.93	1.1	< 0.050	< 0.0050	130	< 0.10	0.022
	4/1/2016	---	---	---	---	---	---	---	---	---	---	---
	8/18/2016	0.033	13	0.014	16	3	2.8	< 0.050	< 0.0050	180	< 0.10	0.053
	4/20/2017	---	---	---	---	---	---	---	---	---	---	---
	8/30/2017	< 0.0060	0.16	< 0.0050	16	2.4	1.9	0.030 J	< 0.0050	190	< 0.10	0.034
	4/19/2018	---	---	---	---	---	---	---	---	---	---	---
	8/7/2018	< 0.0060	0.13	< 0.0050	20	2.7	2.2	<0.050	< 0.0050	210	< 0.10	<0.020
	4/4/2019	---	---	---	---	---	---	---	---	---	---	---
	8/22/2019	< 0.0060	0.18	< 0.0050	21	2.8	2.3	<0.050	0.0018 J	220	< 0.10	0.025
	8/11/2020	---	---	---	---	---	---	---	---	---	---	---
	4/28/2021	---	---	---	---	---	---	---	---	---	---	---
	8/23/2021	<0.010	0.54	<0.0050	21	3.4	2.1	<0.010	<0.0050	200	---	<0.010
	4/11/2022	Insufficient Water to Collect Sample										
	8/9/2022	<0.0010	1.2	<0.00050	21	2.3	1.9	<0.0010	0.0035 J	210	0.0020	0.0093 J

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TABLE 5E
DOWNGRADIENT WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
Screening Source		Dissolved Metals - NMAC 20.6.2										
Screening Levels		1.0	1.0	0.015	-	0.2	-	0.05	0.05	-	0.03	10.0

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

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TABLE 6A
RCRA WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Acetone (µg/L)	Isopropylbenzene (µg/L)
Screening Source		NMAC 20.6.2					NMED Soil Screening Guidance Table A-1 (Tap Water)				
Screening Levels		5	1000	700	620	100	11.4	35.1	1.17	14100	447
**MW-50	8/7/2010	**90**	**2.4**	**4.1**	< 1.5	< 1.0	< 4.0	< 4.0	**4.6**	< 10	< 1.0
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/15/2012	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 3.0	< 10	< 1.0
	8/15/2013	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/19/2014	---	---	---	---	---	---	---	---	---	---
	8/19/2015	---	---	---	---	---	---	---	---	---	---
	8/23/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/23/2020	---	---	---	---	---	---	---	---	---	---
MW-51	8/7/2010	**390**	**8.9**	**22**	**34**	< 1.0	< 4.0	< 4.0	**9**	< 10	**3.4**
	8/16/2011	**2.0**	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/15/2012	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 3.0	< 10	< 1.0
	8/15/2013	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/19/2014	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/19/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/23/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/23/2017	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	**1.6 J**	< 1.0
	8/3/2018	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/1/2019	---	---	---	---	---	---	---	---	---	---
	8/23/2020	---	---	---	---	---	---	---	---	---	---
	8/16/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	8/3/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	**7.8 J**	<1.0
MW-53	8/7/2010	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/15/2012	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 3.0	< 10	< 1.0
	8/15/2013	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/19/2014	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/19/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/24/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/23/2017	< 1.0	< 1.0	< 1.0	< 1.5	**0.63 J**	< 4.0	< 4.0	< 2.0	**3.2 J**	< 1.0
	8/3/2018	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/23/2019	< 1.0	< 1.0	< 1.0	< 1.5	**0.69 J**	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/7/2020	<0.23	< 0.20	< 0.21	< 0.55	< 0.39	---	---	---	---	---
	8/18/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	8/18/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	8/2/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	**4.8 J**	<1.0
**MW-54	8/20/2020	---	---	---	---	---	---	---	---	---	---
	8/2/2022	Sheen Observed - Could Not Sample									
**MW-55	8/7/2010	**11000**	**29**	**2600**	**1700**	**7000**	**140**	**240**	**660**	< 200	**180**
	8/1/2022	FPP - Could Not Sample									
MW-56	8/16/2011	**7800**	< 20	**2000**	**620**	**7800**	**120**	**190**	**520**	< 200	**160**
	8/23/2017	---	---	---	---	---	---	---	---	---	---

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TABLE 6A
RCRA WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Acetone (µg/L)	Isopropylbenzene (µg/L)
Screening Source		NMAC 20.6.2					NMED Soil Screening Guidance Table A-1 (Tap Water)				
Screening Levels		5	1000	700	620	100	11.4	35.1	1.17	14100	447
MW-56	8/1/2018	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---
	8/10/2020	15	0.26 J	4.6	0.63 J	110	---	---	---	---	---
	8/1/2022	FPP - Could Not Sample									
**MW-57	8/24/2016	2900	< 10	270	57	33	100	95	160	< 100	40
	8/23/2017	---	---	---	---	---	---	---	---	---	---
	8/1/2018	---	---	---	---	---	---	---	---	---	---
	8/20/2020	---	---	---	---	---	---	---	---	---	---
	8/1/2022	FPP - Could Not Sample									
**MW-58	8/7/2010	4500	<20	140	<30	15000	<20	240	120	< 200	110
	8/1/2022	Sheen Observed - Could Not Sample									
MW-59	8/1/2010	42	< 5.0	100	< 7.5	< 5.0	26	<20	51	< 50	15
	8/16/2011	38	< 1.0	260	< 1.5	330	37	< 4.0	69	< 10	32
	8/15/2012	4.2	< 1.0	29	< 1.5	140	< 4.0	< 4.0	8.8	< 10	4
	8/15/2013	13	< 1.0	89	< 1.5	530	5.7	< 4.0	15	< 10	13
	8/19/2014	13	< 1.0	58	< 1.5	750	< 4.0	< 4.0	3.6	< 10	7.8
	8/19/2015	7.3	< 1.0	29	< 1.5	1400	< 4.0	< 4.0	< 2.0	< 10	5
	8/22/2016	7.7	< 1.0	65	< 1.5	1200	< 4.0	< 4.0	2.8	< 10	12
	8/22/2017	24	< 1.0	40	< 1.5	1900	< 4.0	< 4.0	0.53 J	4.9 J	8.4
	8/3/2018	23	< 1.0	76	< 1.5	1400	---	---	---	---	---
	8/22/2019	7.5	< 1.0	64	< 1.5	830	< 4.0	< 4.0	< 2.0	< 10	14
	8/12/2020	0.52 J	<0.20	<0.21	<0.55	520	---	---	---	---	---
	8/24/2021	<1.0	<1.0	<1.0	<1.5	1600	<4.0	<4.0	<2.0	<10	<1.0
	8/3/2022	<1.0	<1.0	<1.0	<1.5	850	<4.0	<4.0	<2.0	<10	<1.0
**MW-60	8/1/2010	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/23/2017	0.30 J	< 1.0	0.14 J	< 1.5	< 1.0	0.51 J	0.32 J	< 2.0	< 10	< 1.0
	8/1/2018	---	---	---	---	---	---	---	---	---	---
	8/19/2019	---	---	---	---	---	---	---	---	---	---
	8/11/2020	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Insufficient Water to Collect Sample									
**MW-61	8/11/2020	8.3	4.0 J	320	1100	120	---	---	---	---	---
	8/24/2021	120	<1.0	18	<1.5	3100	24	<4.0	<2.0	<10	6.8
	8/1/2022	Well Could Not Be Accessed									
MW-62	8/1/2010	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/16/2012	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/15/2013	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/19/2014	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/19/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0

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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Acetone (µg/L)	Isopropylbenzene (µg/L)
Screening Source		NMAC 20.6.2					NMED Soil Screening Guidance Table A-1 (Tap Water)				
Screening Levels		5	1000	700	620	100	11.4	35.1	1.17	14100	447
MW-62	8/22/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/23/2017	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/8/2018	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/23/2019	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/12/2020	< 0.23	< 0.20	< 0.21	< 0.55	< 0.39	---	---	---	---	---
	8/23/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	8/4/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	**3.0 J**	<1.0
MW-63	8/1/2010	< 1.0	< 1.0	< 1.0	< 1.5	**110**	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.5	**11**	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/15/2012	< 1.0	< 1.0	< 1.0	< 1.5	**4.9**	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/15/2013	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/19/2014	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/19/2015	< 1.0	< 1.0	< 1.0	< 1.5	**4**	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/22/2016	< 1.0	< 1.0	< 1.0	< 1.5	**1.3**	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/22/2017	< 1.0	< 1.0	< 1.0	< 1.5	**0.97 J**	**0.35 J**	**0.37 J**	< 2.0	**2.7 J**	< 1.0
	8/8/2018	< 1.0	< 1.0	< 1.0	< 1.5	**2.9**	< 4.0	< 4.0	< 2.0	**12**	< 1.0
	8/22/2019	< 1.0	< 1.0	< 1.0	< 1.5	**3.8**	< 4.0	< 4.0	< 2.0	**8.0 J**	< 1.0
	8/11/2020	<0.23	<0.20	<0.21	<0.55	**6.3**	---	---	---	---	--
	8/24/2021	<1.0	<1.0	<1.0	<1.5	**1.5**	<4.0	<4.0	<2.0	<10	<1.0
	8/2/2022	<1.0	<1.0	<1.0	<1.5	**0.52 J**	<4.0	<4.0	<2.0	**6.6 J**	<1.0
MW-64	8/1/2010	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/16/2012	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/15/2013	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/19/2014	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/19/2015	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	< 8.0	< 8.0	< 4.0	< 20	< 2.0
	8/22/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/22/2017	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/8/2018	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/22/2019	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/12/2020	<0.23	<0.20	<0.21	<0.55	<0.39	---	---	---	---	---
	8/24/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	8/2/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	**8.4 J**	<1.0
MW-65	8/1/2010	**3600**	< 20	**2100**	**9900**	**960**	<200	<200	**550**	**2800**	**82**
	8/16/2011	**6300**	< 20	**2100**	**4400**	**1600**	**160**	**300**	**620**	**1400**	**85**
	8/15/2012	**7200**	< 20	**1700**	**590**	**790**	**130**	**210**	**400**	< 200	**79**
	8/15/2013	**6800**	< 20	**1700**	**330**	**950**	**120**	**190**	**430**	< 200	**75**
	8/19/2014	**5100**	< 10	**1400**	**280**	**480**	**110**	**50**	**240**	< 100	**84**
	8/19/2015	**7800**	< 20	**1900**	**150**	**1400**	**120**	< 80	**210**	< 200	**88**
	8/22/2016	**5700**	< 20	**1200**	**65**	**490**	**130**	< 80	**46**	< 200	**72**
	8/22/2017	**5800**	< 20	**1700**	**79**	**1900**	**150**	**6.8 J**	**27 J**	< 200	**86**

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Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Acetone (µg/L)	Isopropylbenzene (µg/L)
Screening Source		NMAC 20.6.2					NMED Soil Screening Guidance Table A-1 (Tap Water)				
Screening Levels		5	1000	700	620	100	11.4	35.1	1.17	14100	447
MW-65	8/8/2018	**4500**	**7.6 J**	**1800**	**580**	**4600**	**110**	**12 J**	**51**	**110**	**91**
	8/22/2019	---	---	---	---	---	---	---	---	---	---
	8/11/2020	**100**	<1.0	**58**	**110**	**1800**					
	8/16/2021	Well Destroyed									
**MW-66	8/11/2020	**130**	<2.0	**190**	**34**	<3.9	---	---	---	---	---
	8/1/2022	FPP - Could Not Sample									
MW-67	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/15/2012	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/15/2013	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/19/2014	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/19/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/19/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/23/2017	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 3.0	**2.9 J**	< 1.0
	8/3/2018	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/23/2019	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 3.0	<10	< 1.0
	8/10/2020	< 0.23	< 0.20	< 0.21	< 0.55	< 0.39	---	---	---	---	---
	8/20/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	8/4/2022	<1.0	<1.0	<1.0	<1.5	**1.2**	<4.0	<4.0	<2.0	**3.0 J**	<1.0
MW-68	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/15/2012	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/15/2013	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/19/2014	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/19/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/24/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/23/2017	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	**1.4 J**	< 1.0
	8/3/2018	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---	---
	8/23/2019	< 1.0	< 1.0	< 1.0	< 1.5	**0.47 J**	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/10/2020	<0.23	<0.20	<0.21	<0.55	<0.39	---	---	---	---	---
	8/19/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	8/3/2022	<1.0	<1.0	<1.0	<1.5	**0.52 J**	<4.0	<4.0	<2.0	**4.5 J**	<1.0
**MW-69	8/19/2020	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Well Dry - Could Not Sample									
MW-70	8/19/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/24/2016	---	---	---	---	---	---	---	---	---	---
	8/23/2017	< 1.0	< 1.0	< 1.0	< 1.5	**0.40 J**	< 4.0	< 4.0	< 2.0	**2.7 J**	< 1.0
	8/8/2018	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/23/2019	< 1.0	< 1.0	< 1.0	< 1.5	**0.54 J**	< 4.0	< 4.0	< 2.0	< 10	< 1.0
	8/12/2020	<0.23	<0.20	<0.21	<0.55	<0.39	---	---	---	---	---
	8/18/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0
	8/2/2022	Insufficient Water to Collect Sample									

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Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Acetone (µg/L)	Isopropylbenzene (µg/L)
Screening Source		**NMAC 20.6.2**					**NMED Soil Screening Guidance Table A-1 (Tap Water)**				
Screening Levels		**5**	**1000**	**700**	**620**	**100**	**11.4**	**35.1**	**1.17**	**14100**	**447**
MW-71	8/1/2022	FPP - Could Not Sample									
MW-72	8/1/2022	FPP - Could Not Sample									
MW-73	8/19/2021	**2900**	**3.6**	**70**	**5.9**	**59**	**43**	**57**	**160**	<10	**60**
	8/1/2022	**3700**	**3.2**	**120**	**6.3 J**	**53**	**59**	**76**	**180**	<50	**53**
MW-74	8/19/2021	**5100**	**13**	**420**	**540**	**290**	**68**	**88**	**170**	<100	**63**
	8/1/2022	Sheen Observed - Could Not Sample									
MW-75	8/18/2021	**2400**	**11**	**14**	**6.8**	**33**	**34**	**53**	**98**	<10	**46**
	8/18/2021	**2400**	**11**	**13**	**6.8**	**34**	**33**	**51**	**98**	<10	**45**
	8/1/2022	Sheen Observed - Could Not Sample									
MW-76	8/18/2021	**8.2**	<1.0	**3.7**	<1.5	**40**	**83**	**120**	**190**	<10	**51**
	8/1/2022	**5.9**	< 2.0	**4.7**	<3.0	**27**	**110**	**160**	**170**	**9.4 J**	**50**
MW-77	8/1/2022	FPP - Could Not Sample									
MW-78	8/3/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	**6.8 J**	<1.0
	8/3/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<10	<1.0

Notes:

Analytical result exceeds the respective screening level.

Field duplicate sample collected

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

FPP = Free Product Present

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TABLE 6B
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San Juan County, New Mexico

Sample Location	Sample Date	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		VOCs - EPA RSL Tap Water THQ = 0.1							NMED Soil Screening Guidance Table 6-4		
Screening Levels		5.6	6.0	-	100	66	200	69	0.0167	0.0101	0.0858
**MW-50	8/7/2010	**1.1**	**2.9**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	**0.48**	<2.5
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	8/15/2012	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	<0.2	< 0.05	< 2.5
	8/15/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/19/2014	---	---	---	---	---	---	---	---	---	---
	8/19/2015	---	---	---	---	---	---	---	---	---	---
	8/23/2016	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/23/2020	---	---	---	---	---	---	---	---	---	---
MW-51	8/7/2010	**36**	**14**	< 1.0	< 1.0	**2.4**	< 1.0	< 1.0	<0.2	**1.8**	<2.5
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	8/15/2012	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	<0.2	< 0.05	< 2.5
	8/15/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/19/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/19/2015	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/23/2016	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/23/2017	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/3/2018	---	---	---	---	---	---	---	< 0.40	< 0.050	< 2.5
	8/1/2019	---	---	---	---	---	---	---	---	---	---
	8/23/2020	---	---	---	---	---	---	---	---	---	---
	8/16/2021	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.050	---
	8/3/2022	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	**0.11**	<0.050	**0.10**
MW-53	8/7/2010	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	8/15/2012	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	8/15/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/19/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/19/2015	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/24/2016	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/23/2017	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/3/2018	---	---	---	---	---	---	---	< 0.40	< 0.050	< 2.5
	8/23/2019	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.40	< 0.050	< 2.5
	8/7/2020	---	---	---	---	---	---	---	<0.067	**0.012 J**	<0.60
	8/18/2021	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.050	---
	8/18/2021	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.050	---
	8/2/2022	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	**0.10**	<0.050	<0.080
**MW-54	8/20/2020	---	---	---	---	---	---	---	---	---	---
	8/2/2022	Sheen Observed - Could Not Sample									
**MW-55	8/7/2010	**1100**	**350**	**30**	**62**	**490**	**29**	< 20	**13**	**59**	<2.5
	8/1/2022	FPP - Could Not Sample									
MW-56	8/16/2011	**420**	**110**	**20**	**30**	**390**	**27**	< 20	**5.5**	**40.0**	<2.5
	8/23/2017	---	---	---	---	---	---	---	---	---	---
	8/1/2018	---	---	---	---	---	---	---	---	---	---

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TABLE 6B
RCRA WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		VOCs - EPA RSL Tap Water THQ = 0.1							NMED Soil Screening Guidance Table 6-4		
Screening Levels		5.6	6.0	-	100	66	200	69	0.0167	0.0101	0.0858
MW-56	8/20/2019	---	---	---	---	---	---	---	---	---	---
	8/10/2020	---	---	---	---	---	---	---	1.6	0.92	<0.60
	8/1/2022	FPP - Could Not Sample									
**MW-57	8/24/2016	37	16	< 10	< 30	53	< 10	< 10	17	520	< 250
	8/23/2017	---	---	---	---	---	---	---	---	---	---
	8/1/2018	---	---	---	---	---	---	---	---	---	---
	8/20/2020	---	---	---	---	---	---	---	---	---	---
	8/1/2022	FPP - Could Not Sample									
**MW-58	8/7/2010	<20	<20	<20	<20	110	<20	< 20	6.6	29	<2.5
	8/1/2022	Sheen Observed - Could Not Sample									
MW-59	8/1/2010	< 5.0	< 5.0	< 5.0	8.3	12	6.4	< 5.0	0.61	1.3	<2.5
	8/16/2011	< 1.0	< 1.0	< 1.0	11	32	9.4	< 1.0	0.84	1.6	<2.5
	8/15/2012	< 1.0	< 1.0	< 1.0	< 3.0	3.8	1.5	< 1.0	0.55	1.2	< 2.5
	8/15/2013	< 1.0	< 1.0	< 1.0	3.1	9.8	5.2	< 1.0	0.68	0.96	< 2.5
	8/19/2014	< 1.0	< 1.0	< 1.0	< 3.0	7.3	3.8	< 1.0	0.62	0.72	<2.5
	8/19/2015	< 1.0	< 1.0	< 1.0	< 3.0	4.4	4.5	< 1.0	0.32	1.1	< 2.5
	8/22/2016	< 1.0	< 1.0	1.5	< 3.0	12	5.4	< 1.0	0.85	1.8	< 2.5
	8/22/2017	0.35 J	< 1.0	0.84 J	2.3 J	7.8	4.9	0.56 J	0.75	1.0	< 2.5
	8/3/2018	---	---	---	---	---	---	---	<0.40	2.3	< 2.5
	8/22/2019	<1.0	< 1.0	0.53 J	2.8 J	21	4.7	0.46 J	0.31 J	1.2	< 2.5
	8/12/2020	---	---	---	---	---	---	---	0.27	<0.050	<0.60
	8/24/2021	<1.0	<1.0	<1.0	<3.0	<1.0	3.9	<1.0	<1.0	0.060	---
	8/3/2022	<1.0	<1.0	<1.0	<3.0	<1.0	3.4	<1.0	0.50	0.85	<0.080
**MW-60	8/1/2010	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	0.43	<2.5
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	8/23/2017	0.24 J	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/1/2018	---	---	---	---	---	---	---	---	---	---
	8/19/2019	---	---	---	---	---	---	---	---	---	---
	8/11/2020	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Insufficient Water to Collect Sample									
**MW-61	8/11/2020	---	---	---	---	---	---	---	6.2	8.5	<0.60
	8/24/2021	1.9	<1.0	1.2	<3.0	5.6	3.3	<1.0	<1.0	0.89	---
	8/1/2022	Well Could Not Be Accessed									
MW-62	8/1/2010	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.050	<2.5
	8/16/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	8/15/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/19/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.2	< 0.050	< 2.5
	8/19/2015	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/22/2016	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/23/2017	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/8/2018	0.28 J	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.40	0.023 J	< 2.5

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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		VOCs - EPA RSL Tap Water THQ = 0.1							NMED Soil Screening Guidance Table 6-4		
Screening Levels		5.6	6.0	-	100	66	200	69	0.0167	0.0101	0.0858
MW-62	8/23/2019	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.40	<0.050	< 2.5
	8/12/2020	---	---	---	---	---	---	---	<0.067	<0.050	<0.60
	8/23/2021	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.050	---
	8/4/2022	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	**0.020 J**	<0.050	<0.080
MW-63	8/1/2010	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	**0.13**	<2.5
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	8/15/2012	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	8/15/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	**0.71**	< 0.050	< 2.5
	8/19/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/19/2015	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/22/2016	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/22/2017	**0.13 J**	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/8/2018	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	**0.034**	< 2.5
	8/22/2019	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.40	<0.050	< 2.5
	8/11/2020	---	---	---	---	---	---	---	<0.067	<0.050	<0.60
	8/24/2021	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.050	---
	8/2/2022	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	---	<0.050	---
MW-64	8/1/2010	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	8/16/2012	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	8/15/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/19/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/19/2015	< 2.0	< 2.0	< 2.0	< 6.0	< 2.0	< 2.0	< 2.0	< 0.20	< 0.10	< 2.5
	8/22/2016	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/22/2017	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/8/2018	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.40	**0.024**	< 2.5
	8/22/2019	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.40	<0.050	< 2.5
	8/12/2020	---	---	---	---	---	---	---	<0.067	<0.050	<0.60
	8/24/2021	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.050	---
	8/2/2022	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	**0.074**	<0.050	<0.080
MW-65	8/1/2010	**2000**	**260**	< 20	< 20	**250**	< 20	< 20	**9.8**	**40**	<2.5
	8/16/2011	**1900**	**280**	< 20	< 20	**260**	< 20	< 20	**9.8**	**40.0**	<2.5
	8/15/2012	**1500**	**90**	< 20	< 60	**230**	< 20	< 20	**2.3**	**22**	<2.5
	8/15/2013	**1800**	**36**	< 20	< 60	**200**	< 20	< 20	**5.2**	**26**	< 2.5
	8/19/2014	**1400**	**17**	< 10	< 30	**190**	**12**	< 10	**7.4**	**21**	< 2.5
	8/19/2015	**860**	< 20	< 20	< 60	**250**	< 20	< 20	**7.7**	**19**	< 2.5
	8/22/2016	**480**	< 20	< 20	< 60	**220**	< 20	< 20	**4.8**	**20**	< 2.5
	8/22/2017	**520**	**3.8 J**	**11 J**	**6.4 J**	**270**	**16 J**	< 20	**4.4**	**23**	< 2.5
	8/8/2018	**590**	**41**	**12**	**10 J**	**300**	**18**	< 10	**2.8**	**29**	< 2.5
	8/22/2019	---	---	---	---	---	---	---	---	---	---
	8/11/2020								**5.0**	**2.1**	<0.60
	8/16/2021	Well Destroyed									

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San Juan County, New Mexico

Sample Location	Sample Date	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		VOCs - EPA RSL Tap Water THQ = 0.1							NMED Soil Screening Guidance Table 6-4		
Screening Levels		5.6	6.0	-	100	66	200	69	0.0167	0.0101	0.0858
**MW-66	8/11/2020	---	---	---	---	---	---	---	3.2	1.5	<0.60
	8/1/2022	FPP - Could Not Sample									
MW-67	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26	<0.05	<2.5
	8/15/2012	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 0.2	0.053	<2.5
	8/15/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/19/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	0.64	< 0.050	< 2.5
	8/19/2015	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	0.21	< 0.050	< 2.5
	8/19/2016	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	0.64	< 0.050	< 2.5
	8/23/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/3/2018	---	---	---	---	---	---	---	< 0.40	< 0.050	< 2.5
	8/23/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 0.40	< 0.050	< 2.5
	8/10/2020	---	---	---	---	---	---	---	0.24	0.0092	<0.60
	8/20/2021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.050	---
	8/4/2022	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	0.78	<0.050	0.11
MW-68	8/16/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	8/15/2012	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	<0.20	<0.05	<2.5
	8/15/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/19/2014	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/19/2015	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/24/2016	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/23/2017	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	<2.5
	8/3/2018	---	---	---	---	---	---	---	< 0.40	< 0.050	<2.5
	8/23/2019	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.40	< 0.050	<2.5
	8/10/2020	---	---	---	---	---	---	---	<0.067	0.0098 J	<0.60
	8/19/2021	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.050	---
	8/3/2022	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	0.022 J	<0.050	<0.080
**MW-69	8/19/2020	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Well Dry - Could Not Sample									
MW-70	8/19/2015	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/24/2016	---	---	---	---	---	---	---	---	---	---
	8/23/2017	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.050	< 2.5
	8/8/2018	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.40	0.034 J	< 2.5
	8/23/2019	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 0.40	<0.050	< 2.5
	8/12/2020	---	---	---	---	---	---	---	<0.067	<0.050	<0.60
	8/18/2021	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<0.050	---
	8/2/2022	Insufficient Water to Collect Sample									
MW-71	8/1/2022	FPP - Could Not Sample									
MW-72	8/1/2022	FPP - Could Not Sample									
MW-73	8/19/2021	<1.0	<1.0	<1.0	6.8	130	9.4	1.4	1.7	14	---
	8/1/2022	1.1 J	<5.0	<5.0	7.7 J	120	7.9	<5.0	3.3	16	<0.080
MW-74	8/19/2021	330	81	<10	<30	120	11	<10	1.2	24	---
	8/1/2022	Sheen Observed - Could Not Sample									

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TABLE 6B
RCRA WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	4-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		**VOCs - EPA RSL Tap Water THQ = 0.1**							**NMED Soil Screening Guidance Table 6-4**		
Screening Levels		**5.6**	**6.0**	**-**	**100**	**66**	**200**	**69**	**0.0167**	**0.0101**	**0.0858**
MW-75	8/18/2021	<1.0	<1.0	<1.0	<3.0	**58**	**7.6**	**1.7**	**1.1**	**14**	---
	8/18/2021	<1.0	<1.0	<1.0	<3.0	**58**	**7.8**	**1.7**	**1.1**	**13**	---
	8/1/2022	Sheen Observed - Could Not Sample									
MW-76	8/18/2021	**1.0**	<1.0	<1.0	<3.0	**58**	**8.0**	**1.1**	**1.5**	**1.2**	---
	8/1/2022	**0.27 J**	<2.0	<2.0	**1.6 J**	**57**	**7.7**	**1.1 J**	**2.9**	**0.74**	**0.066 J**
MW-77	8/1/2022	FPP - Could Not Sample									
MW-78	8/3/2022	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	**0.054 J**	<0.050	<0.080
	8/3/2022	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	**0.055 J**	<0.050	<0.080

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

FPP = Free Product Present

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TABLE 6C
RCRA WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	1-Methylnaphthalene (µg/L)	2,4-Dimethylphenol (µg/L)	2-Methylnaphthalene (µg/L)	3+4-Methylphenol (µg/L)	4,6-Dinitro-2-methylphenol (µg/L)	Benzoic Acid (µg/L)	Bis(2-ethylhexyl)phthalate (µg/L)	Butyl benzyl phthalate (µg/L)	Di-n-octyl phthalate (µg/L)	Fluorene (µg/L)	Naphthalene (µg/L)
Screening Source		SVOCs - EPA RSL Tap Water THQ = 0.1										
Screening Levels		11.4	36	35.1	93	0.15	7500	5.6	16	-	29	1.17
**MW-50	8/7/2010	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/16/2011	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/15/2012	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/15/2013	< 10	< 10	< 10	< 10	< 20	< 40	< 10	< 10	< 10	< 10	< 10
	8/19/2014	---	---	---	---	---	---	---	---	---	---	---
	8/19/2015	---	---	---	---	---	---	---	---	---	---	---
	8/23/2016	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/23/2020	---	---	---	---	---	---	---	---	---	---	---
MW-51	8/7/2010	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/16/2011	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/15/2012	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/15/2013	< 10	< 10	< 10	< 10	< 20	< 40	< 10	< 10	< 10	< 10	< 10
	8/19/2014	< 10	< 10	< 10	< 10	< 21	< 21	< 10	< 10	< 10	< 10	< 10
	8/19/2015	---	---	---	---	---	---	---	---	---	---	---
	8/23/2016	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/23/2017	---	---	---	---	---	---	---	---	---	---	---
	8/3/2018	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/1/2019	---	---	---	---	---	---	---	---	---	---	---
	8/23/2020	---	---	---	---	---	---	---	---	---	---	---
	8/16/2021	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<20	<5.0	<5.0
	8/3/2022	<5.0	<10	<5.0	<10	<10	<20	<10	<10	<20	<10	<5.0
MW-53	8/7/2010	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/16/2011	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/15/2012	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/15/2013	< 10	< 10	< 10	< 10	< 20	< 40	< 10	< 10	< 10	< 10	< 10
	8/19/2014	< 11	< 11	< 11	< 11	< 22	< 22	< 11	< 11	< 11	< 11	< 11
	8/19/2015	< 10	< 10	< 10	< 10	< 20	< 20	**12**	< 10	< 10	< 10	< 10
	8/24/2016	---	---	---	---	---	---	---	---	---	---	---
	8/23/2017	---	---	---	---	---	---	---	---	---	---	---
	8/3/2018	---	---	---	---	---	---	---	---	---	---	---
	8/23/2019	---	---	---	---	---	---	---	---	---	---	---
	8/7/2020	---	---	---	---	---	---	---	---	---	---	---
	8/18/2021	---	---	---	---	---	---	---	---	---	---	---
	8/18/2021	---	---	---	---	---	---	---	---	---	---	---
	8/2/2022	---	---	---	---	---	---	---	---	---	---	---
**MW-54	8/20/2020	---	---	---	---	---	---	---	---	---	---	---
	8/2/2022	Sheen Observed - Could Not Sample										
**MW-55	8/7/2010	<10	< 10	**150**	< 10	< 20	< 20	< 10	< 10	< 10	< 10	**290**
	8/1/2022	FPP - Could Not Sample										
MW-56	8/16/2011	**73**	< 10	**110**	< 10	< 20	< 20	< 10	< 10	< 10	< 10	**200**
	8/23/2017	---	---	---	---	---	---	---	---	---	---	---
	8/1/2018	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---
	8/10/2020	<2.5	<4.9	<2.5	<4.2	<2.4	<9.3	<6.9	<3.5	<16	<3.0	**2.9 J**
	8/1/2022	FPP - Could Not Sample										

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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	1-Methylnaphthalene (µg/L)	2,4-Dimethylphenol (µg/L)	2-Methylnaphthalene (µg/L)	3+4-Methylphenol (µg/L)	4,6-Dinitro-2-methylphenol (µg/L)	Benzoic Acid (µg/L)	Bis(2-ethylhexyl)phthalate (µg/L)	Butyl benzyl phthalate (µg/L)	Di-n-octyl phthalate (µg/L)	Fluorene (µg/L)	Naphthalene (µg/L)
Screening Source		SVOCs - EPA RSL Tap Water THQ = 0.1										
Screening Levels		**11.4**	**36**	**35.1**	**93**	**0.15**	**7500**	**5.6**	**16**	**-**	**29**	**1.17**
**MW-57	8/24/2016	< 50	< 50	< 50	< 50	< 100	< 100	< 50	< 50	**83**	**76**	**240**
	8/23/2017	---	---	---	---	---	---	---	---	---	---	---
	8/1/2018	---	FPP+C610	---	---	---	---	---	---	---	---	---
	8/20/2020	---	---	---	---	---	---	---	---	---	---	---
	8/1/2022	FPP - Could Not Sample										
**MW-58	8/7/2010	<10	< 10	**90**	< 10	< 20	< 20	< 10	< 10	< 10	< 10	**76**
	8/1/2022	Sheen Observed - Could Not Sample										
MW-59	8/1/2010	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	**12**
	8/16/2011	**13**	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	**22**
	8/15/2012	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	**17**
	8/15/2013	< 10	< 10	< 10	< 10	< 20	< 40	< 10	< 10	< 10	< 10	< 10
	8/19/2014	< 10	< 10	< 20	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/19/2015	---	---	---	---	---	---	---	---	---	---	---
	8/22/2016	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/22/2017	< 50	< 50	< 50	< 50	< 100	**36 J**	< 50	< 50	< 50	< 50	< 50
	8/3/2018	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/22/2019	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/12/2020	< 2.5	< 4.9	< 2.5	< 4.2	< 2.4	< 9.3	< 6.9	< 3.5	< 16	< 3.0	< 2.9
	8/24/2021	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0
	8/3/2022	---	---	---	---	---	---	---	---	---	---	---
**MW-60	8/1/2010	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/16/2011	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/23/2017	< 10	< 10	< 10	< 10	< 20	**10 J**	< 10	< 10	< 10	< 10	< 10
	8/1/2018	---	---	---	---	---	---	---	---	---	---	---
	8/19/2019	---	---	---	---	---	---	---	---	---	---	---
	8/11/2020	---	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Insufficient Water to Collect Sample										
**MW-61	8/11/2020	<13	**47**	<13	<21	**23 J**	**50 J**	<35	<17	<78	<15	**17 J**
	8/24/2021	**18**	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<10	<5.0
	8/1/2022	Well Could Not Be Accessed										
MW-62	8/1/2010	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/16/2011	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/16/2012	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/15/2013	< 10	< 10	< 10	< 10	< 20	< 40	< 10	< 10	< 10	< 10	< 10
	8/19/2014	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/19/2015	---	---	---	---	---	---	---	---	---	---	---
	8/22/2016	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/23/2017	< 10	< 10	< 10	< 10	< 20	**11 J**	< 10	< 10	< 10	< 10	< 10
	8/8/2018	---	---	---	---	---	---	---	---	---	---	---
	8/23/2019	---	---	---	---	---	---	---	---	---	---	---
	8/12/2020	---	---	---	---	---	---	---	---	---	---	---
	8/23/2021	---	---	----	---	---	---	---	---	---	---	---
	8/4/2022	---	---	---	---	---	---	---	---	---	---	---

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San Juan County, New Mexico

Sample Location	Sample Date	1-Methylnaphthalene (µg/L)	2,4-Dimethylphenol (µg/L)	2-Methylnaphthalene (µg/L)	3+4-Methylphenol (µg/L)	4,6-Dinitro-2-methylphenol (µg/L)	Benzoic Acid (µg/L)	Bis(2-ethylhexyl)phthalate (µg/L)	Butyl benzyl phthalate (µg/L)	Di-n-octyl phthalate (µg/L)	Fluorene (µg/L)	Naphthalene (µg/L)
Screening Source		SVOCs - EPA RSL Tap Water THQ = 0.1										
Screening Levels		11.4	36	35.1	93	0.15	7500	5.6	16	-	29	1.17
MW-63	8/1/2010	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/16/2011	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/15/2012	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/15/2013	< 10	< 10	< 10	< 10	< 20	< 40	< 10	< 10	< 10	< 10	< 10
	8/19/2014	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/19/2015	---	---	---	---	---	---	---	---	---	---	---
	8/22/2016	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/22/2017	< 10	< 10	< 10	< 10	< 20	**18 J**	**4.9 J**	< 10	< 10	< 10	< 10
	8/8/2018	---	---	---	---	---	---	---	---	---	---	---
	8/22/2019	---	---	---	---	---	---	---	---	---	---	---
	8/11/2020	---	---	---	---	---	---	---	---	---	---	---
	8/24/2021	---	---	---	---	---	---	---	---	---	---	---
	8/2/2022	---	---	---	---	---	---	---	---	---	---	---
MW-64	8/1/2010	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/16/2011	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/16/2012	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/15/2013	< 10	< 10	< 10	< 10	< 20	< 40	< 10	< 10	< 10	< 10	< 10
	8/19/2014	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/19/2015	---	---	---	---	---	---	---	---	---	---	---
	8/22/2016	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/22/2017	< 10	< 10	< 10	< 10	< 20	**8.3 J**	< 10	< 10	< 10	< 10	< 10
	8/8/2018	---	---	---	---	---	---	---	---	---	---	---
	8/22/2019	---	---	---	---	---	---	---	---	---	---	---
	8/12/2020	---	---	---	---	---	---	---	---	---	---	---
	8/24/2021	---	---	---	---	---	---	---	---	---	---	---
	8/2/2022	---	---	---	---	---	---	---	---	---	---	---
MW-65	8/1/2010	<10	**54**	**97**	< 10	< 20	< 20	< 10	< 10	< 10	< 10	**260**
	8/16/2011	**91**	**32**	**140**	< 10	< 20	< 20	< 10	< 10	< 10	< 10	**330**
	8/15/2012	**98**	**17**	**150**	< 10	< 20	< 20	< 10	< 10	< 10	< 10	**260**
	8/15/2013	**80**	**18**	**130**	< 10	< 20	**110**	< 10	< 10	< 10	< 10	**310**
	8/19/2014	**150**	**210**	**150**	**14**	< 20	< 20	< 10	< 10	< 10	< 10	**430**
	8/19/2015	---	---	---	---	---	---	---	---	---	---	---
	8/22/2016	**14**	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/22/2017	**100**	< 50	< 50	< 50	< 100	**92 J**	< 50	< 50	< 50	< 50	**19 J**
	8/8/2018	**100**	**21**	< 10	**10**	< 20	< 20	< 10	< 10	< 10	< 10	**21**
	8/22/2019	---	---	---	---	---	---	---	---	---	---	---
	8/11/2020	---	---	---	---	---	---	---	---	---	---	---
	8/16/2021	Well Destroyed										
**MW-66	8/11/2020	**26**	<32	<17	<28	<16	<62	<46	<23	<100	<20	**27 J**
	8/1/2022	FPP - Could Not Sample										
MW-67	8/16/2011	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/15/2012	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/15/2013	< 10	< 10	< 10	< 10	< 20	< 40	< 10	< 10	< 10	< 10	< 10
	8/19/2014	< 11	< 11	< 11	< 11	< 23	< 23	< 11	< 11	< 11	< 11	< 11
	8/19/2015	---	---	---	---	---	---	---	---	---	---	---
	8/19/2016	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10

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Sample Location	Sample Date	1-Methylnaphthalene (µg/L)	2,4-Dimethylphenol (µg/L)	2-Methylnaphthalene (µg/L)	3+4-Methylphenol (µg/L)	4,6-Dinitro-2-methylphenol (µg/L)	Benzoic Acid (µg/L)	Bis(2-ethylhexyl)phthalate (µg/L)	Butyl benzyl phthalate (µg/L)	Di-n-octyl phthalate (µg/L)	Fluorene (µg/L)	Naphthalene (µg/L)
Screening Source		**SVOCs - EPA RSL Tap Water THQ = 0.1**										
Screening Levels		**11.4**	**36**	**35.1**	**93**	**0.15**	**7500**	**5.6**	**16**	**-**	**29**	**1.17**
MW-67	8/23/2017	---	---	---	---	---	---	---	---	---	---	---
	8/3/2018	---	---	---	---	---	---	---	---	---	---	---
	8/23/2019	---	---	---	---	---	---	---	---	---	---	---
	8/10/2020	---	---	---	---	---	---	---	---	---	---	---
	8/20/2021	---	---	---	---	---	---	---	---	---	---	---
	8/4/2022	---	---	---	---	---	---	---	---	---	---	---
MW-68	8/16/2011	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/15/2012	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/15/2013	< 10	< 10	< 10	< 10	< 20	< 40	< 10	< 10	< 10	< 10	< 10
	8/19/2014	< 10	< 11	< 10	< 11	< 22	< 20	< 10	< 10	< 10	< 10	< 10
	8/19/2015	---	---	---	---	---	---	---	---	---	---	---
	8/24/2016	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 10
	8/23/2017	---	---	---	---	---	---	---	---	---	---	---
	8/3/2018	---	---	---	---	---	---	---	---	---	---	---
	8/23/2019	---	---	---	---	---	---	---	---	---	---	---
	8/10/2020	---	---	---	---	---	---	---	---	---	---	---
	8/19/2021	---	---	---	---	---	---	---	---	---	---	---
	8/3/2022	---	---	---	---	---	---	---	---	---	---	---
****MW-69**	8/19/2020	---	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Well Dry - Could Not Sample										
MW-70	8/19/2015	---	---	---	---	---	---	---	---	---	---	---
	8/24/2016	---	---	---	---	---	---	---	---	---	---	---
	8/23/2017	< 10	< 10	< 10	< 10	< 20	**6.7 J**	< 10	< 10	< 10	< 10	< 10
	8/8/2018	< 10	< 10	< 10	< 10	< 20	**6.7 J**	< 10	< 10	< 10	< 10	< 10
	8/23/2019	---	---	---	---	---	---	---	---	---	---	---
	8/12/2020	---	---	---	---	---	---	---	---	---	---	---
	8/18/2021	---	---	---	---	---	---	---	---	---	---	---
	8/2/2022	Insufficient Water to Collect Sample										
MW-71	8/1/2022	FPP - Could Not Sample										
MW-72	8/1/2022	FPP - Could Not Sample										
MW-73	8/19/2021	**29**	<5.0	**36**	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	**85**
	8/1/2022	<5.0	<10	**45**	<10	<10	<20	<10	<10	<20	<10	**100**
MW-74	8/19/2021	**51**	<5.0	**66**	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	**110**
	8/1/2022	Sheen Observed - Could Not Sample										
MW-75	8/18/2021	**24**	<5.0	**33**	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	**54**
	8/18/2021	**24**	<5.0	**32**	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	**54**
	8/1/2022	Sheen Observed - Could Not Sample										
MW-76	8/18/2021	**56**	<5.0	**70**	<5.0	<5.0	<5.0	<10	<5.0	<10	**5.3**	**120**
	8/1/2022	**49**	<10	**67**	<10	<10	<20	<10	<10	<20	<10	**91**
MW-77	8/1/2022	FPP - Could Not Sample										
MW-78	8/3/2022	<5.0	<10	<5.0	<10	<10	<20	<10	<10	<20	<10	<5.0
	8/3/2022	<5.0	<10	<5.0	<10	<10	<20	<10	<10	<20	<10	<5.0

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TABLE 6C
RCRA WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	1-Methylnaphthalene (µg/L)	2,4-Dimethylphenol (µg/L)	2-Methylnaphthalene (µg/L)	3+4-Methylphenol (µg/L)	4,6-Dinitro-2-methylphenol (µg/L)	Benzoic Acid (µg/L)	Bis(2-ethylhexyl)phthalate (µg/L)	Butyl benzyl phthalate (µg/L)	Di-n-octyl phthalate (µg/L)	Fluorene (µg/L)	Naphthalene (µg/L)
Screening Source		**SVOCs - EPA RSL Tap Water THQ = 0.1**										
Screening Levels		**11.4**	**36**	**35.1**	**93**	**0.15**	**7500**	**5.6**	**16**	**-**	**29**	**1.17**

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

FPP = Free Product Present

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TABLE 6D
RCRA WELLS ANALYTICAL SUMMARY
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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Phenol (µg/L)	Pyridine (µg/L)	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)
Screening Source		SVOCs - EPA RSL Tap Water THQ = 0.1		Anions - NMAC 20.6.2									
Screening Levels		580	2.0	1.6	250	1.0	-	10	-	600	-	-	-
**MW-50	8/7/2010	< 10	< 10	0.4	12	0.10	<0.10	0.14	<0.50	66	210	210	210
	8/16/2011	< 10	< 10	0.39	8	<0.10	<0.10	0.21	<0.50	38.0	200	230	230
	8/15/2012	< 10	< 10	0.37	6.6	< 0.10	< 0.10	< 0.10	< 0.50	26	220	240	240
	8/15/2013	< 10	< 10	0.35	3.7	< 0.10	< 0.10	0.16	< 0.50	41	250	280	280
	8/19/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/19/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/23/2016	< 10	< 10	0.23	4.5	< 0.10	< 0.10	0.23	< 0.50	37	230	255.9	255.9
	8/23/2020	---	---	---	---	---	---	---	---	---	---	---	---
MW-51	8/7/2010	< 10	< 10	0.52	14	<0.10	<0.10	0.14	<0.50	61	250	250	250
	8/16/2011	< 10	< 10	0.59	12	<0.10	<0.10	0.70	<0.50	67	210	240	240
	8/15/2012	< 10	< 10	0.51	7.6	<0.10	< 0.1	0.25	< 0.5	35	210	230	230
	8/15/2013	< 10	< 10	0.55	9.6	< 0.10	< 0.10	0.82	< 0.50	47	220	250	250
	8/19/2014	< 10	< 10	0.54	15	< 0.10	0.12	1.4	< 0.50	76	250	270	270
	8/19/2015	---	---	0.52	8.3	< 0.10	< 0.10	0.34	< 0.50	43	240	264.9	264.9
	8/23/2016	< 10	< 10	0.5	11	< 0.10	0.15	1.7	< 0.50	120	220	243	243
	8/23/2017	---	---	0.37	11	< 0.10	< 0.10	0.44	< 0.50	45	270	287.7	287.7
	8/3/2018	< 10	< 10	0.40	8.3	<1.0	< 0.10	<1.0	< 0.50	12	230	254.1	254.1
	8/1/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/23/2020	---	---	---	---	---	---	---	---	---	---	---	---
	8/16/2021	<5.0	<5.0	---	---	---	---	---	---	---	---	---	---
	8/3/2022	<20	<40	0.36	7.7	0.018 J	0.072 J	0.97	<0.50	34	300 H	324.0	324.0
MW-53	8/7/2010	< 10	< 10	0.29	840	<2.0	1.80	8.10	<0.50	990	350	350	350
	8/16/2011	< 10	< 10	0.22	920	<2.0	1.80	11	<0.50	1000	330	370	370
	8/15/2012	< 10	< 10	0.4	960	< 2.0	1.7	12	< 0.5	1000	320	340	340
	8/15/2013	< 10	< 10	< 0.10	620	< 2.0	2.1	14	< 10	1200	310	350	350
	8/19/2014	< 11	< 11	0.11	1000	< 2.0	2.2	6.8	< 0.50	1300	310	330	330
	8/19/2015	< 10	< 10	< 0.10	960	< 2.0	2.1	9.3	< 10	1000	290	318.5	318.5
	8/24/2016	---	---	< 0.10	920	< 2.0	3	12	< 0.50	980	300	329.8	329.8
	8/23/2017	---	---	< 0.10	1000	< 2.0	2.2	12	< 0.50	1100	300	331.1	331.1
	8/3/2018	---	---	< 2.0	890	15	2.2	15	< 0.50	900	330	350.6	350.6
	8/23/2019	---	---	<0.050	920	14	1.8	14	<2.5 H	960	320	350.9	350.9
	8/7/2020	---	---	<0.22	940	20*	2.0	20*	<1.2 H	930	210 H	235	235
	8/18/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/18/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/2/2022	---	---	<2.0	790	<2.0	2.5	25	<10	980	240 H	259.1	259.1
**MW-54	8/20/2020	---	---	---	---	---	---	---	---	---	---	---	---
	8/2/2022	Sheen Observed - Could Not Sample											
**MW-55	8/7/2010	16	< 10	0.35	470	6.10	4.40	*6.1	<0.50	1	1000	1000	1000
	8/1/2022	FPP - Could Not Sample											
MW-56	8/16/2011	< 10	< 10	<0.10	420	<0.10	4.20	<0.10	<0.50	<0.50	1000	1100	1100
	8/23/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/10/2020	<3.2	<4.7	<0.22	450	<0.070	4.90	0.22 J	<1.2	1.8 J	970 H	1033	1033
	8/1/2022	FPP - Could Not Sample											
**MW-57	8/24/2016	< 50	< 50	< 0.50	340	< 0.50	2.8	< 0.50	3.1	< 2.5	940	981.8	981.8
	8/23/2017	---	---	---	---	---	---	---	---	---	---	---	---

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TABLE 6D
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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Phenol (µg/L)	Pyridine (µg/L)	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)
Screening Source		SVOCs - EPA RSL Tap Water THQ = 0.1		Anions - NMAC 20.6.2									
Screening Levels		580	2.0	1.6	250	1.0	-	10	-	600	-	-	-
**MW-57	8/1/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2020	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2022	FPP - Could Not Sample											
**MW-58	8/7/2010	11	< 10	0.31	270	*5.5	5.00	*5.5	<0.50	2	1100	1100	1100
	8/1/2022	Sheen Observed - Could Not Sample											
MW-59	8/1/2010	< 10	< 10	0.34	120	*1.3	1.40	*1.3	<0.50	210	860	860	860
	8/16/2011	< 10	< 10	0.33	140	<0.10	0.31	0.26	<0.50	320	940	940	940
	8/15/2012	< 10	< 10	< 0.5	150	< 0.5	2.5	< 0.5	< 2.5	310	960	990	990
	8/15/2013	< 10	< 10	< 0.50	180	< 0.50	2.7	< 0.50	< 2.5	510	920	970	970
	8/19/2014	14	< 10	0.20	210	< 0.10	2.0	< 2.0	< 0.50	830	910	950	950
	8/19/2015	---	---	< 0.10	240	< 0.10	1.2	0.28	< 0.50	780	940	1035	1035
	8/22/2016	< 10	< 10	< 0.10	190	< 0.10	< 0.10	0.6	< 0.50	200	1000	1094	1094
	8/22/2017	< 50	< 50	< 0.50	200	< 0.50	3.4	0.26 J	< 2.5	170	1000	1105	1105
	8/3/2018	< 10	< 10	< 0.10	190	<1.0	3.1	<1.0	< 0.50	180	1000	1050	1050
	8/22/2019	< 10	< 10	<0.50	240	0.32 J	3.1	0.32 J	< 0.50	180	1100	1050	1050
	8/12/2020	< 3.2	< 4.7	<0.22	250	0.47 J	3.6	9.4	<1.2	850	910 H	985.1	985.1
	8/24/2021	<5.0	<5.0	---	---	---	---	---	---	---	---	---	---
	8/3/2022	---	---	<0.10	280	0.56	5.3	27	<10	990	1000 H	998.7	998.7
**MW-60	8/1/2010	< 10	< 10	<0.10	110	<2.0	2.30	31	<0.50	730	590	590	590
	8/16/2011	< 10	< 10	0.26	210	<0.10	4.40	26	<0.50	1000	730	780	780
	8/23/2017	< 10	< 10	< 0.10	190	< 0.10	3.8	26	< 0.50	1300	720	786.2	786.2
	8/1/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/19/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/11/2020	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Insufficient Water to Collect Sample											
**MW-61	8/11/2020	<16	<23	0.54	59	<0.061	0.80	<0.061*	<1.2 H	10	640 H	687.0	687.0
	8/24/2021	<5.0	<5.0	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Well Could Not Be Accessed											
MW-62	8/1/2010	< 10	< 10	<0.10	16	<0.10	<0.10	0.29	<0.50	5100	550	550	550
	8/16/2011	< 10	< 10	0.14	15.00	<0.10	<0.10	*<1.0	<0.50	3700	530	550	550
	8/16/2012	< 10	< 10	< 0.5	12	< 1	< 0.5	*< 1	< 2.5	3600	580	610	610
	8/15/2013	< 10	< 10	< 0.10	14	< 0.10	< 0.10	< 0.10	< 10	3600	580	620	620
	8/19/2014	< 10	< 10	< 2.0	14	< 0.10	< 0.10	0.38	< 10	4100	470	500	500
	8/19/2015	---	---	< 0.10	14	< 0.10	< 0.10	< 0.10	< 10	4000	520	573.9	573.9
	8/22/2016	< 10	< 10	< 2.0	14	< 1.0	< 0.10	< 1.0	< 10	4000	500	550	550
	8/23/2017	< 10	< 10	< 0.10	13	0.016 J	0.071 J	0.094 J	< 10	3700	580	626.3	626.3
	8/8/2018	---	---	<0.50	11	0.068 J	0.22	0.078 J	6.7 J	3600	600 H	622.9	622.9
	8/23/2019	---	---	<0.50	12	0.076 J	<0.50	0.076 J	< 10 H	4000	590 H	630.2	630.2
	8/12/2020	---	---	<0.22	13	<0.070	<0.25	0.27 J	<1.2	3400	520 H	569.1	569.1
	8/23/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/4/2022	---	---	<2.0	13	<0.10	<0.10	0.23	<10	3500	520 H	540.1	540.1
MW-63	8/1/2010	< 10	< 10	0.16	290	<2.0	4.60	110	<0.50	2200	580	580	580
	8/16/2011	< 10	< 10	0.2	180	<2.0	2.90	67	<0.50	1400	540	560	560
	8/15/2012	< 10	< 10	< 0.5	250	110*	5.2	*110	< 2.5	1800	530	520	520
	8/15/2013	< 10	< 10	0.14	370	< 2.0	6.6	150	< 10	2100	420	430	430
	8/19/2014	< 10	< 10	< 0.10	390	< 0.10	7.3	170	< 10	2400	380	400	400
	8/19/2015	---	---	< 0.10	270	< 0.10	4	78	< 10	1700	480	522.5	522.5

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RCRA WELLS ANALYTICAL SUMMARY
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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Phenol (µg/L)	Pyridine (µg/L)	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)
Screening Source		SVOCs - EPA RSL Tap Water THQ = 0.1		Anions - NMAC 20.6.2									
Screening Levels		580	2.0	1.6	250	1.0	-	10	-	600	-	-	-
MW-63	8/22/2016	< 10	< 10	0.16	100	< 0.10	1.5	39	< 0.50	1200	470	500.7	500.7
	8/22/2017	< 10	< 10	< 0.10	110	0.13	1.8	35	< 0.50	1300	580	597	597
	8/8/2018	---	---	< 0.10	92	0.057	1.2	32	5.3 J	1200	610	616.5	616.5
	8/22/2019	---	---	<0.50	160	66	3.2	66	<2.5 H	2200	600 H	593.4	593.4
	8/11/2020	---	---	<0.22	130	63*	2.7	63*	<1.2 H	1900	540 H	583.8	583.8
	8/24/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/2/2022	---	---	---	---	---	---	---	---	---	---	---	---
MW-64	8/1/2010	< 10	< 10	0.18	840	*52	2.90	*52	<0.50	1600	340	340	340
	8/16/2011	< 10	< 10	0.27	830	<2.0	3.80	60	<0.50	1600	310	330	330
	8/16/2012	< 10	< 10	< 0.50	940	43	5.7	*43	< 2.5	1600	300	300	300
	8/15/2013	< 10	< 10	0.35	920	< 2.0	2.4	32	< 10	1400	280	290	290
	8/19/2014	< 10	< 10	< 0.10	1100	< 2.0	2.6	36	< 0.50	1600	270	290	290
	8/19/2015	---	---	< 0.10	940	< 2.0	3.4	40	< 10	1500	260	287.7	287.7
	8/22/2016	< 10	< 10	< 10	860	< 10	5.1	58	< 50	1500	260	279	279
	8/22/2017	< 10	< 10	< 0.10	790	< 2.0	3.5	55	< 0.50	1500	260	276.3	276.3
	8/8/2018	---	---	<2.0	840	< 2.0	2.5	52	5.7 J	1500	270	275.2	275.2
	8/22/2019	---	---	<0.50	860	45	2.4	45	<2.5 H	1500	270	276.5	276.5
	8/12/2020	---	---	<0.22	610	<0.070	1.9	37	<1.2	1100	290 H	315.5	315.5
	8/24/2021	--	---	---	---	---	---	---	---	---	---	---	---
	8/2/2022	---	---	0.054 J	760	<2.0	2.4	38	<10	1200	280 H	299.0	299.0
MW-65	8/1/2010	<10	< 10	<0.50	220	<1.0	3.70	*<1.0	<2.5	620	1100	1100	1100
	8/16/2011	13	< 10	0.26	180	<1.0	4.00	<1.0	<0.50	460	1100	1200	1200
	8/15/2012	52	260	< 0.5	160	< 1	4.3	*< 1	< 2.5	1600	1100	1200	1200
	8/15/2013	39	< 10	< 0.50	180	< 0.50	3.6	< 0.50	< 2.5	1500	1200	1300	1300
	8/19/2014	< 10	< 10	< 0.10	290	< 0.10	0.69	1.2	< 0.50	530	1400	1500	1500
	8/19/2015	---	---	< 0.50	210	< 0.50	4.5	< 0.50	< 2.5	970	1300	1335	1335
	8/22/2016	< 10	< 10	< 0.50	220	< 0.50	4.2	< 0.50	< 2.5	1600	860	946	946
	8/22/2017	22 J	< 50	< 0.10	230	< 0.10	0.99	0.035 J	< 0.50	1400	1100	1177	1177
	8/8/2018	13	< 10	<0.50	200	<0.50	5	0.21 J	3	560	1200	1305	1305
	8/22/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/11/2020			<0.22	190	<0.061*	4.10	<0.061*	<1.2 H	370	1100	1230	1230
	8/16/2021	Well Destroyed											
**MW-66	8/11/2020	<21	<31	0.29 J	99	<0.061*	2.30	<0.061*	<1.2 H	1300	1000 H	1144	1144
	8/1/2022	FPP - Could Not Sample											
MW-67	8/16/2011	< 10	< 10	0.82	22	<0.10	0.16	4.30	<0.50	190	360	390	390
	8/15/2012	< 10	< 10	0.77	6.5	*5.5	< 0.5	*5.5	< 2.5	200.0	460	470	470
	8/15/2013	< 10	< 10	0.92	15	< 0.10	0.11	3.7	< 0.50	140	340	370	370
	8/19/2014	< 11	< 11	0.63	12	2.7	0.11	2.7	< 0.50	210	380	410	410
	8/19/2015	---	---	0.62	14	< 0.10	0.13	13	< 0.50	240	310	342.5	342.5
	8/19/2016	< 10	< 10	< 0.10	12	< 0.10	0.16	9.9	< 0.50	270	290	314.7	314.7
	8/23/2017	---	---	0.87	12	< 0.10	0.15	13	< 0.50	180	320	345.5	345.5
	8/3/2018	---	---	0.62	14	8.6	0.16	8.6	< 0.50	240	330	351.6	351.6
	8/23/2019	---	---	0.52	17	3.8	<0.50	3.8	<2.5 H	260	340	351.6	351.6
	8/10/2020	---	---	1.1	20	<0.070	0.29 J	15	<1.2	410	250 H	273.2	273.2
	8/20/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/4/2022	---	---	0.46	19	<0.10	0.22	16	<0.50	520	260 H	275.2	275.2

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TABLE 6D
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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Phenol (µg/L)	Pyridine (µg/L)	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)
Screening Source		SVOCs - EPA RSL Tap Water THQ = 0.1		Anions - NMAC 20.6.2									
Screening Levels		580	2.0	1.6	250	1.0	-	10	-	600	-	-	-
MW-68	8/16/2011	< 10	< 10	0.41	72	<0.10	0.25	6.70	<0.50	470	190	210	210
	8/15/2012	< 10	< 10	< 0.5	62	*6	< 0.5	*6	< 2.5	280	190	200	200
	8/15/2013	< 10	< 10	0.47	43	< 0.10	0.25	8.2	< 0.50	250	190	210	210
	8/19/2014	< 11	< 10	0.45	34	< 0.10	0.23	8.6	< 0.50	300	200	220	220
	8/19/2015	---	---	0.35	42	< 0.10	0.23	7.6	< 0.50	280	180	200.2	200.2
	8/24/2016	< 10	< 10	0.41	38	< 0.10	0.21	5.6	< 0.50	260	210	236.3	236.3
	8/23/2017	---	---	0.26	52	< 0.10	0.22	7.6	< 0.50	250	220	236.7	236.7
	8/3/2018	---	---	0.27	60	4.5	0.23	4.5	< 0.50	200	250	264.4	264.4
	8/23/2019	---	---	0.24 J	50	6.8	<0.50	6.8	<2.5 H	260	220	238.3	238.3
MW-68	8/10/2020	---	---	0.45 J	20	<0.070	<0.25	4.7	<1.2	230	190	202.6	202.6
	8/19/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/2/2022	---	---	0.34	24	---	0.12	---	<0.50 H	220	260	279.1	279.1
**MW-69	8/19/2020	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Well Dry - Could Not Sample											
MW-70	8/19/2015	---	---	0.7	420	< 0.50	2.4	< 0.50	< 2.5	2400	780	809.4	809.4
	8/24/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/23/2017	< 10	< 10	0.45 J	330	< 0.50	1.7	< 0.50	< 2.5	1900	830	804.5	804.5
	8/8/2018	< 10	< 10	<0.50	280	< 0.50	1.6	0.23	< 2.5	1900	790	811.5	811.5
	8/23/2019	---	---	0.26 J	340	0.33	1.6	0.33	< 2.5 H	2100	790	785.4	785.4
	8/12/2020	---	---	0.82	360	<0.070	1.7	0.36 J	<1.2	2200	730 H	773.5	773.5
	8/18/2021	---	---	---	---	---	---	---	---	---	---	---	---
	8/2/2022	Insufficient Water to Collect Sample											
MW-71	8/1/2022	FPP - Could Not Sample											
MW-72	8/1/2022	FPP - Could Not Sample											
MW-73	8/19/2021	65	<5.0	---	---	---	---	---	---	---	---	---	---
	8/1/2022	180	<40	<0.50	120	---	2.7	---	<2.5 H	24	960 H	1020	1020
MW-74	8/19/2021	9.1	<5.0	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Sheen Observed - Could Not Sample											
MW-75	8/18/2021	12	<5.0	---	---	---	---	---	---	---	---	---	---
	8/18/2021	13	<5.0	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Sheen Observed - Could Not Sample											
MW-76	8/18/2021	<5.0	<5.0	---	---	---	---	---	---	---	---	---	---
	8/1/2022	<20	<40	0.48 J	28	---	0.65	---	<2.5 H	<2.5	850 H	901.6	901.6
MW-77	8/1/2022	FPP - Could Not Sample											
MW-78	8/3/2022	<20	<40	0.45 J	270	<0.50	1.1	35	<2.5	840	270 H	279.2	279.2
	8/3/2022	<20	<40	0.44 J	260	<0.50	1.1	35	<2.5	840	270 H	279.2	279.2

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San Juan County, New Mexico

Sample Location	Sample Date	Phenol (µg/L)	Pyridine (µg/L)	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)
Screening Source		SVOCs - EPA RSL Tap Water THQ = 0.1		Anions - NMAC 20.6.2									
Screening Levels		580	2.0	1.6	250	1.0	-	10	-	600	-	-	-

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

H = Holding time exceeded

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

* = Value exceeds Maximum Contaminant Level

FPP = Free Product Present

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TABLE 6E
RCRA WELLS ANALYTICAL SUMMARY
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San Juan County, New Mexico

Sample Location	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Copper (mg/L)
Screening Source		Total Metals - NMAC 20.6.2							Dissolved Metals - NMAC 20.6.2				
Screening Levels		0.01	2.0	0.05	0.015	0.05	0.05	0.002	0.01	2.0	0.005	-	1.0
**MW-50	8/7/2010	<0.02	0.13	<0.006	<0.005	<0.05	<0.005	<0.0002	<0.02	0.059	<0.002	68	<0.006
	8/16/2011	<0.02	0.11	<0.006	<0.005	<0.05	<0.005	<0.0002	0.0033	0.055	<0.002	51	<0.006
	8/15/2012	<0.02	0.096	<0.006	<0.005	<0.05	<0.005	<0.0002	0.004	0.071	<0.002	54	<0.006
	8/15/2013	< 0.020	0.088	< 0.0060	< 0.0050	< 0.050	< 0.025	< 0.00020	0.0036	0.083	< 0.0020	65	0.0013
	8/19/2014	---	---	---	---	---	---	---	---	---	---	---	---
	8/19/2015	---	---	---	---	---	---	---	---	---	---	---	---
	8/23/2016	< 0.020	0.31	0.0092	0.0059	< 0.050	< 0.0050	< 0.00020	< 0.020	0.077	< 0.0020	65	< 0.0060
	8/23/2020	---	---	---	---	---	---	---	---	---	---	---	---
MW-51	8/7/2010	<0.02	0.12	<0.006	<0.005	<0.05	<0.05	<0.0002	<0.02	0.076	<0.002	71	<0.006
	8/16/2011	<0.02	0.13	<0.006	0.0086	<0.05	<0.005	<0.0002	0.003	0.06	<0.002	68	<0.006
	8/15/2012	<0.02	0.076	<0.006	<0.005	<0.05	<0.05	<0.0002	0.0032	0.053	< 0.002	58	<0.006
	8/15/2013	< 0.020	0.099	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	0.0032	0.058	< 0.0020	65	0.0015
	8/19/2014	< 0.020	0.095	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.056	< 0.0020	76	< 0.0060
	8/19/2015	< 0.020	0.11	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.05	< 0.0020	63	< 0.0060
	8/23/2016	< 0.020	0.12	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.063	< 0.0020	91	< 0.0060
	8/23/2017	< 0.050	0.12	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	0.015 J	0.11	< 0.0020	71	< 0.0060
	8/3/2018	< 0.020	0.17	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	0.020	0.12	< 0.0020	60	< 0.0060
	8/1/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/23/2020	---	---	---	---	---	---	---	---	---	---	---	---
	8/16/2021	0.0072	0.082	<0.0060	<0.00050	<0.0010	<0.00050	<0.00020	0.0061	0.076	<0.00050	75	<0.0010
	8/3/2022	0.0073	0.160	<0.0060	<0.00050	0.00081 J	<0.0050	0.000096 J	0.0073	0.11	<0.0020	82	0.00094 J
MW-53	8/7/2010	<0.02	0.078	<0.006	<0.005	<0.05	<0.005	<0.0002	<0.02	0.025	<0.002	290	<0.006
	8/16/2011	<0.02	0.15	<0.006	<0.005	<0.05	<0.005	<0.0002	0.0034	0.024	<0.002	310	<0.006
	8/15/2012	< 0.020	0.038	<0.006	<0.005	<0.05	<0.005	<0.0002	0.0027	0.018	<0.002	340	<0.006
	8/15/2013	< 0.020	0.039	< 0.0060	< 0.0050	< 0.050	< 0.025	< 0.00020	0.0042	0.02	< 0.0020	330	0.022
	8/19/2014	< 0.020	0.041	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	< 0.020	< 0.0020	340	< 0.0060
	8/19/2015	< 0.020	0.64	0.012	0.01	< 0.0050	< 0.050	< 0.00020	< 0.020	0.026	< 0.0020	360	< 0.0060
	8/24/2016	< 0.020	0.051	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	< 0.020	< 0.0020	390	< 0.0060
	8/23/2017	< 0.050	0.12	0.0034 J	< 0.0050	< 0.050	< 0.0050	< 0.00020	0.052	0.013 J	< 0.0020	380	< 0.0060
	8/3/2018	< 0.020	< 0.020	< 0.0060	< 0.0050	< 0.050	0.01	< 0.00020	< 0.020	< 0.020	< 0.0020	380	< 0.0060
	8/23/2019	< 0.020	0.28	0.0040 J	0.0043 J	< 0.050	0.0040 J	0.00015 J	< 0.020	0.011 J	< 0.0020	330	0.0034 J
	8/7/2020	0.0021	0.016	< 0.0014	<0.0025	0.060	0.0035 J	< 0.00012	<0.0025	0.022	<0.00037	270	<0.0025
	8/18/2021	<0.0050	0.014	<0.0060	<0.0025	0.047	<0.0050	<0.00020	<0.0050	0.016	<0.0020	330	<0.0050
	8/18/2021	0.0014	0.015	<0.0060	<0.00050	0.063	<0.0050	<0.00020	<0.0050	0.017	<0.0020	310	<0.0050
	8/2/2022	0.0014 J	0.015	<0.0060	<0.00050	0.037	0.0061	<0.00020	0.0013 J	0.016	<0.0020	330	<0.0050
**MW-54	8/20/2020	---	---	---	---	---	---	---	---	---	---	---	---
	8/2/2022	Sheen Observed - Could Not Sample											
**MW-55	8/7/2010	0.06	5.9	0.054	0.3	<0.05	<0.005	<0.001	<0.02	2.5	<0.002	180	<0.006
	8/1/2022	FPP - Could Not Sample											
MW-56	8/16/2011	<0.02	2.6	<0.006	0.023	<0.05	<0.005	<0.0002	0.0068	2.6	<0.002	170	<0.006
	8/23/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/10/2020	0.0045	2.7	<0.0014	<0.00050	0.00057 J	<0.0013	<0.00012	0.0042498 J	2.7	<0.00037	140	<0.0025
	8/1/2022	FPP - Could Not Sample											
**MW-57	8/24/2016	< 0.020	2.1	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	1.9	< 0.0020	120	< 0.0060
	8/23/2017	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/20/2020	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2022	FPP - Could Not Sample											

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Sample Location	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Copper (mg/L)
Screening Source		Total Metals - NMAC 20.6.2							Dissolved Metals - NMAC 20.6.2				
Screening Levels		0.01	2.0	0.05	0.015	0.05	0.05	0.002	0.01	2.0	0.005	-	1.0
**MW-58	8/7/2010	<0.02	1.6	<0.006	0.034	<0.05	<0.005	<0.001	<0.02	1.6	<0.002	150	<0.006
	8/1/2022	Sheen Observed - Could Not Sample											
MW-59	8/1/2010	<0.02	0.095	<0.006	<0.005	<0.05	<0.005	<0.001	<0.02	0.073	<0.002	150	<0.006
	8/16/2011	<0.02	0.087	<0.006	<0.005	<0.05	<0.005	<0.0002	0.019	0.076	<0.002	190	<0.006
	8/15/2012	<0.02	0.640	0.017	0.035	<0.05	<0.005	<0.0002	0.014	0.085	<0.002	200	<0.006
	8/15/2013	< 0.020	0.10	< 0.0060	0.0052	< 0.050	< 0.0050	< 0.00020	0.017	0.072	< 0.0020	210	< 0.020
	8/19/2014	< 0.020	0.26	0.011	0.011	< 0.050	< 0.0050	< 0.00020	< 0.020	0.059	< 0.0020	260	< 0.0060
	8/19/2015	0.022	0.21	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.055	< 0.0020	250	< 0.0060
	8/22/2016	< 0.020	0.17	0.0062	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.076	< 0.0020	200	< 0.0060
	8/22/2017	< 0.050	0.11	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	0.032	0.083	< 0.0020	160	< 0.0060
	8/3/2018	< 0.020	0.12	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	<0.020	0.073	< 0.0020	170	< 0.0060
	8/22/2019	< 0.020	0.11	< 0.0060	< 0.0050	< 0.050	0.0018 J	0.00013 J	0.027	0.073	< 0.0020	200	< 0.0060
	8/12/2020	<0.0025	0.044	<0.0014	<0.00050	<0.0025	0.0035 J	<0.00012	<0.0025	0.048	<0.00037	270	<0.0025
	8/24/2021	<0.010	0.048	<0.0060	<0.0050	<0.010	<0.0050	<0.00020	<0.020	0.045	<0.0020	210	<0.020
	8/3/2022	0.0011	0.048	<0.0060	0.000087 J	0.0026	0.0039 J	<0.00020	0.00064 J	0.045	<0.0020	300	0.0011
**MW-60	8/1/2010	<0.02	0.089	0.0063	0.0051	<0.05	<0.005	<0.0002	<0.02	0.038	<0.002	220	<0.006
	8/16/2011	<0.02	0.07	<0.006	0.0063	<0.05	<0.005	<0.0002	0.0046	0.048	<0.002	230	<0.006
	8/23/2017	< 0.050	0.033	0.0031 J	< 0.0050	< 0.050	< 0.0050	0.000054 J	0.054	0.023	< 0.0020	230	0.0027 J
	8/1/2018	---	---	---	---	---	---	---	---	---	---	---	---
	8/19/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/11/2020	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Insufficient Water to Collect Sample											
**MW-61	8/11/2020	0.019	1.6	<0.0014	0.0076	<0.0025	<0.0013	<0.00012	0.016	1.6	0.00062 J	140	<0.0025
	8/24/2021	0.011	0.067	<0.0060	<0.0050	<0.010	<0.0050	<0.00020	<0.020	0.057	<0.0020	210	<0.020
	8/1/2022	Well Could Not Be Accessed											
MW-62	8/1/2010	0.024	0.032	<0.006	<0.005	<0.05	<0.005	<0.0002	<0.02	<0.02	<0.002	430	<0.006
	8/16/2011	<0.02	0.048	<0.006	<0.005	<0.05	<0.005	<0.0002	0.001	0.017	<0.002	430	<0.006
	8/16/2012	<0.02	0.021	<0.006	<0.005	<0.05	<0.005	<0.0002	< 0.001	0.015	<0.002	450	<0.006
	8/15/2013	< 0.020	0.31	0.015	0.0097	< 0.050	< 0.0050	< 0.00020	< 0.010	0.013	< 0.0020	440	< 0.010
	8/19/2014	< 0.020	< 0.020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	< 0.020	< 0.0020	440	< 0.0060
	8/19/2015	< 0.020	< 0.020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	< 0.020	< 0.0020	470	< 0.0060
	8/22/2016	< 0.020	0.33	0.0071	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	< 0.020	< 0.0020	450	< 0.0060
	8/23/2017	< 0.050	0.033	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	0.046	0.01 J	< 0.0020	450	< 0.0060
	8/8/2018	< 0.020	0.030	< 0.0060	< 0.0050	< 0.050	0.013	0.000066 J	<0.020	0.011 J	< 0.0020	450	< 0.0060
	8/23/2019	< 0.020	0.017 J	< 0.0060	< 0.0050	< 0.050	0.0061	0.00012 J	<0.020	0.0091 J	< 0.0020	440	0.0023 J
	8/12/2020	<0.0025	0.008	<0.0014	<0.0025	<0.0025	0.0054	<0.00012	<0.0025	0.0090 J	<0.00037	430	<0.0025
	8/23/2021	<0.010	0.010	<0.0060	<0.0050	<0.010	<0.0050	<0.00020	<0.010	0.011	<0.0020	420	<0.010
	8/4/2022	<0.0050	0.0097	<0.0060	<0.0025	<0.0050	0.011	<0.00020	<0.0050	0.0093	<0.0020	440	<0.0050
MW-63	8/1/2010	<0.02	0.029	<0.006	<0.005	<0.05	<0.005	<0.0002	<0.02	<0.02	<0.002	430	<0.006
	8/16/2011	<0.02	0.05	<0.006	<0.005	<0.05	<0.005	<0.0002	0.0034	0.013	<0.002	350	<0.006
	8/15/2012	<0.02	0.110	<0.006	<0.005	<0.05	<0.005	<0.0002	0.0068	0.017	<0.002	460	<0.006
	8/15/2013	< 0.020	0.04	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.015	< 0.0020	550	< 0.020
	8/19/2014	< 0.020	0.093	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	< 0.020	< 0.0020	560	< 0.0060
	8/19/2015	< 0.020	< 0.020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	< 0.020	< 0.0020	470	< 0.0060
	8/22/2016	< 0.020	0.28	0.016	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	0.023	< 0.0020	320	< 0.0060
	8/22/2017	< 0.050	0.019 J	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	0.034	< 0.020	< 0.0020	310	< 0.0060
	8/8/2018	< 0.020	0.12	0.0048 J	< 0.0050	< 0.050	0.0064	< 0.00020	<0.020	0.011	< 0.0020	330	< 0.0060
	8/22/2019	< 0.020	0.35	0.0099	< 0.0050	< 0.050	0.0027 J	< 0.00020	<0.020	0.013 J	< 0.0020	420	0.0043 J
	8/11/2020	0.0013	0.0087	<0.0014	<0.00050	0.020	0.0053	< 0.00012	<0.0025	0.0082 J	<0.00037	410	<0.0025
	8/24/2021	<0.0050	0.015	<0.0060	<0.0050	0.033	<0.0050	<0.00020	<0.020	0.015	<0.0020	480	<0.020

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TABLE 6E
RCRA WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Copper (mg/L)
Screening Source		Total Metals - NMAC 20.6.2							Dissolved Metals - NMAC 20.6.2				
Screening Levels		0.01	2.0	0.05	0.015	0.05	0.05	0.002	0.01	2.0	0.005	-	1.0
MW-63	8/2/2022	---	---	---	---	---	---	0.00010 J	**0.0014 J**	**0.015**	<0.0020	**530**	**0.0023 J**
MW-64	8/1/2010	<0.02	**0.6**	**0.029**	**0.005**	<0.05	<0.005	<0.0002	<0.02	<0.02	<0.002	**430**	<0.006
	8/16/2011	<0.02	**0.26**	**0.0094**	<0.005	<0.05	<0.005	<0.0002	**0.0046**	**0.012**	<0.002	**450**	<0.006
	8/16/2012	<0.020	**0.056**	<0.0060	<0.0050	<0.050	<0.0050	<0.00020	**0.0029**	**0.012**	< 0.0020	**490**	< 0.0060
	8/15/2013	< 0.020	**0.21**	**0.0063**	< 0.0050	< 0.050	< 0.0050	< 0.00020	**0.0045**	**0.011**	< 0.0020	**490**	< 0.050
	8/19/2014	< 0.020	**0.11**	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	< 0.020	< 0.0020	**470**	< 0.0060
	8/19/2015	< 0.020	**0.077**	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	< 0.020	< 0.0020	**530**	< 0.0060
	8/22/2016	< 0.020	**0.095**	< 0.0060	**0.0088**	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.024**	< 0.0020	**500**	< 0.0060
	8/22/2017	<0.010	**0.12**	**0.0050 J**	< 0.0050	< 0.050	< 0.0050	< 0.00020	**0.048**	**0.012 J**	< 0.0020	**480**	< 0.0060
	8/8/2018	<0.020	**0.29**	**0.0097**	< 0.0050	< 0.050	< 0.0050	**0.00012J**	<0.020	**0.011 J**	< 0.0020	**450**	< 0.0060
	8/22/2019	<0.020	**0.35**	**0.011**	< 0.0050	< 0.050	**0.0032 J**	**0.00021**	<0.020	**0.0098 J**	< 0.0020	**440**	**0.0029 J**
	8/12/2020	<0.0025	**0.015**	<0.0014	<0.00050	**0.023**	**0.0053**	<0.00012	<0.0025	**0.017 J**	<0.00037	**410**	<0.0025
	8/24/2021	<0.010	**0.014**	<0.0060	<0.0050	**0.027**	<0.0050	<0.00020	<0.020	**0.015**	<0.0020	**370**	<0.020
	8/2/2022	**0.0013 J**	**0.012**	<0.0060	<0.0025	**0.027**	**0.0079**	**0.000093 J**	**0.0019 J**	<0.020	**0.012 J**	**140**	<0.0050
MW-65	8/1/2010	**0.03**	**0.076**	<0.006	<0.005	<0.05	<0.005	<0.0002	<0.02	**0.069**	<0.002	**180**	<0.006
	8/16/2011	<0.02	**0.062**	<0.006	<0.005	<0.05	<0.005	<0.0002	**0.024**	**0.069**	<0.002	**170**	<0.006
	8/15/2012	<0.02	**0.058**	<0.006	<0.005	<0.05	<0.005	<0.0002	**0.020**	**0.053**	<0.002	**410**	<0.006
	8/15/2013	< 0.020	**0.07**	< 0.0060	**0.0064**	< 0.050	< 0.0050	< 0.00020	**0.023**	**0.057**	< 0.0020	**350**	< 0.020
	8/19/2014	< 0.020	**0.17**	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.17**	< 0.0020	**250**	< 0.0060
	8/19/2015	< 0.020	**0.21**	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.2**	< 0.0020	**270**	< 0.0060
	8/22/2016	**0.02**	**0.11**	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.045**	< 0.0020	**370**	< 0.0060
	8/22/2017	< 0.050	**0.058**	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	**0.049**	**0.039**	< 0.0020	**350**	< 0.0060
	8/8/2018	<0.020	**0.061**	< 0.0060	< 0.0050	< 0.050	**0.0065**	**0.000075J**	<0.020	**0.12**	< 0.0020	**200**	< 0.0060
	8/22/2019	---	---	---	---	---	---	---	---	---	---	---	---
	8/11/2020	**0.0010**	**0.24**	<0.0014	<0.00050	<0.0025	**0.0020 J**	<0.00012	<0.0025	**0.43**	<0.00037	**190**	<0.0025
	8/16/2021	Well Destroyed											
**MW-66	8/11/2020	**0.0051**	**0.064**	<0.0014	**0.00055 J**	<0.0025	**0.0031 J**	<0.00012	**0.0036 J**	**0.063**	<0.00037	**300**	<0.0025
	8/1/2022	FPP - Could Not Sample											
MW-67	8/16/2011	<0.02	**0.051**	<0.006	<0.005	<0.05	<0.005	<0.0002	<0.0010	**0.034**	<0.002	**120**	<0.006
	8/15/2012	<0.02	**0.052**	<0.006	<0.005	<0.05	<0.005	<0.0002	<0.001	**0.040**	<0.002	**160**	<0.006
	8/15/2013	< 0.020	**0.049**	< 0.0060	< 0.025	< 0.050	< 0.0050	< 0.00020	< 0.0010	**0.035**	< 0.0020	**120**	**0.0029**
	8/19/2014	< 0.020	**0.047**	< 0.0060	**0.0058**	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.034**	< 0.0020	**130**	< 0.0060
	8/19/2015	< 0.020	**0.12**	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.039**	< 0.0020	**150**	< 0.0060
	8/19/2016	< 0.020	**0.23**	**0.0089**	**0.005**	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.043**	< 0.0020	**140**	< 0.0060
	8/23/2017	< 0.020	**0.05**	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	**0.022**	**0.031**	< 0.0020	**130**	**0.0016 J**
	8/3/2018	< 0.020	**0.081**	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.026**	< 0.0020	**130**	< 0.0060
	8/23/2019	< 0.020	**0.057**	< 0.0060	**0.0045 J**	< 0.050	**0.0023 J**	**0.00013 J**	< 0.020	**0.032**	< 0.0020	**160**	< 0.0060
	8/10/2020	**0.00052 J**	**0.028**	<0.0014	<0.00050	**0.0073**	**0.0031 J**	<0.00012	<0.00050	**0.028**	<0.00037	**120**	**0.0011574**
	8/20/2021	<0.0010	**0.019**	<0.0060	<0.00050	**0.0019**	<0.0050	<0.00020	<0.0010	**0.017**	<0.0020	**410**	<0.0010
	8/4/2022	<0.0050	**0.032**	<0.0060	<0.00050	**0.0067**	**0.0040 J**	<0.00020	**0.00039 J**	**0.031**	<0.0020	**200**	**0.0010**
MW-68	8/16/2011	<0.02	**0.065**	<0.006	<0.005	<0.05	<0.005	<0.0002	<0.0010	**0.026**	<0.002	**100**	<0.006
	8/15/2012	<0.02	**0.065**	<0.006	<0.005	<0.05	<0.005	<0.0002	<0.001	**0.022**	<0.002	**88**	<0.006
	8/15/2013	< 0.020	**0.039**	< 0.0060	< 0.0050	< 0.050	< 0.025	< 0.00020	< 0.0010	**0.019**	< 0.0020	**90**	**0.004**
	8/19/2014	< 0.020	**0.16**	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	< 0.020	< 0.0020	**90**	< 0.0060
	8/19/2015	< 0.020	**0.038**	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.022**	< 0.0020	**93**	< 0.0060
	8/24/2016	< 0.020	**0.28**	**0.012**	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.029**	< 0.0020	**90**	< 0.0060
	8/23/2017	< 0.050	**0.053**	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.023**	< 0.0020	**100**	< 0.0060
	8/3/2018	< 0.020	**0.038**	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.027**	< 0.0020	**130**	< 0.0060
	8/23/2019	< 0.020	**0.15**	**0.0049 J**	< 0.0050	< 0.050	**0.0011 J**	**0.00015 J**	< 0.020	**0.019 J**	< 0.0020	**100**	< 0.0060
	8/10/2020	**0.00080 J**	**0.016**	<0.0014	<0.00050	**0.0047**	**0.0019 J**	<0.00012	<0.0025	**0.016 J**	<0.00037	**80**	<0.0025
	8/19/2021	**0.011**	**0.021**	<0.0060	<0.00050	**0.0025**	<0.0050	<0.00020	<0.0010	**0.021**	<0.0020	**66**	**0.0011**

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TABLE 6E
RCRA WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Copper (mg/L)
Screening Source		Total Metals - NMAC 20.6.2							Dissolved Metals - NMAC 20.6.2				
Screening Levels		0.01	2.0	0.05	0.015	0.05	0.05	0.002	0.01	2.0	0.005	-	1.0
MW-68	8/3/2022	**0.00078 J**	**0.031**	<0.0060	<0.00050	<0.0010	<0.0050	<0.00020	**0.00087 J**	**0.030**	<0.0020	**110**	**0.0015**
**MW-69	8/19/2020	---	---	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Well Dry - Could Not Sample											
MW-70	8/19/2015	< 0.020	**0.023**	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020	< 0.020	**0.024**	< 0.0020	**640**	< 0.0060
	8/24/2016	---	---	---	---	---	---	---	---	---	---	---	---
	8/23/2017	< 0.25	**0.19**	**0.0086**	< 0.0050	< 0.050	< 0.0050	< 0.00020	**0.028**	**0.016 J**	< 0.0020	**620**	< 0.0060
	8/8/2018	<0.020	**0.23**	**0.011**	< 0.0050	< 0.050	**0.0044 J**	**0.00010 J**	<0.020	**0.014 J**	< 0.0020	**560**	< 0.0060
	8/23/2019	<0.020	**0.15**	<0.0060	< 0.0050	< 0.050	**0.0051**	**0.00012 J**	<0.020	**0.013 J**	< 0.0020	**610**	**0.0037 J**
	8/12/2020	<0.0025	**0.028**	<0.0014	<0.0025	<0.0025	**0.0076**	<0.00012	<0.0025	**0.018 J**	<0.00037	**560**	**0.0034 J**
	8/18/2021	**0.0046**	**0.017**	<0.0060	<0.00050	<0.0010	<0.0050	<0.00020	<0.0050	**0.016**	<0.0020	**550**	<0.0010
	8/2/2022	Insufficient Water to Collect Sample											
MW-71	8/1/2022	FPP - Could Not Sample											
MW-72	8/1/2022	FPP - Could Not Sample											
MW-73	8/19/2021	<0.0050	**4.8**	<0.0060	**0.0026**	<0.0050	<0.0050	<0.00020	**0.0023**	**5.5**	<0.0020	**92**	<0.0010
	8/1/2022	**0.0034**	**4.8**	<0.0060	**0.0029**	**0.00069 J**	<0.0050	<0.00020	**0.0021**	**4.7**	<0.0020	**93**	<0.0010
MW-74	8/19/2021	<0.0050	**1.8**	<0.0060	**0.0065**	<0.0050	<0.0050	<0.00020	**0.0018**	**2.0**	<0.0020	**180**	<0.0010
	8/1/2022	Sheen Observed - Could Not Sample											
MW-75	8/18/2021	<0.0050	**1.3**	<0.0060	<0.0025	<0.0050	<0.0050	<0.00020	**0.0029**	**1.7**	<0.0020	**120**	<0.0010
	8/18/2021	<0.0050	**1.6**	<0.0060	<0.0025	<0.0050	<0.0050	<0.00020	**0.0030**	**1.7**	<0.0020	**95**	<0.0010
	8/1/2022	Sheen Observed - Could Not Sample											
MW-76	8/18/2021	<0.0020	**2.9**	<0.0060	**0.00064**	<0.0010	<0.0050	<0.00020	**0.0017**	**2.8**	<0.0020	**69**	<0.0010
	8/1/2022	**0.0027**	**3.3**	<0.0060	**0.00047 J**	**0.00051 J**	<0.0050	<0.00020	**0.0022**	**3.0**	<0.0020	**65**	**0.00096 J**
MW-77	8/1/2022	FPP - Could Not Sample											
MW-78	8/3/2022	**0.0018**	**0.081**	**0.0039 J**	**0.0031**	**0.038**	**0.0023 J**	**0.000094 J**	**0.00092 J**	**0.021**	<0.0020	**240**	**0.0015**
	8/3/2022	**0.0032**	**0.083**	**0.0056 J**	**0.0032**	**0.035**	**0.0025 J**	**0.000097 J**	**0.00081 J**	**0.021**	<0.0020	**240**	**0.0017**

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

FPP = Free Product Present

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TABLE 6F
RCRA WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
Screening Source		Dissolved Metals - NMAC 20.6.2									
Screening Levels		1.0	0.015	-	0.2	-	0.05	0.05	-	0.03	10.0
**MW-50	8/7/2010	0.035	<0.005	14	3.7	1.9	<0.05	<0.005	42	<0.001	<0.05
	8/16/2011	<0.02	<0.005	12	2.3	1.8	0.001	<0.005	40	<0.001	0.25
	8/15/2012	<0.02	<0.005	13	2.2	1.6	0.001	<0.005	39	<0.001	0.07
	8/15/2013	< 0.020	< 0.0010	14	2.3	2.1	< 0.0010	< 0.025	37	< 0.0010	< 0.010
	8/19/2014	---	---	---	---	---	---	---	---	---	---
	8/19/2015	---	---	---	---	---	---	---	---	---	---
	8/23/2016	0.2	< 0.0050	14	1.6	1.9	< 0.050	< 0.0050	41	< 0.10	0.021
	8/23/2020	---	---	---	---	---	---	---	---	---	---
MW-51	8/7/2010	0.2	<0.005	15	2	2	<0.05	<0.005	48	0.0018	<0.05
	8/16/2011	<0.02	<0.005	14	1.3	2	0.001	<0.005	51	0.0023	0.16
	8/15/2012	<0.02	< 0.001	12	0.99	1.8	< 0.001	< 0.005	43	0.0013	0.043
	8/15/2013	< 0.020	< 0.0010	13	1.0	2.1	< 0.0010	< 0.025	43	0.0015	0.011
	8/19/2014	< 0.020	< 0.0050	15	1.2	1.9	< 0.050	< 0.0050	55	< 0.10	< 0.020
	8/19/2015	0.041	< 0.0050	13	0.77	1.7	< 0.050	< 0.0050	47	< 0.10	< 0.020
	8/23/2016	0.15	< 0.0050	18	0.95	1.8	< 0.050	< 0.0050	51	< 0.10	0.031
	8/23/2017	0.037	< 0.0050	14	2.4	1.7	< 0.050	< 0.0050	40	< 0.10	0.016 J
	8/3/2018	0.075	0.0086	12	2.5	1.5	< 0.050	< 0.0050	37	< 0.10	< 0.020
	8/1/2019	---	---	---	---	---	---	---	---	---	---
	8/23/2020	---	---	---	---	---	---	---	---	---	---
	8/16/2021	<0.020	<0.00050	15	1.9	1.6	<0.0010	<0.0050	37	---	<0.010
	8/3/2022	0.013 J	<0.00050	16	2.6	1.9	0.0013	0.0021 J	41	0.00066	0.0063 J
MW-53	8/7/2010	0.13	<0.005	48	0.96	5.3	<0.05	<0.005	700	0.0108	<0.05
	8/16/2011	0.036	<0.005	51	0.5	4.8	0.02	<0.005	750	0.015	0.17
	8/15/2012	< 0.02	< 0.001	54	0.520	4.7	0.010	<0.005	780	0.016	0.073
	8/15/2013	< 0.020	< 0.0010	55	0.18	5.9	0.021	< 0.025	740	0.018	< 0.010
	8/19/2014	0.029	< 0.0050	59	0.10	5.1	< 0.050	< 0.0050	750	< 0.10	< 0.020
	8/19/2015	0.21	< 0.0050	54	0.41	5.3	< 0.050	< 0.0050	800	< 0.10	0.028
	8/24/2016	< 0.020	< 0.0050	56	0.61	5	< 0.050	< 0.0050	780	< 0.10	0.025
	8/23/2017	0.0065 J	< 0.0050	54	0.57	4.6	< 0.050	< 0.0050	770	< 0.10	0.026
	8/3/2018	<0.020	< 0.0050	52	0.48	4.1	< 0.050	0.011	770	< 0.10	<0.020
	8/23/2019	<0.020	< 0.0050	50	0.30	4.4	< 0.050	0.0043 J	720	< 0.10	0.022
	8/7/2020	<0.0080	<0.0025	70	0.0017 J	4.9	0.05559	0.0058	780	0.010041	0.026
	8/18/2021	<0.20	<0.00050	58	0.085	5.2	0.060	<0.0050	730	---	<0.010
	8/18/2021	<0.020	<0.0025	57	0.066	4.8	0.059	<0.0050	740	---	<0.010
	8/2/2022	0.010 J	<0.0025	56	0.032	4.3	0.046	0.0062	810	0.011	0.0084 J
**MW-54	8/20/2020	---	---	---	---	---	---	---	---	---	---
	8/2/2022	Sheen Observed - Could Not Sample									
**MW-55	8/7/2010	12	<0.005	64	6.8	11	<0.05	0.005	400	<0.001	<0.05
	8/1/2022	FPP - Could Not Sample									
MW-56	8/16/2011	9.8	0.0061	55	5.6	10	0.016	<0.005	500	<0.001	0.18
	8/23/2017	---	---	---	---	---	---	---	---	---	---

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Sample Location	Sample Date	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
Screening Source		Dissolved Metals - NMAC 20.6.2									
Screening Levels		1.0	0.015	-	0.2	-	0.05	0.05	-	0.03	10.0
MW-56	8/1/2018	---	---	---	---	---	---	---	---	---	---
	8/20/2019	---	---	---	---	---	---	---	---	---	---
	8/10/2020	32	<0.0025	45	1.8	2.9	<0.0025	<0.0016	490	<0.0025	0.040
	8/1/2022	FPP - Could Not Sample									
**MW-57	8/24/2016	2.6	< 0.0050	44	3.3	4.1	< 0.0050	< 0.050	410	< 0.10	0.081
	8/23/2017	---	---	---	---	---	---	---	---	---	---
	8/1/2018	---	---	---	---	---	---	---	---	---	---
	8/20/2020	---	---	---	---	---	---	---	---	---	---
	8/1/2022	FPP - Could Not Sample									
**MW-58	8/7/2010	8.9	0.0085	49	4.3	4.9	<0.05	<0.005	390	<0.001	<0.05
	8/1/2022	Sheen Observed - Could Not Sample									
MW-59	8/1/2010	2.7	<0.005	32	2.9	3.2	<0.25	<0.005	340	0.0023	<0.05
	8/16/2011	4.9	<0.005	43	3.4	2.7	0.0084	<0.005	370	0.0023	0.046
	8/15/2012	6.1	< 0.001	51	3.3	3.0	0.0061	<0.005	390	0.0024	0.10
	8/15/2013	7.3	< 0.0010	56	3.2	3.0	0.011	< 0.0050	380	0.0036	0.037
	8/19/2014	7.9	< 0.0050	69	3.0	3.4	< 0.050	< 0.0050	440	< 0.10	< 0.020
	8/19/2015	4.3	< 0.0050	69	1.9	3.6	< 0.050	< 0.0050	470	< 0.10	0.036
	8/22/2016	5.2	< 0.0050	56	1.9	3.7	< 0.050	< 0.0050	480	< 0.10	0.021
	8/22/2017	6.9	< 0.0050	49	1.8	2.8	< 0.050	< 0.0050	390	< 0.10	0.022
	8/3/2018	7.5	0.0090	50	1.5	3	0.11	< 0.0050	430	< 0.10	<0.020
	8/22/2019	7.6	< 0.0050	62	1.5	3.3	< 0.050	0.0020 J	480	< 0.10	0.025
	8/12/2020	0.22	<0.0025	83	0.75	4.1	<0.0025	0.0049 J	510	0.027	0.029
	8/24/2021	0.15	<0.010	71	0.72	4.1	<0.020	<0.0050	480	0.019	<0.010
	8/3/2022	0.019 J	<0.00050	110	0.77	4.5	0.0033 J	0.0062	630	0.030	0.0057 J
**MW-60	8/1/2010	<0.02	<0.005	69	0.33	2.9	<0.05	<0.005	320	0.0086	<0.05
	8/16/2011	<0.02	<0.005	75	0.048	3.5	0.023	<0.005	560	0.012	0.085
	8/23/2017	0.0048 J	< 0.0050	88	0.0011 J	4	< 0.050	< 0.0050	660	< 0.10	0.036
	8/1/2018	---	---	---	---	---	---	---	---	---	---
	8/19/2019	---	---	---	---	---	---	---	---	---	---
	8/11/2020	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Insufficient Water to Collect Sample									
**MW-61	8/11/2020	8.0	0.0026	66	5.4	1.7	<0.0025	<0.0016	67	0.0014	0.024
	8/24/2021	7.4	<0.010	72	1.9	2.8	<0.020	<0.0050	570	<0.010	<0.010
	8/1/2022	Well Could Not Be Accessed									
MW-62	8/1/2010	0.87	<0.005	37	1.2	10	<0.05	<0.005	1400	0.0066	<0.05
	8/16/2011	0.97	< 0.002	39	1.8	11	<0.006	<0.005	1400	0.0077	0.075
	8/16/2012	0.089	< 0.001	39	1.8	10	<0.005	<0.005	1500	0.0075	0.066
	8/15/2013	0.026	< 0.0010	38	1.7	9.1	< 0.010	< 0.0050	1400	0.008	< 0.010
	8/19/2014	< 0.020	< 0.0050	39	0.49	9.7	< 0.050	< 0.0050	1400	< 0.10	< 0.020
	8/19/2015	0.15	< 0.0050	38	1.4	9.5	< 0.050	< 0.0050	1500	< 0.10	0.028

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Screening Source		Dissolved Metals - NMAC 20.6.2									
Screening Levels		1.0	0.015	-	0.2	-	0.05	0.05	-	0.03	10.0
MW-62	8/22/2016	1.3	< 0.0050	38	1.2	10	< 0.050	< 0.0050	1600	< 0.10	0.051
	8/23/2017	0.0046 J	< 0.0050	38	1.8	9.1	< 0.050	< 0.0050	1400	< 0.10	0.02
	8/8/2018	0.015 J	< 0.0050	37	1.5	9	< 0.050	0.012	1400	< 0.10	<0.020
	8/23/2019	<0.020	< 0.0050	39	1.4	8.8	< 0.050	0.0058	1400	< 0.10	0.024
	8/12/2020	0.013 J	<0.0025	36	0.65	8.7	<0.0025	0.0076	1300	0.0040 J	0.042
	8/23/2021	<0.020	<0.0050	38	1.1	10	<0.010	<0.0050	1400	---	<0.010
	8/4/2022	0.021	<0.0025	39	1.0	8.8	<0.0050	0.0087	1500	0.0042	0.0056 J
MW-63	8/1/2010	<0.02	<0.005	150	3.7	5	<0.05	<0.005	660	0.056	<0.05
	8/16/2011	<0.02	<0.005	91	1.7	4.4	0.031	<0.005	570	0.041	0.15
	8/15/2012	<0.02	< 0.001	180	2.20	4.7	<0.05	<0.005	580	0.067	0.17
	8/15/2013	< 0.020	< 0.0010	180	1.5	4.9	0.057	< 0.0050	650	0.055	< 0.010
	8/19/2014	0.022	< 0.0050	180	1.4	5.7	< 0.050	< 0.0050	680	< 0.10	< 0.020
	8/19/2015	< 0.020	< 0.0050	130	0.81	4.6	< 0.050	< 0.0050	580	< 0.10	0.03
	8/22/2016	3.9	< 0.0050	99	0.73	4.1	< 0.050	< 0.0050	420	< 0.10	0.1
	8/22/2017	< 0.020	< 0.0050	110	0.5	3.7	< 0.050	< 0.0050	460	< 0.10	0.02
	8/8/2018	0.054	0.0059	110	0.48	3.7	< 0.050	0.0088	380	< 0.10	< 0.020
	8/22/2019	<0.020	<0.0050	180	0.55	4.5	< 0.050	0.0053	540	< 0.10	0.023
	8/11/2020	0.081	<0.0025	160	0.27	4.4	0.020	0.0043 J	550	0.048	0.026
	8/24/2021	<0.020	<0.010	180	0.42	5.4	0.030	<0.0050	570	0.049	<0.010
	8/2/2022	0.027	<0.0025	170	0.017	5.2	0.042	0.010	690	0.033	0.012
MW-64	8/1/2010	0.03	<0.005	67	0.013	4.9	<0.05	<0.005	780	0.0143	<0.05
	8/16/2011	<0.02	<0.005	72	<0.002	5	0.041	<0.005	750	0.017	0.062
	8/16/2012	0.029	<0.0010	75	< 0.0020	4.9	< 0.050	< 0.0050	890	0.016	0.096
	8/15/2013	0.038	< 0.0010	69	< 0.0020	4.5	0.029	< 0.0050	790	0.017	< 0.010
	8/19/2014	0.045	< 0.0050	69	< 0.0020	5.4	< 0.050	< 0.0050	840	< 0.10	< 0.020
	8/19/2015	< 0.020	< 0.0050	72	< 0.0020	5.1	< 0.050	< 0.0050	850	< 0.10	< 0.020
	8/22/2016	1.8	< 0.0050	78	0.037	5.5	< 0.050	< 0.0050	830	< 0.10	0.038
	8/22/2017	0.025	< 0.0050	73	0.0011 J	4.7	< 0.050	< 0.0050	830	< 0.10	0.028
	8/8/2018	0.057	< 0.0050	66	0.0015 J	4.5	< 0.050	0.012	800	< 0.10	< 0.020
	8/22/2019	0.027	< 0.0050	67	0.00036 J	4.4	< 0.050	0.0060	780	< 0.10	0.015
	8/12/2020	<0.0080	<0.0025	64	0.00048 J	3.6	0.021	0.012	570	0.017	0.035
	8/24/2021	<0.0060	<0.010	63	<0.0020	4.3	<0.020	0.0055	630	0.013	<0.010
	8/2/2022	0.15 J	<0.0025	45	12	2.4 J	0.025	<0.050	30	0.010	2.4
MW-65	8/1/2010	6.2	<0.005	56	3.5	3.8	<0.05	<0.005	490	0.0067	<0.05
	8/16/2011	4.1	<0.005	52	3.2	3.6	0.016	<0.005	530	0.0077	0.026
	8/15/2012	12	< 0.001	110	5.3	4.3	< 0.01	<0.005	860	0.010	0.052
	8/15/2013	8.9	< 0.0010	99	3.7	3.8	0.021	< 0.0050	700	0.0073	< 0.010
	8/19/2014	3.4	< 0.0050	73	2.7	4.3	< 0.050	< 0.0050	650	< 0.10	< 0.020
	8/19/2015	7	0.0055	97	1.8	3.6	< 0.050	< 0.0050	680	< 0.10	0.022
	8/22/2016	6.7	< 0.0050	110	2.7	4.1	< 0.050	< 0.0050	800	< 0.10	< 0.020

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Screening Source		Dissolved Metals - NMAC 20.6.2									
Screening Levels		1.0	0.015	-	0.2	-	0.05	0.05	-	0.03	10.0
MW-65	8/22/2017	7.1	< 0.0050	120	3.2	3.8	< 0.050	< 0.0050	740	< 0.10	0.12
	8/8/2018	5.3	< 0.0050	95	1.5	3.6	0.032	0.0045	550	< 0.10	<0.020
	8/22/2019	---	---	---	---	---	---	---	---	---	---
	8/11/2020	1.4	<0.0025	75	1.7	3.1	<0.0025	0.0025 J	510	<0.0025	0.018 J
	8/16/2021	Well Destroyed									
**MW-66	8/11/2020	0.067	<0.0025	200	0.82	5.7	<0.0025	0.0027 J	510	0.014	0.0061
	8/1/2022	FPP - Could Not Sample									
MW-67	8/16/2011	<0.02	<0.005	27	0.45	3.4	0.0035	<0.005	100	0.0083	0.074
	8/15/2012	<0.02	<0.001	33	0.170	3.3	0.0018	<0.005	90	0.0077	0.062
	8/15/2013	< 0.020	< 0.0010	23	0.068	3.4	0.0037	< 0.025	67	0.0064	< 0.010
	8/19/2014	< 0.020	< 0.0050	25	0.088	3.2	< 0.050	< 0.0050	55	< 0.10	< 0.020
	8/19/2015	< 0.020	< 0.0050	31	0.38	3	< 0.050	< 0.0050	74	< 0.10	0.025
	8/19/2016	0.29	< 0.0050	28	0.4	3.4	< 0.050	< 0.0050	79	< 0.10	< 0.020
	8/23/2017	< 0.020	< 0.0050	27	0.14	3.8	< 0.050	< 0.0050	68	< 0.10	0.023
	8/3/2018	< 0.020	< 0.0050	27	0.16	2.8	< 0.050	< 0.0050	80	< 0.10	< 0.020
	8/23/2019	< 0.020	< 0.0050	31	0.15	3.8	< 0.050	0.0020 J	72	< 0.10	0.044
	8/10/2020	<0.0080	<0.00050	28	0.00041 J	3.3	0.0065805	0.0030 J	190	0.017494	0.11
	8/20/2021	<0.020	<0.00050	99	0.97	4.6	0.0014	<0.0050	470	---	<0.010
	8/4/2022	<0.020	<0.00050	50	0.13	3.2	0.0077	0.0037 J	220	0.0088	0.0036 J
MW-68	8/16/2011	<0.02	<0.005	25	0.21	3.1	0.0048	<0.005	130	0.0052	0.27
	8/15/2012	<0.02	<0.001	22	0.120	3.0	0.0035	<0.005	110	0.0039	0.011
	8/15/2013	< 0.020	< 0.0010	22	0.045	3.5	0.0038	< 0.025	110	0.0057	< 0.010
	8/19/2014	0.031	< 0.0050	24	0.059	3	< 0.050	< 0.0050	120	< 0.10	< 0.020
	8/19/2015	< 0.020	< 0.0050	24	0.0045	2.6	< 0.050	< 0.0050	110	< 0.10	0.027
	8/24/2016	0.25	< 0.0050	21	0.06	2.7	< 0.050	< 0.0050	110	< 0.10	< 0.020
	8/23/2017	< 0.020	< 0.0050	25	0.0028	3.0	< 0.050	< 0.0050	110	< 0.10	0.026
	8/3/2018	< 0.020	< 0.0050	27	0.0041	2.8	< 0.050	< 0.0050	120	< 0.10	<0.020
	8/23/2019	< 0.020	< 0.0050	28	0.00059 J	2.7	< 0.050	0.0014 J	100	< 0.10	0.010 J
	8/10/2020	<0.0080	<0.00050	21	0.00055 J	2.2	0.0043868 J	0.0021 J	100	0.0044961	0.17
	8/19/2021	<0.020	<0.00050	15	0.010	2.3	0.0019	<0.0050	100	---	<0.010
	8/3/2022	<0.020	<0.00050	25	0.0088	2.3	0.0020	0.0015 J	96	0.0055	0.0056
**MW-69	8/19/2020	---	---	---	---	---	---	---	---	---	---
	8/1/2022	Well Dry - Could Not Sample									
MW-70	8/19/2015	8.5	< 0.0050	180	4.3	4.2	< 0.050	< 0.0050	730	< 0.10	0.028
	8/24/2016	---	---	---	---	---	---	---	---	---	---
	8/23/2017	25	< 0.0050	130	2.3	3.5	< 0.050	< 0.0050	580	< 0.10	0.024
	8/8/2018	9.6	< 0.0050	110	1.8	4.0	< 0.050	0.015	530	< 0.10	<0.020
	8/23/2019	5.3	< 0.0050	150	1.6	3.5	< 0.050	0.0071	610	< 0.10	0.017 J
	8/12/2020	1.8	<0.0025	160	1.8	4.1	<0.0025	0.012	590	0.017	0.037
	8/18/2021	6.2	<0.0025	150	1.6	3.7	<0.0050	<0.0050	570	---	<0.010

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Screening Source		**Dissolved Metals - NMAC 20.6.2**									
Screening Levels		**1.0**	**0.015**	**-**	**0.2**	**-**	**0.05**	**0.05**	**-**	**0.03**	**10.0**
MW-70	8/2/2022	Insufficient Water to Collect Sample									
MW-71	8/1/2022	FPP - Could Not Sample									
MW-72	8/1/2022	FPP - Could Not Sample									
MW-73	8/19/2021	**11**	**0.0014**	**45**	**0.59**	**5.2**	<0.0010	<0.0050	**400**	---	<0.010
	8/1/2022	**7**	**0.00076**	**45**	**0.48**	**4.9**	**0.00072 J**	<0.0050	**390**	<0.00050	**0.0061 J**
MW-74	8/19/2021	**7.6**	**0.0046**	**56**	**4.6**	**5.6**	<0.0010	<0.0050	**450**	---	<0.010
	8/1/2022	Sheen Observed - Could Not Sample									
MW-75	8/18/2021	**6.4**	<0.00050	**41**	**2.2**	<5.0	<0.0010	<0.0050	**530**	---	<0.010
	8/18/2021	**6.2**	<0.00050	**33**	**2.3**	**2.7**	<0.0010	<0.0050	**530**	---	<0.010
	8/1/2022	Sheen Observed - Could Not Sample									
MW-76	8/18/2021	**7.4**	<0.00050	**50**	**1.8**	**3.0**	<0.0010	<0.0050	**300**	---	<0.010
	8/1/2022	**8.0**	**0.00027 J**	**49**	**1.5**	**2.7**	**0.00041 J**	<0.0050	**260**	**0.00011 J**	**0.0065 J**
MW-77	8/1/2022	FPP - Could Not Sample									
MW-78	8/3/2022	<0.020	<0.00050	**50**	**0.053**	**4.1**	**0.047**	**0.0052**	**350**	**0.010**	**0.0040 J**
	8/3/2022	<0.020	<0.00050	**51**	**0.055**	**4.2**	**0.040**	**0.0048**	**360**	**0.010**	**0.0051 J**

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

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TABLE 7A
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San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (µg/L)	MTBE (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Isopropylbenzene (µg/L)
Screening Source		NMAC 20.6.2					NMED Soil Screening Guidance Table A-1 (Tap Water)			
Screening Levels		5	1000	700	620	100	11.4	35.1	1.17	447
CW 0+60	4/7/2010	**0.036**	<0.001	**0.0069**	**0.003**	<0.001	---	---	---	---
	8/7/2010	**0.25**	<0.001	**0.0039**	<0.003	<0.001	---	---	---	---
	4/13/2011	**0.019**	<0.001	**0.0016**	<0.003	<0.001	---	---	---	---
	8/15/2011	<0.001	<0.001	**0.003**	<0.002	<0.001	---	---	---	---
	4/13/2012	**0.014**	<0.001	**0.0028**	<0.002	<0.001	---	---	---	---
	8/8/2012	**0.0079**	<0.001	**0.0043**	<0.002	<0.001	---	---	---	---
	4/13/2013	**0.014**	<0.010	<0.010	<0.020	<0.010	---	---	---	---
	8/8/2013	**0.071**	<0.001	**0.0029**	<0.002	<0.001	---	---	---	---
	4/14/2014	**0.0056**	<0.001	<0.001	<0.0015	<0.001	---	---	---	---
	8/27/2014	**0.002**	<0.001	**0.0018**	<0.0015	<0.001	---	---	---	---
	4/21/2015	**1.6**	< 1.0	**1.7**	< 1.5	< 1.0	---	---	---	---
	8/27/2015	**1.2**	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---
	4/21/2016	**2.5**	< 1.0	**2.3**	< 1.5	< 1.0	---	---	---	---
	8/27/2016	< 1.0	< 1.0	**1.8**	< 1.5	< 1.0	---	---	---	---
	4/21/2017	< 1.0	< 1.0	**3.1**	< 1.5	< 1.0	---	---	---	---
	8/28/2017	< 1.0	< 1.0	**3.5**	< 1.5	< 1.0	---	---	---	---
	4/18/2018	**1.2**	< 1.0	**3.7**	**1.5**	< 1.0	---	---	---	---
	8/9/2018	**0.7**	< 1.0	**1.8**	< 1.5	< 1.0	---	---	---	---
	4/3/2019	**2.1**	< 1.0	**4.0**	**1.8**	**1.2**	---	---	---	---
	8/26/2019	**1.0**	< 1.0	**4.1**	**1.3**	**1.1**	---	---	---	---
	8/6/2020	**0.38**	<0.20	**1.6**	<0.55	**0.57**	---	---	---	---
	4/27/2021	<1.0	<1.0	**2.3**	<1.5	**1.8**	---	---	---	---
	8/19/2021	<2.0	<2.0	<2.0	<1.5	<2.0	**21**	**37**	**110**	**110**
	4/13/2022	**0.72 J**	<1.0	**2.7**	**0.60 J**	**1.6**	**23**	**46**	**130**	**130**
	8/4/2022	**0.74 J**	<1.0	**0.99 J**	**0.94 J**	**0.91 J**	**30**	**51**	**160**	**130**
CW 25+95	4/7/2010	**22**	**9**	**2**	**7.4**	<0.001	---	---	---	---
	8/7/2010	**14**	**5.7**	**1.8**	**4.2**	<0.096	---	---	---	---
	4/13/2011	**6.7**	**0.16**	**0.8**	**0.32**	<0.005	---	---	---	---
	8/15/2011	**3.6**	**0.16**	**0.58**	**0.33**	<0.002	---	---	---	---
	4/13/2012	**2.2**	**0.022**	**0.41**	**0.042**	<0.010	---	---	---	---
	8/12/2012	**2.0**	**0.013**	**0.120**	**0.023**	<0.010	---	---	---	---
	4/13/2013	**0.81**	<0.010	**0.045**	<0.010	<0.020	---	---	---	---
	8/8/2013	**0.210**	<0.010	<0.010	<0.010	<0.020	---	---	---	---
	4/15/2014	**0.280**	<0.010	<0.010	<0.0015	<0.010	---	---	---	---
	8/27/2014	**0.33**	<0.050	<0.050	<0.075	<0.050	---	---	---	---
	4/21/2015	**210**	<5.0	<5.0	<7.5	<5.0	---	---	---	---
	8/27/2015	**110**	<5.0	<5.0	<7.5	<5.0	---	---	---	---
	4/21/2016	**3.9**	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---

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TABLE 7A
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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (µg/L)	MTBE (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Isopropylbenzene (µg/L)
Screening Source		**NMAC 20.6.2**					**NMED Soil Screening Guidance Table A-1 (Tap Water)**			
Screening Levels		**5**	**1000**	**700**	**620**	**100**	**11.4**	**35.1**	**1.17**	**447**
CW 25+95	8/17/2016	**7.1**	<5.0	<5.0	<7.5	<5.0	---	---	---	---
	4/21/2017	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---
	8/28/2017	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---
	4/18/2018	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---
	8/10/2018	< 1.0	< 1.0	< 1.0	< 1.5	**0.89**	**---**	**---**	**---**	**---**
	4/5/2019	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---
	8/27/2019	< 1.0	< 1.0	< 1.0	< 1.5	**0.67**	**---**	**---**	**---**	**---**
	8/6/2020	**17**	**0.22**	**9.4**	<0.55	<0.39	---	---	---	---
	4/27/2021	<1.0	<1.0	<1.0	<1.5	<1.0	---	---	---	---
	8/19/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<1.0
	4/13/2022	<1.0	<1.0	<1.0	<1.5	**0.41 J**	<4.0	<4.0	<2.0	<1.0
	8/3/2022	<1.0	<1.0	<1.0	<1.5	**1.2**	<4.0	<4.0	<2.0	<1.0
OW 0+60	4/7/2010	**0.029**	**0.014**	**0.31**	**5.7**	<0.01	---	---	---	---
	8/8/2014	<0.001	< 0.001	< 0.001	<0.0015	< 0.001	---	---	---	---
	4/21/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---
	8/27/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---
	4/21/2016	---	---	---	---	---	---	---	---	---
	8/17/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---
	4/21/2017	**0.07**	**0.43**	**0.58**	**2.5**	< 1.0	---	---	---	---
	8/6/2020	---	---	---	---	---	---	---	---	---
	4/11/2022	Insufficient Water to Collect Sample								
	8/4/2022	<1.0	<1.0	<1.0	<1.5	**0.50 J**	<4.0	<4.0	**0.88 J**	<1.0
OW 1+50	4/14/2016	<5.0	<5.0	<5.0	<7.5	<5.0	---	---	---	---
	8/17/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---
	4/21/2017	< 1.0	< 1.0	< 1.0	**2.5**	< 1.0	---	---	---	---
	8/6/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/11/2022	Insufficient Water to Collect Sample								
	8/4/2022	Insufficient Water to Collect Sample								
OW 3+85	4/7/2010	0.018	<0.01	**0.32**	**0.47**	<0.01	---	---	---	---
	8/7/2010	**0.007**	<0.005	**0.16**	**0.23**	<0.005	---	---	---	---
	4/13/2011	---	---	---	---	---	---	---	---	---
	8/15/2011	---	---	---	---	---	---	---	---	---
	4/13/2012	---	---	---	---	---	---	---	---	---
	8/8/2012	---	---	---	---	---	---	---	---	---
	4/13/2013	<0.010	<0.010	**0.039**	<0.020	<0.010	---	---	---	---
	8/8/2013	---	---	---	---	---	---	---	---	---
	4/15/2014	<0.010	<0.010	**0.025**	<0.0015	<0.010	---	---	---	---

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Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (µg/L)	MTBE (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Isopropylbenzene (µg/L)
Screening Source		**NMAC 20.6.2**					**NMED Soil Screening Guidance Table A-1 (Tap Water)**			
Screening Levels		**5**	**1000**	**700**	**620**	**100**	**11.4**	**35.1**	**1.17**	**447**
OW 3+85	8/8/2014	---	---	---	---	---	---	---	---	---
	4/14/2015	---	---	---	---	---	---	---	---	---
	8/27/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---
	4/14/2016	< 1.0	< 1.0	**1.1**	< 1.5	< 1.0	---	---	---	---
	8/17/2016	< 1.0	< 1.0	**1.1**	< 1.5	< 1.0	---	---	---	---
	4/21/2017	< 1.0	< 1.0	**0.67**	< 1.5	< 1.0	---	---	---	---
	8/17/2017	---	---	---	---	---	---	---	---	---
	4/19/2018	< 0.001	< 0.001	< 0.001	< 0.015	< 0.001	---	---	---	---
	8/9/2018	---	---	---	---	---	---	---	---	---
	4/3/2019	---	---	---	---	---	---	---	---	---
	8/26/2019	---	---	---	---	---	---	---	---	---
	8/6/2020	---	---	---	---	---	---	---	---	---
	4/13/2022	Sheen Observed - Could Not Sample								
	8/4/2022	Sheen Observed - Could Not Sample								
OW 5+50	4/21/2017	< 1.0	< 1.0	< 1.0	< 1.5	**0.39**	---	---	---	---
	8/6/2020	---	---	---	---	---	---	---	---	---
	4/11/2022	Well Dry - Could Not Sample								
	8/4/2022	Well Dry - Could Not Sample								
OW 6+70	8/6/2020	---	---	---	---	---	---	---	---	---
	4/11/2022	Insufficient Water to Collect Sample								
	8/4/2022	Well Dry - Could Not Sample								
OW 8+10	8/17/2016	< 1.0	< 1.0	< 1.0	< 1.5	**4.7**	---	---	---	---
	4/21/2017	< 1.0	< 1.0	< 1.0	< 1.5	**1.8**	---	---	---	---
	8/17/2017	< 1.0	< 1.0	< 1.0	< 1.5	**1.2**	---	---	---	---
	4/19/2018	---	---	---	---	---	---	---	---	---
	8/9/2018	---	---	---	---	---	---	---	---	---
	4/5/2019	< 1.0	< 1.0	< 1.0	< 1.5	**5.4**	---	---	---	---
	8/27/2019	< 1.0	< 1.0	< 1.0	< 1.5	**1.6**	---	---	---	---
	8/6/2020	---	---	---	---	---	---	---	---	---
	4/11/2022	Well Dry - Could Not Sample								
	8/4/2022	Well Dry - Could Not Sample								
OW 11+15	4/13/2011	---	---	---	---	---	---	---	---	---
	8/15/2011	**0.22**	<0.01	<0.01	<0.03	**0.69**	---	---	---	---
	8/8/2014	**0.84**	< 0.010	< 0.010	< 0.015	**0.87**	---	---	---	---
	4/21/2015	**1.7**	<5.0	<5.0	<7.5	**640**	---	---	---	---
	8/27/2015	**2.5**	<2.0	<2.0	<3.0	**480**	---	---	---	---
	4/21/2016	**3.8**	<2.0	<2.0	<3.0	**220**	---	---	---	---

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Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (µg/L)	MTBE (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Isopropylbenzene (µg/L)
Screening Source		**NMAC 20.6.2**					**NMED Soil Screening Guidance Table A-1 (Tap Water)**			
Screening Levels		**5**	**1000**	**700**	**620**	**100**	**11.4**	**35.1**	**1.17**	**447**
OW 11+15	8/17/2016	**3.9**	<2.0	<2.0	<3.0	**310**	---	---	---	---
	4/21/2017	**4.4**	**1.4**	**9.6**	<3.0	**320**	---	---	---	---
	8/6/2020	---	---	---	---	---	---	---	---	---
	4/11/2022	Sheen Observed - Could Not Sample								
	8/4/2022	Sheen Observed - Could Not Sample								
OW 14+10	8/6/2020	---	---	---	---	---	---	---	---	---
	4/11/2022	Well Dry - Could Not Sample								
	8/4/2022	Well Dry - Could Not Sample								
OW 16+60	4/7/2010	**0.49**	<0.005	**0.43**	**0.14**	**1.5**	---	---	---	---
	8/7/2010	**0.27**	<0.01	**0.15**	**0.066**	**0.84**	---	---	---	---
	4/13/2011	**0.079**	<0.010	**0.044**	<0.003	**1.1**	---	---	---	---
	8/15/2011	**0.082**	<0.01	**0.045**	**0.058**	**0.81**	---	---	---	---
	4/13/2012	**0.022**	<0.01	**0.026**	<0.02	**0.530**	---	---	---	---
	8/12/2012	**0.017**	<0.01	**0.027**	<0.02	**0.610**	---	---	---	---
	4/13/2013	<0.01	<0.01	**0.014**	<0.02	**0.81**	---	---	---	---
	8/8/2013	<0.010	<0.010	**0.011**	<0.02	**0.70**	---	---	---	---
	4/15/2014	<0.002	<0.002	**0.082**	<0.003	**0.660**	---	---	---	---
	8/8/2014	<0.00 5	<0.00 5	**0.0056**	<0.0 75	**0.73**	---	---	---	---
	4/21/2015	< 1.0	< 1.0	< 1.0	< 1.5	**460**	---	---	---	---
	8/27/2015	< 1.0	< 1.0	**1.7**	< 1.5	**410**	---	---	---	---
	4/21/2016	< 1.0	< 1.0	< 1.0	< 1.5	**280**	---	---	---	---
	8/17/2016	< 1.0	< 1.0	< 1.0	< 1.5	**410**	---	---	---	---
	4/21/2017	**0.084**	< 1.0	**1.1**	**0.48**	**390**	---	---	---	---
	8/6/2020	<0.23	<0.20	<0.21	<0.55	**180**	---	---	---	---
	4/27/2021	<5.0	<5.0	<5.0	<7.5	**240**	---	---	---	---
	8/19/2021	---	---	---	---	---	---	---	---	---
	4/13/2022	Insufficient Water to Collect Sample								
	8/4/2022	<1.0	<1.0	<1.0	**0.85 J**	**370**	<4.0	<4.0	**1.4 J**	**4.7**
OW 22+00	4/13/2012	<0.001	<0.001	<0.001	<0.002	**0.051**	---	---	---	---
	8/8/2012	---	---	---	---	---	---	---	---	---
	4/13/2013	<0.001	<0.001	<0.001	<0.002	**0.023**	---	---	---	---
	8/8/2013	<0.001	<0.001	<0.001	<0.002	**0.02**	---	---	---	---
	4/13/2014	<0.001	<0.001	<0.001	<0.0015	<0.001	---	---	---	---
	8/8/2014	<0.001	<0.001	<0.001	<0.0015	**0.0017**	---	---	---	---
	4/21/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---
	8/27/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---
	4/21/2016	< 1.0	< 1.0	< 1.0	< 1.5	**18**	---	---	---	---

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Screening Source		NMAC 20.6.2					NMED Soil Screening Guidance Table A-1 (Tap Water)			
Screening Levels		5	1000	700	620	100	11.4	35.1	1.17	447
OW 22+00	8/17/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---
	4/21/2017	< 1.0	< 1.0	< 1.0	< 1.5	**0.29**	---	---	---	---
	8/17/2017	< 1.0	< 1.0	< 1.0	< 1.5	**5.7**	---	---	---	---
	4/20/2018	< 1.0	< 1.0	< 1.0	< 1.5	**5.9**	---	---	---	---
	8/9/2018	---	---	---	---	---	---	---	---	---
	4/5/2019	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---
	8/27/2019	< 1.0	< 1.0	< 1.0	< 1.5	**1.2**	---	---	---	---
	8/7/2020	<0.23	<0.20	<0.21	<0.55	**2.4**	---	---	---	---
	4/27/2021	<1.0	<1.0	<1.0	<1.5	<1.0	---	---	---	---
	8/19/2021	---	---	---	---	---	---	---	---	---
	4/13/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<1.0
	8/3/2022	<1.0	<1.0	<1.0	<1.5	**1.0**	<4.0	<4.0	<2.0	<1.0
	8/3/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<1.0
OW 23+10	4/7/2010	**0.081**	<0.005	<0.005	<0.015	<0.005	---	---	---	---
	8/7/2010	**2.5**	<0.005	**0.028**	<0.015	<0.005	---	---	---	---
	4/13/2011	<0.001	<0.001	<0.001	<0.003	**0.0015**	---	---	---	---
	8/15/2011	<0.001	<0.001	<0.001	<0.002	**0.0032**	---	---	---	---
	4/13/2012	<0.001	<0.001	<0.001	<0.002	<0.001	---	---	---	---
	8/12/2012	<0.001	<0.001	<0.001	<0.002	**0.002**	---	---	---	---
	4/13/2013	<0.001	<0.001	<0.001	<0.002	<0.001	---	---	---	---
	8/8/2013	<0.001	<0.001	<0.001	<0.002	**0.001**	---	---	---	---
	4/15/2014	<0.001	<0.001	<0.001	<0.0015	<0.001	---	---	---	---
	8/8/2014	<0.001	<0.001	<0.001	<0.0015	<0.001	---	---	---	---
	4/21/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---
	8/27/2015	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---
	4/21/2016	< 1.0	< 1.0	< 1.0	< 1.5	**12**	---	---	---	---
	8/17/2016	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	---	---	---	---
	4/21/2017	< 1.0	< 1.0	< 1.0	< 1.5	**1.4**	---	---	---	---
	8/17/2017	---	---	---	---	---	---	---	---	---
	4/19/2018	---	---	---	---	---	---	---	---	---
	8/10/2018	< 1.0	< 1.0	< 1.0	< 1.5	**0.45**	---	---	---	---
	4/4/2019	---	---	---	---	---	---	---	---	---
	8/26/2019	---	---	---	---	---	---	---	---	---
	8/7/2020	<0.23	<0.20	<0.21	<0.55	<0.39	---	---	---	---
	4/13/2022	Insufficient Water to Collect Sample								
	8/3/2022	<1.0	<1.0	<1.0	**0.63 J**	**0.62 J**	<4.0	<4.0	<2.0	<1.0

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TABLE 7A
COLLECTION AND OBSERVATION WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (µg/L)	MTBE (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Isopropylbenzene (µg/L)
Screening Source		**NMAC 20.6.2**					**NMED Soil Screening Guidance Table A-1 (Tap Water)**			
Screening Levels		**5**	**1000**	**700**	**620**	**100**	**11.4**	**35.1**	**1.17**	**447**
OW 23+90	4/13/2012	<0.001	<0.001	<0.001	<0.002	<0.001	---	---	---	---
	8/12/2012	<0.001	<0.001	<0.001	<0.002	<0.001	---	---	---	---
	4/13/2013	**0.0012**	<0.001	<0.001	<0.002	<0.001	---	---	---	---
	8/8/2013	<0.001	<0.001	<0.001	<0.002	<0.001	---	---	---	---
	4/13/2014	<0.001	<0.001	<0.001	<0.0015	<0.001	---	---	---	---
	8/8/2014	<0.001	<0.001	<0.001	<0.0015	<0.001	---	---	---	---
	4/21/2015	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	---	---	---	---
	8/27/2015	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	---	---	---	---
	4/21/2016	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	---	---	---	---
	8/17/2016	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	---	---	---	---
	4/21/2017	< 1.0	< 1.0	< 1.0	< 1.5	**0.40**	**---**	**---**	**---**	**---**
	8/17/2017	---	---	---	---	---	---	---	---	---
	4/18/2018	---	---	---	---	---	---	---	---	---
	8/9/2018	---	---	---	---	---	---	---	---	---
	4/5/2019	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	---	---	---	---
	8/26/2019	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	---	---	---	---
	8/7/2020	<0.23	<0.20	<0.21	<0.55	<0.39	---	---	---	---
	4/11/2022	Well Dry - Could Not Sample								
	8/4/2022	Well Dry - Could Not Sample								
OW 25+70	4/13/2011	**4.4**	<0.1	**0.3**	<0.3	<0.1	---	---	---	---
	8/15/2011	**0.11**	<0.020	<0.020	<0.040	<0.020	---	---	---	---
	4/13/2012	<0.001	<0.001	<0.001	<0.002	<0.001	---	---	---	---
	8/12/2012	<0.001	<0.001	<0.001	<0.002	<0.001	---	---	---	---
	4/13/2013	<0.001	<0.001	<0.001	<0.002	<0.001	---	---	---	---
	8/8/2013	<0.001	<0.001	<0.001	<0.002	<0.001	---	---	---	---
	4/13/2014	<0.001	<0.001	<0.001	<0.0015	<0.001	---	---	---	---
	8/8/2014	<0.001	<0.001	<0.001	<0.0015	<0.001	---	---	---	---
	4/21/2015	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	---	---	---	---
	8/27/2015	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	---	---	---	---
	4/21/2016	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	---	---	---	---
	8/17/2016	<1.0	<1.0	<1.0	**2.6**	<1.0	---	---	---	---
	4/21/2017	< 1.0	< 1.0	< 1.0	< 1.5	**2.7**	**---**	**---**	**---**	**---**
	8/28/2017	< 1.0	< 1.0	< 1.0	< 1.5	**1.4**	**---**	**---**	**---**	**---**
	4/19/2018	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	---	---	---	---
	8/9/2018	< 1.0	< 1.0	< 1.0	< 1.5	**0.4**	**---**	**---**	**---**	**---**
	4/4/2019	<1.0	<1.0	**1.3**	< 1.5	<1.0	---	---	---	---
	8/26/2019	<1.0	<1.0	<1.0	**490**	<1.0	---	---	---	---

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TABLE 7A
COLLECTION AND OBSERVATION WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (µg/L)	MTBE (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Isopropylbenzene (µg/L)
Screening Source		**NMAC 20.6.2**					**NMED Soil Screening Guidance Table A-1 (Tap Water)**			
Screening Levels		**5**	**1000**	**700**	**620**	**100**	**11.4**	**35.1**	**1.17**	**447**
OW 25+70	8/6/2020	**4.6**	<0.20	<0.21	<0.55	<0.39	---	---	---	---
	4/27/2021	<1.0	<1.0	<1.0	<1.5	<1.0	---	---	---	---
	8/19/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<1.0
	4/13/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<1.0
	8/3/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<4.0	<2.0	<1.0

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

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TABLE 7B
COLLECTION AND OBSERVATION WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		EPA RSL Tap Water THQ = 0.1			NMED Soil Screening Guidance Table 6-4		
Screening Levels		66	200	69	0.0167	0.0101	0.0858
CW 0+60	4/7/2010	---	---	---	2.8	---	---
	8/7/2010	---	---	---	1.2	---	---
	4/13/2011	---	---	---	2.8	---	---
	8/15/2011	---	---	---	0.77	---	---
	4/13/2012	---	---	---	0.76	1.90	---
	8/8/2012	---	---	---	0.34	1.1	---
	4/13/2013	---	---	---	1.7	---	---
	8/8/2013	---	---	---	1.3	---	---
	4/14/2014	---	---	---	1.7	---	< 2.5
	8/27/2014	---	---	---	0.74	2.9	< 2.5
	4/21/2015	---	---	---	1.4	2.7	< 2.5
	8/27/2015	---	---	---	1.7	0.51	< 2.5
	4/21/2016	---	---	---	0.73	---	< 2.5
	8/27/2016	---	---	---	0.83	---	< 2.5
	4/21/2017	---	---	---	1.4	---	<2.5
	8/28/2017	---	---	---	1.2	3.2	< 2.5
	4/18/2018	---	---	---	1.2	---	< 2.5
	8/9/2018	---	---	---	0.33 J	---	<2.5
	4/3/2019	---	---	---	1.7	3.1	<2.5
	8/26/2019	---	---	---	0.70	---	<2.5
	8/6/2020	---	---	---	2.1	---	<0.60
	4/27/2021	---	---	---	1.7	3.4	<0.61
	8/19/2021	110	17	3.2	1.4	---	---
	4/13/2022	110	18	4.0	2.5	---	<0.080
	8/4/2022	120	20	4.1	2.6	1.9	<0.080
CW 25+95	4/7/2010	---	---	---	2.5	---	---
	8/7/2010	---	---	---	0.6	---	---
	4/13/2011	---	---	---	0.31	---	---
	8/15/2011	---	---	---	0.31	---	---
	4/13/2012	---	---	---	0.23	16	---
	8/12/2012	---	---	---	<0.2	6.1	---
	4/13/2013	---	---	---	0.23	---	---
	8/8/2013	---	---	---	<0.20	---	---
	4/15/2014	---	---	---	<0.20	---	< 2.5
	8/27/2014	---	---	---	0.24	0.80	< 2.5
	4/21/2015	---	---	---	<0.20	0.88	< 2.5
	8/27/2015	---	---	---	1.3	1.7	3.1
	4/21/2016	---	---	---	<0.20	---	< 2.5
	8/17/2016	---	---	---	<0.20	---	< 2.5
	4/21/2017	---	---	---	<0.20	---	<2.5
	8/28/2017	---	---	---	< 0.20	0.18	< 2.5
	4/18/2018	---	---	---	<0.40	---	<2.5
	8/10/2018	---	---	---	<0.40	0.44	<2.5
	4/5/2019	---	---	---	<0.40	0.36	<2.5
	8/27/2019	---	---	---	<0.40	---	<2.5
	8/6/2020	---	---	---	0.21	---	<0.60
	4/27/2021	---	---	---	<0.085	0.34	<0.60
	8/19/2021	<1.0	<1.0	<1.0	<1.0	---	---
	4/13/2022	<1.0	<1.0	<1.0	0.071	---	<0.080

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TABLE 7B
COLLECTION AND OBSERVATION WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		EPA RSL Tap Water THQ = 0.1			NMED Soil Screening Guidance Table 6-4		
Screening Levels		66	200	69	0.0167	0.0101	0.0858
CW 25+95	8/3/2022	<1.0	<1.0	<1.0	**1.1**	**0.096**	**0.73**
OW 0+60	4/7/2010	---	---	---	**1100**	---	---
	8/8/2014	---	---	---	**1.5**	**0.23**	< 2.5
	4/21/2015	---	---	---	**3.2**	**0.3**	< 2.5
	8/27/2015	---	---	---	**1.7**	**0.38**	< 2.5
	4/21/2016	---	---	---	---	---	---
	8/17/2016	---	---	---	**1.3**	**0.7**	< 2.5
	4/21/2017	---	---	---	**13**	**2.1**	< 5.0
	8/6/2020	---	---	---	---	---	---
	4/11/2022	Insufficient Water to Collect Sample					
	8/4/2022	<1.0	<1.0	**0.26 J**	**1.1**	**0.082**	**0.095**
OW 1+50	4/14/2016	---	---	---	**2.5**	**3.2**	<2.5
	8/17/2016	---	---	---	**4.2**	**2.9**	< 2.5
	4/21/2017	---	---	---	**13**	**2.1**	< 5.0
	8/6/2020	---	---	---	---	---	---
	4/11/2022	Insufficient Water to Collect Sample					
	8/4/2022	Insufficient Water to Collect Sample					
OW 3+85	4/7/2010	---	---	---	**860**	---	
	8/7/2010	---	---	---	**120**	---	---
	4/13/2011	---	---	---	---	---	---
	8/15/2011	---	---	---	---	---	---
	4/13/2012	---	---	---	---	---	---
	8/8/2012	---	---	---	---	---	---
	4/13/2013	---	---	---	**43**	---	---
	8/8/2013	---	---	---	---	---	---
	4/15/2014	---	---	---	**110**	**5.0**	<25
	8/8/2014	---	---	---	---	---	---
	4/14/2015	---	---	---	---	---	---
	8/27/2015	---	---	---	**12.0**	**4.7**	< 2.5
	4/14/2016	---	---	---	**56**	**14**	<25
	8/17/2016	---	---	---	**9**	**3.1**	<2.5
	4/21/2017	---	---	---	**75**	**4.2**	**7.2**
	8/17/2017	---	---	---	---	---	---
	4/19/2018	---	---	---	**7.9**	<2.5	**3.7**
	8/9/2018	---	---	---	---	---	---
	4/3/2019	---	---	---	---	---	---
	8/26/2019	---	---	---	---	---	---
	8/6/2020	---	---	---	---	---	---
	4/13/2022	Sheen Observed - Could Not Sample					
	8/4/2022	Sheen Observed - Could Not Sample					
OW 5+50	4/21/2017	---	---	---	**370**	**0.12**	**70**
	8/6/2020	---	---	---	---	---	---
	4/11/2022	Well Dry - Could Not Sample					
	8/4/2022	Well Dry - Could Not Sample					
OW 6+70	8/6/2020	---	---	---	---	---	---
	4/11/2022	Insufficient Water to Collect Sample					
	8/4/2022	Well Dry - Could Not Sample					

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TABLE 7B
COLLECTION AND OBSERVATION WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
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San Juan County, New Mexico

Sample Location	Sample Date	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		EPA RSL Tap Water THQ = 0.1			NMED Soil Screening Guidance Table 6-4		
Screening Levels		66	200	69	0.0167	0.0101	0.0858
OW 8+10	8/17/2016	---	---	---	< 0.20	<0.05	<2.5
	4/21/2017	---	---	---	5.7	<0.05	< 5.0
	8/17/2017	---	---	---	0.22	<0.05	< 5.0
	4/19/2018	---	---	---	---	---	---
	8/9/2018	---	---	---	---	---	---
	4/5/2019	---	---	---	0.44	<0.05	<2.5
	8/27/2019	---	---	---	< 0.40	< 0.050	<2.5
	8/6/2020	---	---	---	---	---	---
	4/11/2022	Well Dry - Could Not Sample					
	8/4/2022	Well Dry - Could Not Sample					
OW 11+15	4/13/2011	---	---	---	---	---	---
	8/15/2011	---	---	---	33	---	---
	8/8/2014	---	---	---	34	3.7	< 2.5
	4/21/2015	---	---	---	94	0.3	< 25
	8/27/2015	---	---	---	54	4.5	< 25
	4/21/2016	---	---	---	110	14	<25
	8/17/2016	---	---	---	540	12	<25
	4/21/2017	---	---	---	120	13	<50
	8/6/2020	---	---	---	---	---	---
	4/11/2022	Sheen Observed - Could Not Sample					
	8/4/2022	Sheen Observed - Could Not Sample					
OW 14+10	8/6/2020	---	---	---	---	---	---
	4/11/2022	Well Dry - Could Not Sample					
	8/4/2022	Well Dry - Could Not Sample					
OW 16+60	4/7/2010	---	---	---	280	---	---
	8/7/2010	---	---	---	11	---	---
	4/13/2011	---	---	---	65	---	---
	8/15/2011	---	---	---	20	---	---
	4/13/2012	---	---	---	22.0	---	---
	8/12/2012	---	---	---	110	---	---
	4/13/2013	---	---	---	3.5	---	---
	8/8/2013	---	---	---	7.5	---	---
	4/15/2014	---	---	---	40	2.9	< 2.5
	8/8/2014	---	---	---	35	2.7	< 2.5
	4/21/2015	---	---	---	12	1.8	< 2.5
	8/27/2015	---	---	---	5.0	1.00	< 2.5
	4/21/2016	---	---	---	28.0	1.8	<2.5
	8/17/2016	---	---	---	3.8	1.5	<2.5
	4/21/2017	---	---	---	86	1.5	< 5.0
	8/6/2020	---	---	---	3.8	0.45	<0.60
	4/27/2021	---	---	---	3.3	0.96	<0.60
	8/19/2021	---	---	---	---	---	---
	4/13/2022	Insufficient Water to Collect Sample					
	8/4/2022	0.62 J	5.9	2.3	3.7	0.81	0.16
OW 22+00	4/13/2012	---	---	---	<0.2	---	---
	8/8/2012	---	---	---	---	---	---
	4/13/2013	---	---	---	< 0.20	---	---
	8/8/2013	---	---	---	0.60	---	---
	4/13/2014	---	---	---	< 0.20	< 0.050	< 2.5

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TABLE 7B
COLLECTION AND OBSERVATION WELLS ANALYTICAL SUMMARY
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Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		EPA RSL Tap Water THQ = 0.1			NMED Soil Screening Guidance Table 6-4		
Screening Levels		66	200	69	0.0167	0.0101	0.0858
OW 22+00	8/8/2014	---	---	---	< 0.20	< 0.050	< 2.5
	4/21/2015	---	---	---	**0.24**	< 0.050	< 2.5
	8/27/2015	---	---	---	< 0.20	< 0.05	< 2.5
	4/21/2016	---	---	---	< 0.20	< 0.05	<2.5
	8/17/2016	---	---	---	< 0.20	<0.05	<2.5
	4/21/2017	---	---	---	**3.1**	< 0.050	< 5.0
	8/17/2017	---	---	---	< 0.20	<0.05	<2.5
	4/20/2018	---	---	---	< 0.40	<0.05	<2.5
	8/9/2018	---	---	---	---	---	---
	4/5/2019	---	---	---	<0.40	<0.05	<2.5
	8/27/2019	---	---	---	<0.40	<0.05	<2.5
	8/7/2020	---	---	---	**0.17**	<0.0080	<0.60
	4/27/2021	---	---	---	<0.050	**0.14**	<0.68
	8/19/2021	---	---	---	---	---	---
	4/13/2022	<1.0	<1.0	<1.0	**0.1**	<0.050	<0.080
	8/3/2022	<1.0	<1.0	<1.0	**0.14**	<0.050	<0.080
	8/3/2022	<1.0	<1.0	<1.0	**0.072**	<0.050	<0.080
OW 23+10	4/7/2010	---	---	---	**2.5**	---	---
	8/7/2010	---	---	---	**1.8**	---	---
	4/13/2011	---	---	---	**0.63**	---	---
	8/15/2011	---	---	---	<0.20	---	---
	4/13/2012	---	---	---	<0.2	---	---
	8/12/2012	---	---	---	<0.2	---	---
	4/13/2013	---	---	---	< 0.20	---	---
	8/8/2013	---	---	---	**1.2**	---	---
	4/15/2014	---	---	---	1	< 0.050	< 2.5
	8/8/2014	---	---	---	**2.1**	< 0.050	< 2.5
	4/21/2015	---	---	---	< 0.20	< 0.050	< 2.5
	8/27/2015	---	---	---	**0.52**	< 0.05	< 2.5
	4/21/2016	---	---	---	< 0.20	< 0.05	<2.5
	8/17/2016	---	---	---	**0.27**	<0.05	<2.5
	4/21/2017	---	---	---	**1.8**	**0.084**	< 5.0
	8/17/2017	---	---	---	---	---	---
	4/19/2018	---	---	---	---	---	---
	8/10/2018	---	---	---	<0.40	**0.12**	<2.5
	4/4/2019	---	---	---	---	---	---
	8/26/2019	---	---	---	---	---	---
	8/7/2020	---	---	---	**0.17**	**0.058**	<0.60
	4/13/2022	Insufficient Water to Collect Sample					
	8/3/2022	<1.0	<1.0	<1.0	**1.4**	**0.11**	**0.16**
OW 23+90	4/13/2012	---	---	---	<0.2	---	---
	8/12/2012	---	---	---	<0.2	---	---
	4/13/2013	---	---	---	**0.71**	---	---
	8/8/2013	---	---	---	**0.32**	---	---
	4/13/2014	---	---	---	< 0.20	<0.050	< 2.5
	8/8/2014	---	---	---	< 0.20	< 0.050	< 2.5
	4/21/2015	---	---	---	< 0.20	< 0.050	< 2.5
	8/27/2015	---	---	---	< 0.20	< 0.050	< 2.5
	4/21/2016	---	---	---	< 0.20	< 0.050	<2.5

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TABLE 7B
COLLECTION AND OBSERVATION WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		EPA RSL Tap Water THQ = 0.1			NMED Soil Screening Guidance Table 6-4		
Screening Levels		66	200	69	0.0167	0.0101	0.0858
OW 23+90	8/17/2016	---	---	---	< 0.20	< 0.050	<2.5
	4/21/2017	---	---	---	1.4	< 0.050	< 5.0
	8/17/2017	---	---	---	---	---	---
	4/18/2018	---	---	---	---	---	---
	8/9/2018	---	---	---	---	---	---
	4/5/2019	---	---	---	---	---	---
	8/26/2019	---	---	---	---	0.027 J	---
	8/7/2020	---	---	---	---	0.030	---
	4/11/2022	Well Dry - Could Not Sample					
	8/1/2022	Well Dry - Could Not Sample					
OW 25+70	4/13/2011	---	---	---	0.4	---	---
	8/15/2011	---	---	---	<0.20	---	---
	4/13/2012	---	---	---	<0.2	---	---
	8/12/2012	---	---	---	<0.2	---	---
	4/13/2013	---	---	---	<0.2	---	---
	8/8/2013	---	---	---	<0.20	---	---
	4/13/2014	---	---	---	< 0.20	0.2	< 2.5
	8/8/2014	---	---	---	< 0.20	0.14	< 2.5
	4/21/2015	---	---	---	< 0.20	0.12	< 2.5
	8/27/2015	---	---	---	< 0.20	< 0.05	< 2.5
	4/21/2016	---	---	---	< 0.20	0.13	<2.5
	8/17/2016	---	---	---	< 0.20	0.078	<2.5
	4/21/2017	---	---	---	< 1.0	0.10	<5
	8/28/2017	---	---	---	< 0.20	0.091	< 2.5
	4/19/2018	---	---	---	< 0.40	0.10	< 2.5
	8/9/2018	---	---	---	<0.40	0.14	<2.5
	4/4/2019	---	---	---	<0.40	0.12	<2.5
	8/26/2019	---	---	---	<0.40	0.052	<2.5
	8/6/2020	---	---	---	0.12	0.088	<0.60
	4/27/2021	---	---	---	<0.091	0.22	<0.64
	8/19/2021	<1.0	<1.0	<1.0	<1.0	0.099	---
	4/13/2022	<1.0	<1.0	<1.0	0.072	0.073	<0.080
	8/3/2022	<1.0	<1.0	<1.0	0.064 J	0.030	<0.080

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TABLE 7B
COLLECTION AND OBSERVATION WELLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	n-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics (mg/L)
Screening Source		**EPA RSL Tap Water THQ = 0.1**			**NMED Soil Screening Guidance Table 6-4**		
Screening Levels		**66**	**200**	**69**	**0.0167**	**0.0101**	**0.0858**

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

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TABLE 8A
OUTFALLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)
Screening Source		**NMAC 20.6.2**					**Anions - NMAC 20.6.2**						
Screening Levels		**5**	**1000**	**700**	**620**	**100**	**1.6**	**250**	**1**	**-**	**10**	**-**	**600**
East Outfall #2	4/13/2010	<0.001	<0.001	<0.001	<0.003	<0.0015	**0.58**	**11.0**	<0.10	<0.10	**1.40**	<0.50	**110.00**
	8/7/2010	<0.001	<0.001	<0.001	<0.003	<0.0015	**0.57**	**11.00**	<0.10	**0.21**	**1.40**	<0.50	**76.00**
	4/12/2011	<0.001	<0.001	<0.001	<0.002	<0.001	**0.57**	**11.00**	<0.10	**0.21**	**1.40**	<0.50	**76.00**
	8/16/2011	<0.001	<0.001	<0.001	<0.003	<0.0015	<0.50	**3.80**	<0.10	<0.10	<0.50	<0.50	**46.00**
	4/10/2012	<0.001	<0.001	<0.001	<0.002	<0.001	**0.55**	**8.7**	<0.1	<0.1	**0.54**	<0.5	**71**
	8/7/2012	<0.001	<0.001	<0.001	<0.002	<0.001	**0.22**	**2.5**	< 0.10	< 0.10	< 0.10	< 0.5	**46**
	4/10/2013	<0.001	<0.001	<0.001	<0.002	<0.001	**0.51**	**8.1**	< 0.10*	< 0.10	< 0.10*	< 0.5	**74**
	8/6/2013	<0.001	<0.001	<0.001	<0.002	<0.001	**0.57**	**15**	**2.5**	< 0.10	**2.5**	<0.50	**77**
	4/1/2014	<0.001	<0.001	<0.001	<0.0015	<0.001	**0.56**	**7.6**	< 0.10	**0.10**	**3.7**	< 0.50	**77**
	8/6/2014	<0.001	<0.001	<0.001	<0.002	<0.001	**0.50**	**9.2**	< 0.10	**0.11**	**0.37**	< 0.50	**98**
	4/1/2015	<1.0	<1.0	<1.0	<1.5	<1.0	**0.52**	**8.6**	**0.13**	< 0.10	**0.71**	< 0.50	**88**
	8/26/2015	<1.0	<1.0	<1.0	<1.5	<1.0	**0.17**	**2.7**	< 0.10	< 0.10	**0.54**	< 0.50	**42**
	5/18/2016	<1.0	<1.0	<1.0	<1.5	<1.0	**0.18**	**3.4**	< 0.10	< 0.10	**0.17**	< 0.50	**45**
	4/1/2017	<1.0	<1.0	<1.0	<1.5	<1.0	0.46	**8.4**	**1.4**	< 0.10	**1.4**	< 0.50	**89**
	8/30/2017	<1.0	<1.0	<1.0	<1.5	<1.0	**0.42**	**9.5**	**1.6**	**0.13**	**1.6**	< 0.50	**190**
	4/20/2018	<1.0	<1.0	<1.0	<1.5	<1.0	--	--	--	--	--	--	--
	8/30/2018	<1.0	<1.0	<1.0	<1.5	<1.0	**0.43**	**4.4**	<1.0	**0.074 J**	**0.64 H**		**58**
	4/4/2019	<1.0	<1.0	<1.0	<1.5	<1.0	<0.50	**15**	<0.50	<0.50	**3.5**	<2.5	**250**
	8/15/2019	<1.0	<1.0	<1.0	<1.5	<1.0	**0.48 J**	**12**	**1.5**	<0.50	**1.5**	<2.5 H	**220**
	8/3/2020	<0.23	<0.20	<0.21	<0.55	<0.39	**0.48 J**	**17**	<0.070	<0.25	**2.4**	<1.2	**220**
	4/27/2021	<1.0	<1.0	<1.0	<1.5	<1.0	**0.48**	**17**	<0.10	<0.10	**1.3**	<0.50	**170**
East Outfall #3	4/1/2015	<1.0	<1.0	<1.0	<1.5	<1.0	**0.22**	**4.4**	< 0.10	< 0.10	**0.21**	< 0.50	**54**
	8/26/2015	<1.0	<1.0	<1.0	<1.5	<1.0	**0.18**	**3.6**	< 0.10	< 0.10	**0.47**	< 0.50	**47**
	5/18/2016	<1.0	<1.0	<1.0	<1.5	<1.0	**0.18**	**3.8**	< 0.10	< 0.10	**0.22**	< 0.50	**44**
	8/19/2016	<1.0	<1.0	<1.0	<1.5	<1.0	**0.19**	**3.4**	< 1.0	< 0.10	< 1.0	< 0.50	**48**
	4/1/2017	<1.0	<1.0	<1.0	<1.5	<1.0	**0.23**	**18**	**2.4**	< 0.10	**2.4**	< 0.50	**120**
	8/30/2017	<1.0	<1.0	<1.0	<1.5	<1.0	**0.18**	**4.1**	**0.59 J**	**0.036 J**	**0.59 J**	< 0.50	**51**
	4/20/2018	<1.0	<1.0	<1.0	<1.5	<1.0	--	--	--	--	--	--	--
	8/9/2018	<1.0	<1.0	<1.0	<1.5	<1.0	**0.16**	**3.1**	**0.48 J**	**0.041 J**	**0.48 J**	**0.33 JH**	**44**
	4/4/2019	<1.0	<1.0	<1.0	<1.5	<1.0	<0.50	**14**	<0.50	<0.50	**3.3**	<2.5	**250**
	8/15/2019	<1.0	<1.0	<1.0	<1.5	<1.0	**0.35**	**14**	**1.6**	**0.12**	**1.6**	<0.50 H	**190**
	8/3/2020	<0.23	<0.20	<0.21	<0.55	<0.39	**0.42 J**	**13**	<0.070	<0.25	**1.8**	<1.2	**170**

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TABLE 8A
OUTFALLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)
Screening Source		NMAC 20.6.2					Anions - NMAC 20.6.2						
Screening Levels		5	1000	700	620	100	1.6	250	1	-	10	-	600

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

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WQCC = Water Quality Control Commission

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TABLE 8B
OUTFALLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)
Screening Source		Anions - NMAC 20.6.2			Total Metals - NMAC 20.6.2						
Screening Levels		-	-	-	0.01	2.0	0.05	0.015	0.05	0.05	0.002
East Outfall #2	4/13/2010	240	270	270	<0.02	0.058	<0.006	<0.005	<0.05	<0.005	<0.0002
	8/7/2010	350	390	390	<0.02	0.085	<0.006	<0.005	<0.05	<0.005	<0.0002
	4/12/2011	350	390	390	<0.02	0.085	<0.006	<0.005	<0.05	<0.005	<0.0002
	8/16/2011	93	100	100	<0.02	0.012	<0.006	<0.005	<0.05	<0.005	<0.0002
	4/10/2012	330	360	360	<0.02	0.15	0.0061	0.0056	<0.05	<0.005	<0.0002
	8/7/2012	91	100	100	<0.02	0.05	<0.006	<0.005	<0.05	<0.005	<0.0002
	4/10/2013	320	340	340	<0.02	0.16	<0.006	<0.005	<0.05	<0.005	<0.0002
	8/6/2013	310	330	330	<0.020	0.084	<0.0060	<0.0050	<0.050	<0.0050	<0.00020
	4/1/2014	320	340	340	< 0.020	0.080	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	8/6/2014	320	350	350	< 0.020	0.19	0.0072	< 0.0050	< 0.050	< 0.0050	< 0.00020
	4/1/2015	-	344.8	344.8	< 0.020	0.087	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	8/26/2015	78	85.24	85.24	< 0.020	0.063	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	5/18/2016	90	97.96	97.96	< 0.020	0.09	< 0.0060	0.0057	< 0.050	< 0.0050	< 0.00020
	4/1/2017	320	343.1	343.1	< 0.020	0.066	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	8/30/2017	310	343.7	343.7	0.02	0.23	0.021	< 0.0050	< 0.050	< 0.0050	< 0.00020
	4/20/2018	330	354.6	354.6	< 0.020	0.11	< 0.0060	0.0054	< 0.050	0.0056	< 0.00020
	8/30/2018	210	233.9	233.9	< 0.020	0.060	< 0.0060	<0.0050	< 0.050	<0.0050	0.000085 J
	4/4/2019	310	323	323	< 0.020	0.077	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	8/15/2019	300 H	333.2	333.2	< 0.020	0.064	< 0.0060	< 0.0050	< 0.050	0.0027 J	< 0.00020
	8/3/2020	<1.0 H	263.1	263.1	0.0010 J	0.044	<0.0014	<0.00050	0.0028	0.0023 J	<0.00012
	4/27/2021	---	298.4	298.4	0.0011	0.050	<0.0060	<0.00050	0.0051	<0.0050	<0.00020
East Outfall #3	4/1/2015	-	111	111	< 0.020	0.063	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	8/26/2015	85	95.16	95.16	< 0.020	0.065	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	5/18/2016	87	95.28	95.28	< 0.020	0.074	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	8/19/2016	84	94	94	< 0.020	0.072	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	4/1/2017	240	253.5	253.5	< 0.020	0.08	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	8/30/2017	110	126.5	126.5	< 0.020	0.076	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	4/20/2018	300	319.9	319.9	< 0.020	0.10	< 0.0060	0.0052	< 0.050	0.0059	< 0.00020
	8/9/2018	86	93.12	93.12	< 0.020	0.07	< 0.0060	<0.0050	< 0.050	< 0.0050	0.000060 J
	4/4/2019	300	318.1	318.1	< 0.020	0.063	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	8/15/2019	290	324.4	324.4	< 0.020	0.048	< 0.0060	< 0.0050	< 0.050	0.0023 J	< 0.00020
	8/3/2020	<1.0 H	203.9	203.9	0.00093 J	0.033	<0.0014	<0.00050	0.0023	0.0018 J	<0.00012

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TABLE 8B
OUTFALLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)
Screening Source		**Anions - NMAC 20.6.2**			**Total Metals - NMAC 20.6.2**						
Screening Levels		**-**	**-**	**-**	**0.01**	**2.0**	**0.05**	**0.015**	**0.05**	**0.05**	**0.002**

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

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WQCC = Water Quality Control Commission

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TABLE 8C
OUTFALLS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Calcium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
Screening Source		Dissolved Metals - NMAC 20.6.2													
Screening Levels		**0.01**	**2.0**	**-**	**1**	**1**	**0.015**	**-**	**0.2**	**-**	**0.05**	**0.05**	**-**	**0.03**	**10**
East Outfall #2	4/13/2010	<0.02	**0.056**	**86**	<0.006	<0.02	<0.005	**18**	<.002	**1.7**	<0.05	<0.005	**55**	---	<0.05
	8/7/2010	<0.02	**0.085**	**100**	<0.006	<0.02	<0.005	**22**	**0.0032**	**1.9**	**0.0031**	<0.005	**62**	**0.0049**	<0.05
	4/12/2011	<0.001	**0.085**	**100**	<0.030	<0.02	<0.005	**22**	**0.0032**	**1.9**	**0.0031**	<0.005	**62**	**0.0049**	<0.05
	8/16/2011	<0.02	**0.064**	**36**	<0.006	<0.02	<0.005	**6.8**	**0.014**	**1.5**	<0.05	<0.005	**17**	**0.001**	**0.18**
	4/10/2012	<0.001	**0.100**	**84**	<0.006	**0.17**	<0.001	**18**	**0.045**	**1.6**	**0.0013**	<0.005	**66**	**0.0045**	**0.13**
	8/7/2012	<0.001	**0.047**	**34**	<0.006	**0.082**	<0.005	**6.1**	**0.029**	**1.2**	< 0.001	< 0.005	**16**	< 0.001	**0.012**
	4/10/2013	**0.0014**	**0.11**	**92**	<0.006	**0.076**	<0.001	**19**	**0.072**	**2.0**	**0.0016**	< 0.005	**55**	---	<0.01
	8/6/2013	<0.020	**0.081**	**87**	<0.0060	<0.020	<0.0050	**20**	**0.010**	**1.8**	<0.050	< 0.0050	**59**	<0.10	<0.020
	4/1/2014	< 0.020	**0.079**	**94**	< 0.0060	< 0.020	< 0.0050	**20**	**0.0053**	**1.3**	< 0.050	< 0.0050	**54**	< 0.10	< 0.020
	8/6/2014	< 0.020	**0.089**	**100**	< 0.0060	< 0.020	< 0.0050	**22**	< 0.0020	**1.7**	< 0.050	< 0.0050	**60**	< 0.10	< 0.020
	4/1/2015	< 0.020	**0.089**	**100**	< 0.0060	< 0.020	< 0.0050	**21**	**0.011**	**1.4**	< 0.050	< 0.0050	**57**	< 0.10	< 0.020
	8/26/2015	**0.001**	**0.06**	**30**	< 0.0060	< 0.020	< 0.00050	**5.2**	**0.0021**	**1.7**	< 0.0010	< 0.0050	**14**	< 0.00050	**0.019**
	5/18/2016	< 0.0010	**0.068**	**37**	< 0.0060	< 0.020	< 0.00050	**6.2**	**0.009**	**1.6**	< 0.0010	< 0.0050	**16**	**0.0008**	**0.02**
	4/1/2017	< 0.020	**0.066**	**98**	< 0.0060	< 0.020	< 0.0050	**21**	**0.0054**	**1.6**	< 0.050	< 0.0050	**58**	< 0.10	< 0.020
	8/30/2017	< 0.020	**0.095**	**120**	< 0.050	**0.023**	< 0.00020	**26**	**0.076**	**2.1**	< 0.050	< 0.0050	**67**	< 0.0050	**0.030**
	4/20/2018	< 0.020	**0.065**	**110**	< 0.0060	< 0.020	< 0.0050	**22**	<0.0020	**1.4**	< 0.050	< 0.0050	**61**	< 0.10	< 0.020
	8/30/2018	< 0.020	**0.055**	**74**	< 0.0060	< 0.020	< 0.0050	**14**	**0.0043**	**1.0**	< 0.050	**0.0024 J**	**36**	< 0.10	**0.065**
	4/4/2019	< 0.020	**0.082**	**140**	< 0.0060	< 0.020	< 0.0050	**27**	<0.0020	**2.0**	< 0.050	< 0.0050	**83**	< 0.10	< 0.020
	8/15/2019	< 0.020	**0.063**	**110**	< 0.0060	**0.0056 J**	**0.0075**	**25**	**0.00074 J**	**1.7**	< 0.050	**0.0021 J**	**81**	< 0.10	**0.020 J**
	8/3/2020	0.00083900 J	**0.040**	**100**	<0.0029	<0.0080	<0.00050	**21**	**0.00053 J**	**1.7**	**0.0021855**	**0.0019 J**	**93**	**0.0039852**	**0.032**
	4/27/2021	**0.0011**	**0.049**	**95**	**0.0017**	<0.020	<0.00050	**21**	<0.0020	**1.8**	**0.0047**	<0.0050	**82**	**0.0038**	<0.010
East Outfall #3	4/1/2015	< 0.020	**0.062**	**41**	< 0.0060	< 0.020	< 0.0050	**7.1**	< 0.0020	**1.9**	< 0.050	< 0.0050	**22**	< 0.10	< 0.020
	8/26/2015	**0.001**	**0.062**	**33**	< 0.0060	< 0.020	< 0.00050	**5.9**	**0.0031**	**1.8**	< 0.0010	< 0.0050	**17**	**0.0007**	**0.018**
	5/18/2016	< 0.0010	**0.072**	**35**	< 0.0060	< 0.020	< 0.00050	**5.8**	**0.0028**	**1.6**	< 0.0010	< 0.0050	**17**	**0.0008**	< 0.010
	8/19/2016	< 0.020	**0.069**	**34**	< 0.0060	< 0.020	< 0.0050	**6**	**0.0032**	**1.9**	< 0.050	< 0.0050	**18**	< 0.10	**0.025**
	4/1/2017	< 0.020	**0.08**	**92**	< 0.0060	< 0.020	< 0.0050	**16**	< 0.0020	**2.1**	< 0.050	< 0.0050	**53**	< 0.10	< 0.020
	8/30/2017	< 0.020	**0.067**	**45**	< 0.0060	**0.0066 J**	< 0.0050	**8.2**	**0.0031**	**1.8**	< 0.050	< 0.0050	**22**	< 0.10	**0.031**
	4/20/2018	< 0.020	**0.09**	**130**	< 0.0060	< 0.020	< 0.0050	**25**	<0.0020	**2.2**	< 0.050	< 0.0050	**80**	< 0.10	< 0.020
	8/9/2018	< 0.020	**0.065**	**36**	< 0.0060	< 0.020	< 0.0050	**6.2**	**0.0013 J**	**1.8**	< 0.050	< 0.0050	**18**	< 0.10	**0.056**
	4/4/2019	< 0.020	**0.064**	**140**	< 0.0060	< 0.020	< 0.0050	**26**	<0.0020	**1.9**	< 0.050	< 0.0050	**84**	< 0.10	< 0.020
	8/15/2019	< 0.020	**0.049**	**110**	**0.0030 J**	< 0.020	**0.0066**	**25**	<0.0020	**2.0**	< 0.050	**0.0023 J**	**80**	< 0.10	**0.016 J**
	8/3/2020	**0.00074554 J**	**0.035**	**73**	<0.0029	<0.0080	<0.00050	**16**	**0.0020**	**1.7**	**0.0017582**	**0.0018**	**74**	**0.0025832**	**0.064**

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

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µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

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WQCC = Water Quality Control Commission

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TABLE 9A
SEEPS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)
Screening Source		**NMAC 20.6.2**					**Anions - NMAC 20.6.2**				
Screening Levels		**5**	**1000**	**700**	**620**	**100**	**1.6**	**250**	**1.0**	**-**	**10**
Seep #1	Aug-18	---	---	---	---	---	---	---	---	---	---
	May-18	---	---	---	---	---	<0.50	**270**	<0.50	3.9	<0.50
	Aug-17	---	---	---	---	---	---	---	---	---	---
	Apr-17	<1.0	<1.0	<1.0	<1.5	**43**	<0.5	**210**	<1.0	3.2	<1.0
	Aug-16	---	---	---	---	---	---	---	---	---	---
	Apr-16	<1.0	<1.0	<1.0	<1.5	**41**	**0.35**	**200**	<1.0	2.6	<1.0
	Aug-15	---	---	---	---	---	---	---	---	---	---
	Apr-15	<1.0	<1.0	<1.0	<1.5	**13**	<1.0	**170**	<1.0	3.3	<1.0
Seep #2	Aug-18	---	---	---	---	---	---	---	---	---	---
	Apr-18	---	---	---	---	---	---	---	---	---	---
	Aug-17	---	---	---	---	---	---	---	---	---	---
	Apr-17	---	---	---	---	---	---	---	---	---	---
	Aug-16	---	---	---	---	---	---	---	---	---	---
	Apr-16	---	---	---	---	---	---	---	---	---	---
Seep #3	Aug-18	---	---	---	---	---	---	---	---	---	---
	Apr-18	---	---	---	---	---	---	---	---	---	---
	Aug-17	---	---	---	---	---	---	---	---	---	---
	Apr-17	---	---	---	---	---	---	---	---	---	---
	Aug-16	---	---	---	---	---	---	---	---	---	---
	Apr-16	<1.0	<1.0	<1.0	<1.5	<1.0	**0.22**	**260**	<1.0	**3.2**	<1.0
	Aug-15	---	---	---	---	---	---	---	---	---	---
	Apr-15	---	---	---	---	---	---	---	---	---	---
Seep #6	Aug-18	---	---	---	---	---	---	---	---	---	---
	Apr-18	---	---	---	---	---	---	---	---	---	---
	Apr-17	---	---	---	---	---	---	---	---	---	---
	Aug-16	---	---	---	---	---	---	---	---	---	---
	Apr-16	---	---	---	---	---	---	---	---	---	---
	Aug-15	---	---	---	---	---	---	---	---	---	---
	Apr-15	---	---	---	---	---	---	---	---	---	---
	Aug-14	---	---	---	---	---	---	---	---	---	---
	Apr-14	---	---	---	---	---	---	---	---	---	---

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TABLE 9A
SEEPS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE) (µg/L)	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)
Screening Source		**NMAC 20.6.2**					**Anions - NMAC 20.6.2**				
Screening Levels		**5**	**1000**	**700**	**620**	**100**	**1.6**	**250**	**1.0**	**-**	**10**
Seep #9	Aug-18	---	---	---	---	---	---	---	---	---	---
	Apr-18	---	---	---	---	---	---	---	---	---	---
	Aug-17	---	---	---	---	---	---	---	---	---	---
	Apr-17	---	---	---	---	---	---	---	---	---	---
	Aug-16	---	---	---	---	---	---	---	---	---	---
	Apr-16	---	---	---	---	---	---	---	---	---	---
	Apr-14	---	---	---	---	---	---	---	---	---	---

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TABLE 9B
SEEPS ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Phosphorus (mg/L)	Sulfate (mg/L)	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Bicarbonate ($CaCO_3$) (mg/L)
Screening Source			Anions - NMAC 20.6.2			
Screening Levels		-	600	-	-	-
Seep #1	Aug-18	---	---	---	---	---
	May-18	<10	**1000**	**430**	**453.2**	**453.2**
	Aug-17	---	---	---	---	---
	Apr-17	< 2.5	**1100**	**470**	**507.1**	**507.1**
	Aug-16	---	---	---	---	---
	Apr-16	< 2.5	**1300**	**450**	**479.6**	**479.6**
	Aug-15	---	---	---	---	---
	Apr-15	<5.0	**1200**	**390**	**433.1**	**433.1**
Seep #2	Aug-18	---	---	---	---	---
	Apr-18	---	---	---	---	---
	Aug-17	---	---	---	---	---
	Apr-17	---	---	---	---	---
	Aug-16	---	---	---	---	---
	Apr-16	---	---	---	---	---
Seep #3	Aug-18	---	---	---	---	---
	Apr-18	---	---	---	---	---
	Aug-17	---	---	---	---	---
	Apr-17	---	---	---	---	---
	Aug-16	---	---	---	---	---
	Apr-16	<5	**2500**	**330**	**365.4**	**365.4**
	Aug-15	---	---	---	---	---
	Apr-15	---	---	---	---	---
Seep #6	Aug-18	---	---	---	---	---
	Apr-18	---	---	---	---	---
	Apr-17	---	---	---	---	---
	Aug-16	---	---	---	---	---
	Apr-16	---	---	---	---	---
	Aug-15	---	---	---	---	---
	Apr-15	---	---	---	---	---
	Aug-14	---	---	---	---	---
	Apr-14	---	---	---	---	---
Seep #9	Aug-18	---	---	---	---	---
	Apr-18	---	---	---	---	---
	Aug-17	---	---	---	---	---
	Apr-17	---	---	---	---	---
	Aug-16	---	---	---	---	---
	Apr-16	---	---	---	---	---
	Apr-14	---	---	---	---	---

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--- = Specific analyte not sampled

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TABLE 10A
SAN JUAN RIVER ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)
Screening Source		NMAC 20.6.2					NMED Soil Screening Guidance Table 6-4			Anions - NMAC 20.6.2						
Screening Levels		5	1000	700	620	100	0.0167	0.0101	0.0858	1.6	250	1.0	-	10	-	600
Upstream	Apr-09	<0.001	<0.001	<0.001	<0.002	<0.0025	<1.0	<5.0	<0.050	0.15	3.30	<0.10	<0.10	<0.10	<0.50	73
	Aug-09	<0.001	<0.001	<0.001	<0.003	<0.0015	<1.0	<5.0	<0.050	0.23	3.50	<0.10	<0.10	<0.10	<0.50	62
	Apr-10	<0.001	<0.001	<0.001	<0.003	<0.0015	<1.0	<5.0	<0.050	0.15	3.60	<0.10	<0.10	<0.10	<0.50	74
	Aug-10	<0.001	<0.001	<0.001	<0.003	<0.0015	<1.0	<5.0	<0.050	0.18	3.20	<0.10	<0.10	<0.10	<0.50	60
	Apr-11	<0.001	<0.001	<0.001	<0.003	<0.0015	<0.2	<2.5	<0.050	0.19	2.90	<0.10	<0.10	<0.10	<0.50	66
	Aug-11	<0.001	<0.001	<0.001	<0.003	<0.0015	<0.2	<2.5	<0.050	0.17	2.60	<0.10	<0.10	<0.10	<0.50	47
	Apr-12	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	< 0.2	< 0.050	< 2.5	0.10	2.70	< 0.10	< 0.10	< 0.10	< 0.50	62
	Aug-12	<0.001	<0.001	<0.001	<0.002	<0.001	< 0.20	< 0.050	< 2.5	0.17	2.70	< 0.10	< 0.10	< 0.10	< 0.50	53
	Apr-13	<0.001	<0.001	<0.001	<0.002	<0.001	< 0.20	< 0.050	< 2.5	0.18	4.0	< 0.10	< 0.10	< 0.10	< 0.50	86
	Aug-13	<0.002	<0.002	<0.002	<0.002	<0.004	< 0.20	<0.10	< 2.5	<0.50	3.6	< 0.50	< 0.50	< 0.50	<2.5	79
	Apr-14	<0.001	<0.001	<0.001	<0.0015	<0.001	< 0.20	< 0.050	< 2.5	0.20	3.9	< 0.10	< 0.10	0.12	< 0.50	96
	Aug-14	<0.001	<0.001	<0.001	<0.002	<0.001	< 0.20	< 0.050	< 2.5	0.18	3.3	< 1.0	< 0.10	< 1.0	< 0.50	66
	Apr-15	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	0.21	4.3	< 0.10	< 0.10	< 0.10	< 0.50	110
	Aug-15	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	0.17	3	< 0.10	< 0.10	< 0.10	< 0.50	54
	Apr-16	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	0.2	3.3	< 1.0	< 0.10	< 1.0	< 0.50	75
	Aug-16	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	0.16	2.7	< 1.0	< 0.10	< 1.0	< 0.50	49
	Apr-17	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	0.17	3.5	< 1.0	< 0.10	< 1.0	< 0.50	73
	Aug-17	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	0.13	3.4	< 0.10	< 0.10	0.18	< 0.50	46
	Apr-18	<1.0	<1.0	<1.0	<1.5	<1.0	<0.40	< 0.050	< 2.5	0.15	2.8	<1.0	<0.10	<1.0	<0.50	50
	Aug-18	<1.0	<1.0	<1.0	<1.5	<1.0	<0.40	<0.050	<2.5	0.13	2.5	<0.10	<0.10	<0.10	<0.50	43
	Apr-19	<1.0	<1.0	<1.0	<1.5	<1.0	<0.40	< 0.050	< 2.5	<1.0	5.4	<1.0	<1.0	<1.0	<0.50	92
	Aug-19	<1.0	<1.0	<1.0	<1.5	<1.0	<0.40	<0.050	<2.5	0.21 J	3.6	0.13 J	<0.50	0.13 J	<0.50 H	49
	Aug-20	<0.23	<0.20	<0.21	<0.55	<0.39	<0.067	<0.0080	<0.60	<0.22	2.9	<0.070	<0.25	<0.10	<1.2	49
	Aug-21	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<0.050	---	<0.50	3.3	<1.0	<0.50	<1.0	<2.5	47
	4/14/2022	<1.0	<1.0	<1.0	<1.5	<1.0	0.076	<0.050	<0.080	<0.50	3.6	---	<0.50	---	<2.5 H	64
	8/9/2022	<1.0	<1.0	<1.0	<1.5	<1.0	0.040 J	<0.10	<0.080	0.42 J	4.1	<0.50	<0.50	0.16 J	<2.5	130
North of MW-45	Apr-09	<0.001	<0.001	<0.001	<0.002	<0.0025	<1.0	<5.0	<0.050	0.14	3.10	<0.10	<0.10	<0.10	<0.50	72
	Aug-09	<0.001	<0.001	<0.001	<0.003	<0.0015	<1.0	<5.0	<0.050	0.1	3.10	<0.10	<0.10	<0.10	<0.50	50
	Apr-10	<0.001	<0.001	<0.001	<0.003	<0.0015	<0.2	<0.050	<2.5	0.16	3.60	<0.10	<0.10	<0.10	<0.50	72
	Aug-10	<0.001	<0.001	<0.001	<0.003	<0.0015	<0.2	<0.050	<2.5	0.17	3.00	<0.10	<0.10	<0.10	<0.50	60
	Apr-11	<0.001	<0.001	<0.001	<0.003	<0.0015	<0.2	<0.050	<2.5	0.19	2.90	<0.10	<0.10	<0.10	<0.50	65
	Aug-11	<0.001	<0.001	<0.001	<0.003	<0.0015	<0.2	<0.050	<2.5	0.17	2.80	<0.10	<0.10	<0.10	<0.50	51
	Apr-12	<0.001	<0.001	<0.001	<0.002	<0.001	<0.2	<0.050	<2.5	0.19	2.70	<0.10	<0.10	<0.10	<0.50	61
	Aug-12	<0.001	<0.001	<0.001	<0.002	<0.001	<0.2	<0.05	<2.5	0.16	2.5	< 0.1	< 0.1	< 0.1	<0.5	46
	Apr-13	<0.001	<0.001	<0.001	<0.002	<0.001	<0.2	<0.05	<2.5	0.17	3.7	< 1.0	< 0.10	< 1.0*	< 0.50	71
	Aug-13	<0.002	<0.002	<0.002	<0.002	<0.004	< 0.20	<0.10	< 2.5	<0.50	3.2	<0.50	<0.50	<0.50	<2.5	69
	Apr-14	<0.001	<0.001	<0.001	<0.0015	<0.001	< 0.02	< 0.050	< 2.5	0.20	3.8	< 0.10	< 0.10	< 0.10	< 0.50	92
	Aug-14	<0.001	<0.001	<0.001	<0.002	<0.001	< 0.20	< 0.050	< 2.5	0.18	3.2	< 1.0	< 0.10	< 1.0	< 0.50	59
	Apr-15	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	0.2	3.8	< 0.10	< 0.10	< 0.10	< 0.50	92
	Aug-15	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	0.17	2.9	< 0.10	< 0.10	< 0.10	< 0.50	52
	Apr-16	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	0.2	3.3	< 1.0	< 0.10	< 1.0	< 0.50	78
	Aug-16	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	0.15	2.7	< 1.0	< 0.10	< 1.0	< 0.50	48
	Apr-17	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	0.17	3.5	< 1.0	< 0.10	< 1.0	< 0.50	71
	Aug-17	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	0.12	2.8	< 0.10	< 0.10	< 0.10	< 0.50	45
	Apr-18	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.40	< 0.050	< 2.5	0.15	2.8	<1.0	<0.10	<1.0	<0.50 H	49
	Aug-18	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.40	< 0.050	< 2.5	0.14	2.7	<1.0	<0.10	<1.0	<0.50	42
	Apr-19	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.40	< 0.050	< 2.5	<1.0	5.5	<1.0	<1.0	<1.0	<5 H	94
	Aug-19	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.40	< 0.050	< 2.5	0.19	3.6	<1.0	<0.10	<1.0	<0.50 H	50
	Aug-20	<0.23	<0.20	<0.21	<0.55	<0.39	<0.067	< 0.0080	<0.60	<0.22	3.0	<0.070	<0.25	<0.10	<1.2	50
	Apr-21	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<0.085	<0.60	0.18	3.0	<0.10	<0.10	<0.10	<0.50	55
	Aug-21	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<0.050	---	<0.50	3.4	<1.0	<0.50	<1.0	<2.5	48
	4/14/2022	<1.0	<1.0	<1.0	<1.5	<1.0	0.033 J	<0.050	<0.080	<0.50	3.6	---	<0.50	---	<2.5 H	63

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TABLE 10A
SAN JUAN RIVER ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)
Screening Source		NMAC 20.6.2					NMED Soil Screening Guidance Table 6-4			Anions - NMAC 20.6.2						
Screening Levels		5	1000	700	620	100	0.0167	0.0101	0.0858	1.6	250	1.0	-	10	-	600
North of MW-45	8/3/2022	<1.0	<1.0	<1.0	<1.5	<1.0	**0.031 J**	<0.050	<0.080	<0.50	**3.7**	<0.50	<0.50	<0.50	<2.5	**72**
North of MW-46	Apr-09	<0.001	<0.001	<0.001	<0.002	<0.0025	<1.0	<5.0	<0.050	**0.15**	**3.10**	<0.10	<0.10	<0.10	<0.50	**72**
	Aug-09	<0.001	<0.001	<0.001	<0.003	<0.0015	<1.0	<5.0	<0.050	**0.22**	**3.2**	<0.10	<0.10	<0.10	<0.50	**49**
	Apr-10	<0.001	<0.001	<0.001	<0.003	<0.0015	<1.0	<5.0	<0.050	**0.14**	**3.70**	<0.10	<0.10	<0.10	<0.50	**72**
	Aug-10	<0.001	<0.001	<0.001	<0.003	<0.0015	<1.0	<5.0	<0.050	**0.16**	**3.10**	<0.10	<0.10	<0.10	<0.50	**61**
	Apr-11	<0.001	<0.001	<0.001	<0.003	<0.0015	<0.2	<2.5	<0.050	**0.19**	**3.00**	<0.10	<0.10	**0.14**	<0.50	**66**
	Aug-11	<0.001	<0.001	<0.001	<0.003	<0.0015	<0.2	<2.5	<0.050	**0.16**	**2.60**	<0.10	<0.10	<0.10	<0.50	**49**
	Apr-12	<0.001	<0.001	<0.001	<0.002	<0.001	<0.2	<0.050	<2.5	**0.17**	**2.7**	<0.10	<0.10	<0.10	<0.50	**60**
	Aug-12	<0.001	<0.001	<0.001	<0.002	<0.001	< 0.2	< 0.05	< 2.5	**0.16**	**2.5**	< 0.1	< 0.1	< 0.1	< 0.5	**47**
	Apr-13	<0.001	<0.001	<0.001	<0.002	<0.001	< 0.20	< 0.05	< 2.5	**0.17**	**4.3**	< 0.10	< 0.10	< 0.10	< 0.50	**73**
	Aug-13	<0.002	<0.002	<0.002	<0.002	<0.004	< 0.20	<0.10	< 2.5	<0.50	**3.4**	<0.50	<0.50	<0.50	<2.5	**69**
	Apr-14	<0.001	<0.001	<0.001	<0.0015	<0.001	< 0.20	< 0.050	< 2.5	**0.20**	**3.8**	< 0.10	< 0.10	< 0.10	< 0.50	**87**
	Aug-14	<0.001	<0.001	<0.001	<0.002	<0.001	< 0.20	< 0.050	< 2.5	**0.18**	**3.2**	< 1.0	< 0.10	< 1.0	< 0.50	**58**
	Apr-15	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	**0.21**	**3.8**	< 0.10	< 0.10	< 0.10	< 0.50	**93**
	Aug-15	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	**0.17**	**2.9**	< 0.10	< 0.10	< 0.10	< 0.50	**53**
	Apr-16	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	**0.19**	**3.5**	< 1.0	< 0.10	< 1.0	< 0.50	**80**
	Aug-16	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	**0.15**	**2.7**	< 1.0	< 0.10	< 1.0	< 0.50	**49**
	Apr-17	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	**0.19**	**4.4**	< 1.0	< 0.10	< 1.0	< 0.50	**120**
	Aug-17	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	**0.13**	**2.9**	< 0.10	< 0.10	**0.074 J**	< 0.50	**45**
	Apr-18	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	**0.15**	**3**	<1.0	<0.10	<1.0	<0.50 H	**59**
	Aug-18	<1.0	<1.0	<1.0	<1.5	<1.0	<0.40	<0.050	<2.5	**0.14**	**2.5**	<1.0	<0.10	<1.0	<0.50	**43**
	Apr-19	<1.0	<1.0	<1.0	<1.5	<1.0	<0.40	< 0.050	< 2.5	**<1.0**	**6.2**	<1.0	<1.0	<1.0	<5.0 H	**130**
	Aug-19	<1.0	<1.0	<1.0	<1.5	<1.0	<0.40	<0.050	<2.5	**0.19**	**3.5**	<1.0	<0.10	<1.0	<0.50 H	**50**
	Aug-20	<0.23	<0.20	<0.21	<0.55	<0.39	<0.067	<0.0080	<0.60	<0.22	**3.0**	<0.070	<0.25	<0.10	<1.2	**50**
	Apr-21	<1.0	<1.0	<1.0	<1.5	<1.0	**0.087**	<0.085	<0.60	---	**---**	<0.50	---	<0.50	---	**---**
	Aug-21	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<0.050	---	<0.50	**3.5**	<1.0	<0.50	<1.0	<2.5	**45**
	4/14/2022	<1.0	<1.0	<1.0	<1.5	<1.0	**0.027 J**	<0.050	<0.080	<0.50	**4.7**	---	<0.50	---	<2.5 H	**70**
	8/4/2022	<1.0	<1.0	<1.0	<1.5	<1.0	**0.023 J**	<0.050	<0.080	<0.50 H	**3.6**	---	<0.50	---	<2.5 H	**73**
Downstream	Apr-15	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	**0.21**	**3.9**	< 0.10	< 0.10	< 0.10	< 0.50	**100**
	Aug-15	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	**0.17**	**3**	< 0.10	< 0.10	< 0.10	< 0.50	**54**
	Apr-16	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	**0.19**	**3.4**	< 1.0	< 0.10	< 1.0	< 0.50	**84**
	Aug-16	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	**0.16**	**2.7**	< 1.0	< 0.10	< 1.0	< 0.50	**49**
	Apr-17	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	**0.17**	**3.7**	< 1.0	< 0.10	< 1.0	< 0.50	**80**
	Aug-17	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	**0.12**	**2.8**	< 0.10	< 0.10	**0.082 J**	< 0.50	**45**
	Apr-18	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	**0.15**	**2.9**	<1.0	<0.10	<1.0	<0.50 H	**58**
	Aug-18	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.20	< 0.050	< 2.5	**0.14**	**2.5**	<1.0	<0.10	<1.0	<0.50	**44**
	Apr-19	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.40	< 0.050	< 2.5	**0.20**	**5.5**	<1.0	<1.0	<1.0	<5.0 H	**110**
	Aug-19	<1.0	<1.0	<1.0	<1.5	<1.0	< 0.40	< 0.050	< 2.5	**0.19**	**3.6**	**0.13 J**	<0.10	**0.13 J**	<0.50 H	**52**
	Aug-20	<0.23	<0.20	<0.21	<0.55	<0.39	<0.067	< 0.0080	<0.60	<0.22	**2.9**	<0.070	<0.25	<0.10	<1.2	**51**
	Apr-21	<1.0	<1.0	<1.0	<1.5	<1.0	<0.091	<0.050	<0.64	---	---	<0.10	---	<0.10	---	---
	Aug-21	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<0.050	---	<0.50	**3.3**	<1.0	<0.50	<1.0	<2.5	**45**
	4/14/2022	<1.0	<1.0	<1.0	<1.5	<1.0	**0.026 J**	<0.050	<0.080	<0.50	**4.5**	---	<0.50	---	<2.5 H	**96**
	8/4/2022	<1.0	<1.0	<1.0	<1.5	<1.0	**0.058 J**	<0.050	<0.080	**0.33 J**	**3.7**	---	<0.50	---	<2.5 H	**74**

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TABLE 10A
SAN JUAN RIVER ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (MTBE)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Motor Oil Range Organics	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)
Screening Source		NMAC 20.6.2					NMED Soil Screening Guidance Table 6-4			Anions - NMAC 20.6.2						
Screening Levels		5	1000	700	620	100	0.0167	0.0101	0.0858	1.6	250	1.0	-	10	-	600

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

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TABLE 10B
SAN JUAN RIVER ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)
Screening Source		Anions - NMAC 20.6.2		Total Metals - NMAC 20.6.2							
Screening Levels		-	-	0.01	2.0	0.005	0.05	0.015	0.05	0.05	0.002
Upstream	Apr-09	76	85	<0.020	0.07	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Aug-09	83	83	<0.020	0.07	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Apr-10	84	84	<0.020	0.065	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Aug-10	85	85	<0.020	0.068	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Apr-11	87	87	<0.020	0.071	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Aug-11	---	---	<0.020	0.11	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Apr-12	76	85	< 0.02	0.064	< 0.002	< 0.006	<0.0050	< 0.05	< 0.005	< 0.0002
	Aug-12	74	83	<0.020	0.099	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Apr-13	86	96	< 0.020	0.082	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-13	---	97	<0.10	2.5	<0.010	0.32	0.075	<0.25	<0.025	0.00038
	Apr-14	89	99	< 0.020	0.086	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-14	---	96	< 0.020	0.18	< 0.0020	0.0074	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Apr-15	---	99.56	< 0.020	0.061	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-15	---	91.56	< 0.020	0.16	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Apr-16	86	95	< 0.020	0.08	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-16	77	86	< 0.020	0.11	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Apr-17	71	91.24	< 0.020	0.079	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-17	77	85.68	< 0.020	0.099	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Apr-18	76	84.2	< 0.020	0.079	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-18	---	82.16	< 0.020	0.16	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Apr-19	87 H	95.56	< 0.020	0.14	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-19	79 H	87.56	< 0.020	0.10	< 0.0020	0.0026 J	< 0.0050	< 0.050	0.00084 J	< 0.00020
	Aug-20	<1.0 H	80.60	0.0017	0.13	<0.00090	0.0055 J	0.0036	0.00094 J	<0.0013	0.00027
	Aug-21	---	84.36	<0.0050	0.17	<0.0020	<0.0060	0.0030	<0.0050	<0.0050	<0.00020
	4/14/2022	---	84.68	0.0012	0.082	<0.0020	<0.0060	<0.00050	0.00073 J	<0.0050	<0.00020
	8/9/2022	---	107.6	0.014	3.3	<0.0020	0.19	0.15	0.026	<0.0050	0.00039
North of MW-45	Apr-09	78	87	<0.020	0.07	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Aug-09	83	83	<0.020	0.07	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Apr-10	84	84	<0.020	0.065	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Aug-10	88	84	<0.020	0.069	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Apr-11	84	88	<0.020	0.076	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Aug-11	---	---	<0.020	0.12	<0.002	<0.006	<0.005	<0.005	<0.005	<0.0002
	Apr-12	76	85	<0.020	0.06	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Aug-12	74	83	< 0.02	0.11	<0.002	<0.006	<0.005	< 0.05	<0.005	<0.0002
	Apr-13	83	93	< 0.020	0.081	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-13	---	96	<0.10	2.2	<0.010	0.28	0.050	<0.25	<0.025	0.0003
	Apr-14	89	100	< 0.020	0.086	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	0.022
	Aug-14	---	95	< 0.020	0.18	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Apr-15	---	99.68	< 0.020	0.06	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020

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TABLE 10B
SAN JUAN RIVER ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)
Screening Source		**Anions - NMAC 20.6.2**		**Total Metals - NMAC 20.6.2**							
Screening Levels		**-**	**-**	**0.01**	**2.0**	**0.005**	**0.05**	**0.015**	**0.05**	**0.05**	**0.002**
North of MW-45	Aug-15	---	**91**	< 0.020	**0.15**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Apr-16	**86**	**95.44**	< 0.020	**0.08**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-16	**76**	**84.8**	< 0.020	**0.14**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Apr-17	**71**	**91.12**	< 0.020	**0.085**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-17	**75**	**84.16**	< 0.020	**0.11**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Apr-18	**75 H**	**84.32**	< 0.020	**0.13**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-18	---	**82.08**	< 0.020	**0.17**	< 0.0020	< 0.0060	**0.0056**	< 0.050	< 0.0050	< 0.00020
	Apr-19	**86 H**	**95.48**	< 0.020	**0.19**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-19	**80 H**	**88.72**	< 0.020	**0.12**	< 0.0020	**0.0015 J**	**0.0043 J**	< 0.050	**0.00077 J**	< 0.00020
	Aug-20	<1.0 H	**81.08**	**0.0013**	**0.10**	<0.00090	**0.0025 J**	**0.0019**	**0.00079 J**	<0.0013	<0.00012
	Apr-21	---	**86.56**	<0.0010	**0.07**	<0.0020	<0.0060	<0.00050	<0.0010	<0.0050	<0.00020
	Aug-21	---	**84.20**	<0.0050	**0.14**	<0.0020	<0.0060	<0.0025	<0.0050	<0.0050	<0.00020
	4/14/2022	---	**85.04**	**0.0012**	**0.074**	<0.0020	<0.0060	**0.00063**	**0.00053 J**	<0.0050	<0.00020
	8/3/2022	**87**	**95.24**	**0.0037**	**0.22**	<0.0020	**0.0086**	**0.0068**	**0.0024**	<0.0050	**0.00010 J**
North of MW-46	Apr-09	**78**	**87**	<0.020	**0.07**	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Aug-09	**82**	**82**	<0.020	**0.07**	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Apr-10	**84**	**84**	<0.020	**0.065**	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Aug-10	**86**	**86**	<0.020	**0.068**	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Apr-11	**87**	**87**	<0.020	**0.076**	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Aug-11	---	---	<0.020	**0.17**	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Apr-12	**76**	**86**	<0.020	**0.063**	<0.002	<0.006	<0.005	<0.050	<0.005	<0.0002
	Aug-12	**74**	**83**	< 0.02	**0.087**	< 0.002	< 0.006	<0.005	<0.05	<0.005	<0.0002
	Apr-13	**83**	**93**	< 0.020	**0.084**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-13	---	**96**	<0.10	**2.0**	<0.010	**0.26**	**0.059**	<0.25	<0.025	**0.00031**
	Apr-14	**89**	**100**	< 0.020	**0.090**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-14	---	**95**	< 0.020	**0.17**	< 0.0020	**0.0060**	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Apr-15	---	**99.6**	< 0.020	**0.057**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-15	---	**92**	< 0.020	**0.17**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Apr-16	**86**	**95**	< 0.020	**0.078**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-16	**77**	**85**	< 0.020	**0.11**	< 0.0020	< 0.0060	**0.0058**	< 0.050	< 0.0050	< 0.00020
	Apr-17	**72**	**103.6**	< 0.020	**0.082**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-17	**75**	**84.92**	< 0.020	**0.086**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Apr-18	**78**	**87.48**	< 0.020	**0.074**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-18	---	**82.52**	< 0.020	**0.13**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Apr-19	**92**	**102.1**	< 0.020	**0.14**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-19	**80**	**88.92**	< 0.020	**0.15**	< 0.0020	**0.0046 J**	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-20	<1.0 H	**81.36**	**0.0010**	**0.077**	<0.00090	<0.0014	**0.00098 J**	**0.00067 J**	<0.0013	<0.00012
	Apr-21	---	**85.68**	<0.0010	**0.076**	<0.0020	<0.0060	<0.00050	<0.0010	<0.0050	<0.00020
	Aug-21	---	**85.12**	**0.0034**	**0.26**	<0.0020	<0.0060	**0.0083**	**0.0028**	<0.0050	<0.00020

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TABLE 10B
SAN JUAN RIVER ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Carbon Dioxide (CO_2) (mg/L)	Alkalinity ($CaCO_3$) (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)
Screening Source		**Anions - NMAC 20.6.2**		**Total Metals - NMAC 20.6.2**							
Screening Levels		**-**	**-**	**0.01**	**2.0**	**0.005**	**0.05**	**0.015**	**0.05**	**0.05**	**0.002**
North of MW-46	4/14/2022	---	**86.60**	**0.0011**	**0.074**	<0.0020	<0.0060	**0.00062**	**0.00050 J**	<0.0050	<0.0020
	8/4/2022	---	**95.72**	**0.0043**	**0.25**	<0.0020	**0.010**	**0.0080**	**0.0021**	<0.0050	**0.000098 J**
Downstream	Apr-15	---	**102.6**	< 0.020	**0.058**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-15	---	**92.12**	< 0.02	**0.130**	< 0.002	< 0.006	< 0.005	< 0.050	< 0.005	< 0.0002
	Apr-16	**87**	**97**	< 0.020	**0.082**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-16	**77**	**86**	< 0.020	**0.12**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Apr-17	**72**	**93**	< 0.020	**0.078**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-17	**75**	**84.52**	< 0.020	**0.091**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Apr-18	**77 H**	**86.16**	< 0.020	**0.078**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-18	---	**82.04**	< 0.020	**0.11**	< 0.0020	< 0.0060	**0.0059**	< 0.050	< 0.0050	< 0.00020
	Apr-19	**89 H**	**99.36**	< 0.020	**0.19**	< 0.0020	< 0.0060	< 0.0050	< 0.050	< 0.0050	< 0.00020
	Aug-19	**80 H**	**88.80**	< 0.020	**0.15**	< 0.0020	**0.0024 J**	<0.0050	< 0.050	**0.00058 J**	< 0.00020
	Aug-20	<1.0 H	**81.52**	**0.0011**	**0.075**	<0.00090	**0.0016 J**	**0.0010**	**0.00066 J**	<0.0013	<0.00012
	Apr-21	---	**93.48**	<0.0010	**0.072**	<0.0020	<0.0060	<0.00050	<0.0010	<0.0050	<0.00020
	Aug-21	---	**86.12**	**0.0021**	**0.15**	<0.0020	<0.0060	**0.0037**	**0.0012**	<0.0050	<0.00020
	4/14/2022	---	**89.72**	**0.0013**	**0.083**	<0.0020	<0.0060	**0.0009**	**0.00065 J**	<0.0050	<0.00020
	8/4/2022	---	**95.84**	**0.0047**	**0.26**	<0.0020	**0.012**	**0.0084**	**0.0016**	<0.0050	**0.000093 J**

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

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TABLE 10C
SAN JUAN RIVER ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
Screening Source		Dissolved Metals - NMAC 20.6.2															
Screening Levels		0.01	2.0	0.005	-	0.05	1.0	1.0	0.015	-	0.2	-	0.05	0.05	-	0.03	10.0
Upstream	Apr-09	<0.020	0.065	<0.002	35	<0.006	<0.006	0.021	<0.005	6.2	0.023	1.7	<0.050	<0.0050	25	<0.001	0.12
	Aug-09	<0.020	0.06	<0.002	28	<0.006	<0.006	<0.02	<0.005	5.4	0.003	1.6	<0.050	<0.0050	14	<0.001	<0.05
	Apr-10	<0.020	0.065	<0.002	34	<0.006	<0.006	0.022	<0.005	6.7	0.033	1.8	<0.050	<0.0050	29	<0.001	<0.05
	Aug-10	<0.020	0.068	<0.002	34	<0.006	<0.006	<0.02	<0.005	6	0.007	1.8	<0.050	<0.0050	19	<0.001	<0.05
	Apr-11	<0.001	0.058	<0.002	33	<0.006	<0.006	<0.02	<0.005	6	0.019	1.7	<0.001	<0.0050	22	<0.001	<0.01
	Aug-11	<0.001	0.059	<0.002	32	<0.006	<0.006	<0.02	<0.005	5.9	0.011	1.6	<0.001	<0.0050	16	<0.001	0.045
	Apr-12	< 0.001	0.058	< 0.002	32	< 0.006	0.0072	< 0.02	< 0.005	5.8	0.020	1.5	< 0.001	< 0.005	23	< 0.001	0.011
	Aug-12	< 0.001	0.049	<0.002	31	<0.006	<0.006	<0.02	<0.005	5.2	0.0093	1.6	<0.001	<0.0050	19	<0.001	0.064
	Apr-13	< 0.0010	0.074	< 0.0020	37	< 0.0060	< 0.0060	< 0.020	< 0.0010	6.5	0.033	2.2	< 0.0010	< 0.0050	29	< 0.0010	< 0.010
	Aug-13	<0.020	0.11	<0.0020	33	<0.0060	<0.0060	8.0	<0.0050	4.8	0.073	3.1	<0.050	<0.0050	41	<0.10	<0.020
	Apr-14	< 0.020	0.072	< 0.0020	41	< 0.0060	< 0.0060	0.024	< 0.0050	7.1	0.028	2.0	< 0.050	< 0.0050	36	< 0.10	0.023
	Aug-14	0.0011	0.079	< 0.0020	39	< 0.0060	< 0.0060	0.34	< 0.0010	6.3	0.028	2.0	< 0.0010	< 0.0050	22	< 0.0010	< 0.010
	Apr-15	< 0.020	0.056	< 0.0020	45	< 0.0060	< 0.0060	< 0.020	< 0.0050	7.1	0.034	2.1	< 0.050	< 0.0050	39	< 0.10	< 0.020
	Aug-15	0.001	0.077	< 0.0020	33	< 0.0060	< 0.0060	0.062	< 0.00050	5.4	0.01	1.9	< 0.0010	< 0.0050	19	0.00062	0.021
	Apr-16	< 0.0010	0.072	< 0.0020	39	< 0.0060	< 0.0060	< 0.020	< 0.00050	5.9	0.012	1.7	< 0.0010	< 0.0050	26	0.00076	0.016
	Aug-16	< 0.020	0.084	< 0.0020	34	< 0.0060	< 0.0060	0.29	< 0.0050	5.5	0.03	2.1	< 0.050	< 0.0050	19	< 0.10	0.024
	Apr-17	< 0.020	0.07	< 0.0020	37	< 0.0060	< 0.0060	< 0.020	< 0.0050	6.4	0.021	1.9	< 0.050	< 0.0050	26	< 0.10	< 0.020
	Aug-17	< 0.020	0.072	< 0.0020	33	< 0.0060	< 0.0060	0.015 J	< 0.0050	5.9	0.0095	1.9	< 0.050	< 0.0050	17	< 0.10	0.033
	Apr-18	< 0.020	0.058	< 0.0020	32	< 0.0060	< 0.0060	<0.020	< 0.0050	5.7	0.0074	1.7	< 0.050	< 0.0050	20	< 0.10	<0.020
	Aug-18	< 0.020	0.066	< 0.0020	30	< 0.0060	< 0.0060	<0.020	< 0.0050	5.3	0.0022	1.6	< 0.050	< 0.0050	15	< 0.10	0.086
	Apr-19	< 0.020	0.076	< 0.0020	39	< 0.0060	< 0.0060	0.074	< 0.0050	7.3	0.017	2.2	< 0.050	< 0.0050	29	< 0.10	<0.020
	Aug-19	< 0.020	0.078	< 0.0020	32	< 0.0060	0.0033 J	0.0089 J	0.0063	6.5	0.0057	2.1	< 0.050	0.0013 J	17	< 0.10	0.021
	Aug-20	0.00063 J	0.063	<0.00037	32	<0.0012	<0.0029	0.014 J	<0.00050	5.4	0.23	1.7	<0.00050	<0.0016	17	0.00050335 J	0.019 J
	Aug-21	<0.020	0.069	<0.0020	32	<0.0060	<0.020	<0.020	<0.010	5.2	0.0060	2.0	<0.020	<0.0050	15	<0.010	0.039
	4/14/2022	0.00093 J	0.069	<0.0020	36	<0.0060	0.00089 J	<0.020	<0.00050	6.1	0.013	2.1	<0.0010	<0.0050	23	---	0.016
	8/9/2022	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
North of MW-45	Apr-09	<0.020	0.068	<0.002	35	<0.006	<0.006	0.032	<0.005	6.1	0.18	1.6	<0.050	<0.0050	22	<0.001	0.052
	Aug-09	<0.020	0.041	<0.002	22	<0.006	<0.006	<0.02	<0.005	4.1	0.004	1.1	<0.050	<0.0050	11	<0.001	<0.05
	Apr-10	<0.020	0.065	<0.002	35	<0.006	<0.006	0.026	<0.005	6.5	0.025	1.8	<0.050	<0.0050	25	<0.001	<0.05
	Aug-10	<0.020	0.069	<0.002	35	<0.006	<0.006	0.036	<0.005	6	0.0099	1.8	<0.050	<0.0050	19	<0.001	<0.05
	Apr-11	<0.001	0.058	<0.002	33	<0.006	<0.006	<0.02	<0.005	6.1	0.015	1.8	<0.001	<0.0050	21	<0.001	<0.01
	Aug-11	<0.001	0.06	<0.002	33	<0.006	<0.006	<0.02	<0.005	5.8	0.0079	1.6	<0.001	<0.0050	16	<0.001	0.035
	Apr-12	<0.001	0.057	<0.002	34	<0.006	0.0071	<0.02	<0.005	5.9	0.016	1.6	<0.001	<0.0050	22	<0.001	0.011
	Aug-12	<0.001	0.049	<0.002	31	<0.006	<0.006	<0.02	<0.005	5.2	0.0047	1.6	<0.001	<0.005	17	<0.001	0.018
	Apr-13	< 0.0010	0.073	< 0.0020	38	< 0.0060	< 0.0060	< 0.020	< 0.0010	6.3	0.023	2.0	< 0.0010	< 0.0050	26	< 0.0010	0.48
	Aug-13	<0.020	0.13	< 0.0020	34	< 0.0060	< 0.0060	9.7	<0.0050	5.1	0.06	3.4	<0.050	<0.0050	39	<0.10	<0.020
	Apr-14	< 0.020	0.071	< 0.0020	42	< 0.0060	< 0.0060	0.033	< 0.0050	6.9	0.022	2.0	< 0.050	< 0.0050	32	< 0.10	< 0.020
	Aug-14	< 0.0010	0.076	< 0.0020	37	< 0.0060	< 0.0060	0.27	< 0.0010	6.0	0.014	2.0	< 0.0010	< 0.0050	21	< 0.0010	< 0.010
	Apr-15	< 0.020	0.056	< 0.0020	44	< 0.0060	< 0.0060	< 0.020	< 0.0050	6.8	0.01	2.2	< 0.050	< 0.0050	34	< 0.10	0.05
	Aug-15	< 0.0010	0.072	< 0.0020	35	< 0.0060	< 0.0060	0.028	< 0.00050	5.5	0.0037	2	< 0.0010	< 0.0050	18	0.00066	0.018
	Apr-16	< 0.0010	0.073	< 0.0020	39	< 0.0060	< 0.0060	< 0.020	< 0.00050	6.1	0.011	1.8	< 0.0010	< 0.0050	27	0.00076	0.014
	Aug-16	< 0.020	0.082	< 0.0020	34	< 0.0060	< 0.0060	0.32	< 0.0050	5.6	0.033	2.3	< 0.050	< 0.0050	20	< 0.10	< 0.020
	Apr-17	< 0.020	0.07	< 0.0020	36	< 0.0060	< 0.0060	0.07	< 0.0050	6.4	0.019	2	< 0.050	< 0.0050	25	< 0.10	< 0.020
	Aug-17	< 0.020	0.069	< 0.0020	32	< 0.0060	< 0.0060	0.011 J	< 0.0050	5.7	0.008	1.8	< 0.050	< 0.0050	16	< 0.10	0.031
	Apr-18	< 0.020	0.055	< 0.0020	32	< 0.0060	< 0.0060	<0.020	< 0.0050	5.7	0.0065	1.8	< 0.050	< 0.0050	20	< 0.10	< 0.020
	Aug-18	< 0.020	0.065	< 0.0020	30	< 0.0060	< 0.0060	<0.020	<0.0050	5.2	0.0028	1.7	< 0.050	< 0.0050	15	< 0.10	0.11
	Apr-19	< 0.020	0.074	< 0.0020	40	< 0.0060	< 0.0060	0.057	< 0.0050	7.3	0.013	2.1	< 0.050	< 0.0050	30	< 0.10	< 0.020
	Aug-19	< 0.020	0.079	< 0.0020	33	< 0.0060	0.011	0.0096 J	<0.0050	6.5	0.0064	2.2	< 0.050	< 0.0050	17	< 0.10	0.018 J
	Aug-20	0.00062191 J	0.060	<0.00037	32	<0.0012	<0.0029	0.011 J	<0.00050	5.4	0.017	1.7	<0.00050	<0.0016	18	0.00051134 J	0.020 J
	Apr-21	<0.0010	0.065	<0.0020	31	<0.0060	<0.0010	<0.020	<0.00050	5.6	0.02	1.9	<0.0010	<0.0050	20	0.00051	<0.010
	Aug-21	<0.020	0.063	<0.0020	32	<0.0060	<0.020	<0.020	<0.010	5.2	0.0059	1.8	<0.020	<0.0050	16	<0.010	0.020
	4/14/2022	0.00092 J	0.067	<0.0020	37	<0.0060	0.022	<0.020	<0.00050	6.2	0.012	2.1	0.00054 J	<0.0050	23	---	0.016
	8/3/2022	0.0013	0.071	<0.0020	38	<0.0060	0.0012	0.015 J	<0.00050	5.4	0.0053	2.1	<0.0010	<0.0050	25	0.00080	0.0052 J

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TABLE 10C
SAN JUAN RIVER ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
Screening Source		Dissolved Metals - NMAC 20.6.2															
Screening Levels		0.01	2.0	0.005	-	0.05	1.0	1.0	0.015	-	0.2	-	0.05	0.05	-	0.03	10.0
North of MW-46	Apr-09	<0.020	**0.064**	<0.002	**36**	<0.006	<0.006	**0.03**	<0.005	**6.1**	**0.017**	**1.7**	<0.050	<0.0050	**23**	<0.001	**0.066**
	Aug-09	<0.020	**0.06**	<0.002	**30**	<0.006	<0.006	<0.02	<0.005	**5.6**	**0.0035**	**1.7**	<0.050	<0.0050	**16**	<0.001	<0.05
	Apr-10	<0.020	**0.065**	<0.002	**35**	<0.006	<0.006	**0.027**	<0.005	**6.5**	**0.025**	**1.8**	<0.050	<0.0050	**25**	<0.001	<0.05
	Aug-10	<0.020	**0.068**	<0.002	**36**	<0.006	<0.006	**0.036**	<0.005	**6**	**0.011**	**1.8**	<0.050	<0.0050	**19**	<0.001	<0.05
	Apr-11	<0.001	**0.58**	<0.002	**33**	<0.006	<0.006	<0.02	<0.005	**6.1**	**0.015**	**1.6**	<0.001	<0.0050	**21**	<0.001	<0.01
	Aug-11	<0.001	**0.06**	<0.002	**32**	<0.006	<0.006	<0.02	<0.005	**5.8**	**0.0087**	**1.6**	<0.001	<0.0050	**16**	<0.001	**0.068**
	Apr-12	<0.001	**0.058**	<0.002	**34**	<0.006	<0.0065	<0.02	<0.005	**5.8**	**0.016**	**1.5**	<0.001	<0.0050	**21**	<0.001	**0.011**
	Aug-12	<0.001	**0.049**	<0.002	**31**	<0.006	<0.006	<0.02	<0.005	**5**	**0.0045**	**1.6**	<0.001	<0.005	**17**	<0.001	**0.013**
	Apr-13	<0.0010	**0.073**	< 0.0020	**38**	< 0.0060	< 0.0060	< 0.020	< 0.0010	**6.4**	**0.027**	**2.0**	< 0.0010	< 0.0050	**26**	< 0.0010	0.26
	Aug-13	<0.020	**0.13**	<0.0020	**35**	< 0.0060	< 0.0060	**11**	<0.0050	**5.2**	**0.096**	**3.2**	<0.050	<0.005	**35**	<0.10	<0.020
	Apr-14	< 0.020	**0.071**	< 0.0020	**41**	< 0.0060	< 0.0060	**0.030**	< 0.0050	**6.8**	**0.015**	**1.9**	< 0.050	< 0.0050	**31**	< 0.10	< 0.020
	Aug-14	**0.0011**	**0.078**	< 0.0020	**37**	< 0.0060	< 0.0060	**0.35**	< 0.0010	**6.1**	**0.020**	**2.0**	< 0.0010	< 0.0050	**21**	< 0.0010	< 0.010
	Apr-15	< 0.020	**0.062**	< 0.0020	**44**	< 0.0060	< 0.0060	**0.028**	< 0.0050	**6.7**	**0.011**	**2.2**	< 0.050	< 0.0050	**33**	< 0.10	**0.023**
	Aug-15	< 0.0010	**0.074**	< 0.0020	**36**	< 0.0060	< 0.0060	**0.085**	< 0.00050	**5.6**	**0.009**	**2**	< 0.0010	< 0.0050	**18**	**0.00067**	**0.028**
	Apr-16	< 0.0010	**0.074**	< 0.0020	**40**	< 0.0060	< 0.0060	**0.022**	< 0.00050	**6.1**	**0.010**	**1.9**	< 0.0010	< 0.0050	**27**	**0.00078**	**0.024**
	Aug-16	< 0.020	**0.086**	< 0.0020	**34**	< 0.0060	< 0.0060	**0.36**	< 0.0050	**5.5**	**0.032**	2.2	< 0.050	< 0.0050	**19**	< 0.10	< 0.020
	Apr-17	< 0.020	**0.067**	< 0.0020	**48**	< 0.0060	< 0.0060	< 0.020	< 0.0050	**7.1**	**0.098**	**2**	< 0.050	< 0.0050	**34**	< 0.10	**0.02**
	Aug-17	< 0.020	**0.071**	< 0.0020	**33**	< 0.0060	< 0.0060	**0.014 J**	< 0.0050	**5.8**	**0.0091**	**1.9**	< 0.050	< 0.0050	**16**	< 0.10	**0.031**
	Apr-18	< 0.020	**0.057**	< 0.0020	**35**	< 0.0060	< 0.0060	**0.033**	< 0.0050	**5.9**	**0.044**	**1.7**	< 0.050	< 0.0050	**22**	< 0.10	< 0.020
	Aug-18	< 0.020	**0.065**	< 0.0020	**31**	< 0.0060	< 0.0060	**0.021**	< 0.0050	**5.2**	**0.0079**	**1.7**	< 0.050	< 0.0050	**15**	< 0.10	**0.081**
	Apr-19	< 0.020	**0.074**	< 0.0020	**47**	< 0.0060	< 0.0060	**0.037**	< 0.0050	**8**	**0.10**	**2.2**	< 0.050	< 0.0050	**36**	< 0.10	< 0.020
	Aug-19	< 0.020	**0.081**	< 0.0020	**34**	< 0.0060	**0.0062**	**0.010 J**	< 0.0050	**6.6**	**0.0066**	**2.3**	< 0.050	**0.0013 J**	**18**	< 0.10	**0.034**
	Aug-20	**0.00064530 J**	**0.062**	<0.00037	**32**	<0.0012	<0.0029	**0.0093 J**	<0.00050	**5.4**	**0.021**	**1.7**	<0.00050	<0.0016	**18**	**0.00051896 J**	**0.035**
	Apr-21	<0.0010	**0.066**	<0.0020	**33**	<0.0060	<0.0010	<0.020	<0.00050	**5.8**	**0.053**	**1.8**	<0.0010	<0.0050	**22**	<0.00050	<0.010
	Aug-21	<0.0050	**0.063**	<0.0020	**31**	<0.0060	<0.0050	**0.021**	<0.0025	**5.1**	**0.0069**	**2.0**	<0.0050	<0.0050	**16**	---	**0.020**
	4/14/2022	**0.00082 J**	**0.069**	<0.0020	**39**	<0.0060	**0.0012**	<0.020	<0.00050	**6.4**	**0.029**	**2.1**	**0.00051 J**	<0.0050	**24**	---	**0.016**
	8/4/2022	**0.0013**	**0.080**	<0.0020	**39**	<0.0060	**0.0014**	**0.25**	**0.00029 J**	**5.8**	**0.018**	**2.4**	**0.00049 J**	<0.0050	**25**	**0.00082**	**0.0075 J**
Downstream	Apr-15	< 0.020	**0.055**	< 0.0020	**47**	< 0.0060	< 0.0060	< 0.020	< 0.0050	**7.2**	**0.062**	**2.1**	< 0.050	< 0.0050	**37**	< 0.10	< 0.020
	Aug-15	< 0.001	**0.077**	< 0.002	**34**	< 0.006	< 0.006	**0.086**	< 0.0005	**5.4**	**0.011**	**1.9**	< 0.001	< 0.005	**18**	**0.0006**	**0.03**
	Apr-16	< 0.0010	**0.072**	< 0.0020	**41**	< 0.0060	< 0.0060	**0.031**	< 0.00050	**6.2**	**0.029**	**1.9**	< 0.0010	< 0.0050	**29**	**0.00084**	**0.013**
	Aug-16	< 0.020	**0.085**	< 0.0020	**34**	< 0.0060	< 0.0060	**0.31**	< 0.0050	**5.5**	**0.032**	**2.3**	< 0.050	< 0.0050	**19**	< 0.10	< 0.020
	Apr-17	< 0.020	**0.068**	< 0.0020	**40**	< 0.0060	< 0.0060	< 0.020	< 0.0050	**6.5**	**0.029**	**1.9**	< 0.050	< 0.0050	**27**	< 0.10	< 0.020
	Aug-17	< 0.020	**0.07**	< 0.0020	**33**	< 0.0060	< 0.0060	**0.010 J**	< 0.0050	**5.8**	**0.012**	**1.8**	< 0.050	< 0.0050	**16**	< 0.10	**0.033**
	Apr-18	< 0.020	**0.058**	< 0.0020	**35**	< 0.0060	< 0.0060	<0.020	< 0.0050	**5.9**	**0.016**	**1.7**	< 0.050	< 0.0050	**22**	< 0.10	< 0.020
	Aug-18	< 0.020	**0.065**	< 0.0020	**31**	< 0.0060	< 0.0060	**0.023**	< 0.0050	**5.2**	**0.0041**	**1.6**	< 0.050	< 0.0050	**15**	< 0.10	**0.040**
	Apr-19	< 0.020	**0.076**	< 0.0020	**44**	< 0.0060	< 0.0060	**0.070**	< 0.0050	**7.7**	**0.026**	**2.2**	< 0.050	< 0.0050	**35**	< 0.10	< 0.020
	Aug-19	< 0.020	**0.080**	< 0.0020	**33**	< 0.0060	**0.0060**	**0.012 J**	< 0.0050	**6.5**	**0.0053**	**2.2**	< 0.050	< 0.0050	**17**	< 0.10	**0.026**
	Aug-20	**0.00064964 J**	**0.061**	<0.00037	**32**	<0.0012	**0.0034 J**	**0.011 J**	<0.00050	**5.4**	**0.021**	**1.7**	<0.00050	<0.0016	**18**	**0.00052525 J**	**0.033**
	Apr-21	<0.0010	**0.066**	<0.0020	**41**	<0.0060	<0.0010	**0.026**	<0.00050	**7.0**	**0.033**	**2.1**	<0.0010	<0.0050	**35**	**0.0008**	<0.010
	Aug-21	<0.0050	**0.063**	<0.0020	**33**	<0.0060	<0.0050	<0.020	<0.0025	**5.4**	**0.018**	**1.9**	<0.0050	<0.0050	**17**	---	**0.018**
	4/14/2022	**0.00081 J**	**0.069**	<0.0020	**44**	<0.0060	**0.00088 J**	<0.020	**0.000097 J**	**7.0**	**0.0370**	**2.2**	**0.00060 J**	<0.0050	**33**	---	**0.011**
	8/4/2022	**0.0012**	**0.076**	<0.0020	**38**	<0.0060	**0.0012**	**0.22**	0.00023 J	**5.4**	**0.020**	**2.2**	**0.00046 J**	<0.0050	**25**	**0.00079**	**0.013**

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TABLE 10C
SAN JUAN RIVER ANALYTICAL SUMMARY
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Sample Location	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
Screening Source		Dissolved Metals - NMAC 20.6.2															
Screening Levels		0.01	2.0	0.005	-	0.05	1.0	1.0	0.015	-	0.2	-	0.05	0.05	-	0.03	10.0

Notes:

= Analytical results exceeds the respective screening level

= Field Duplicate sample

Bold = Detected at concentration above reporting limit

Red = Laboratory reporting limit exceeds screening level

MW = Monitoring Well

< = Result is below laboratory method detection limit

--- = Specific analyte not sampled

µg/L = micrograms per liter

J = Result is estimated

mg/L = Milligrams per liter

NMED = Mew Mexico Environment Department

NMAC = New Mexico Adminstrative Code

NA = Not applicable/No screening level for specific analyte

EPA = Environmental Protection Agency

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-MRO = Total Petroleum Hydrocarbons - Motor Oil Range Organics

WQCC = Water Quality Control Commission

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TABLE 11
WASTEWATER VOLUMES
Bloomfield Terminal 2022 Annual Report
Marathon Petroleum Corporation
San Juan County, New Mexico

Year	API Yearly Total Gallons	API Yearly Total BBLs	Injection Well Total (gallons)	Injection Well Total BBLs	Discharge to Evaporation Ponds Total BBLs
2019	12,868,000	306,381	981,785	23,376	283,005
2020	18,373,000	437,452	1,298,526	30,917	406,535
2021	11,236,000	267,524	1,793,946	42,713	224,811
2022	9,653,000	229,833	315,379	7,509	222,324

Notes:
API = American Petroleum Institute
BBLs = Barrels
NR = Not Recorded

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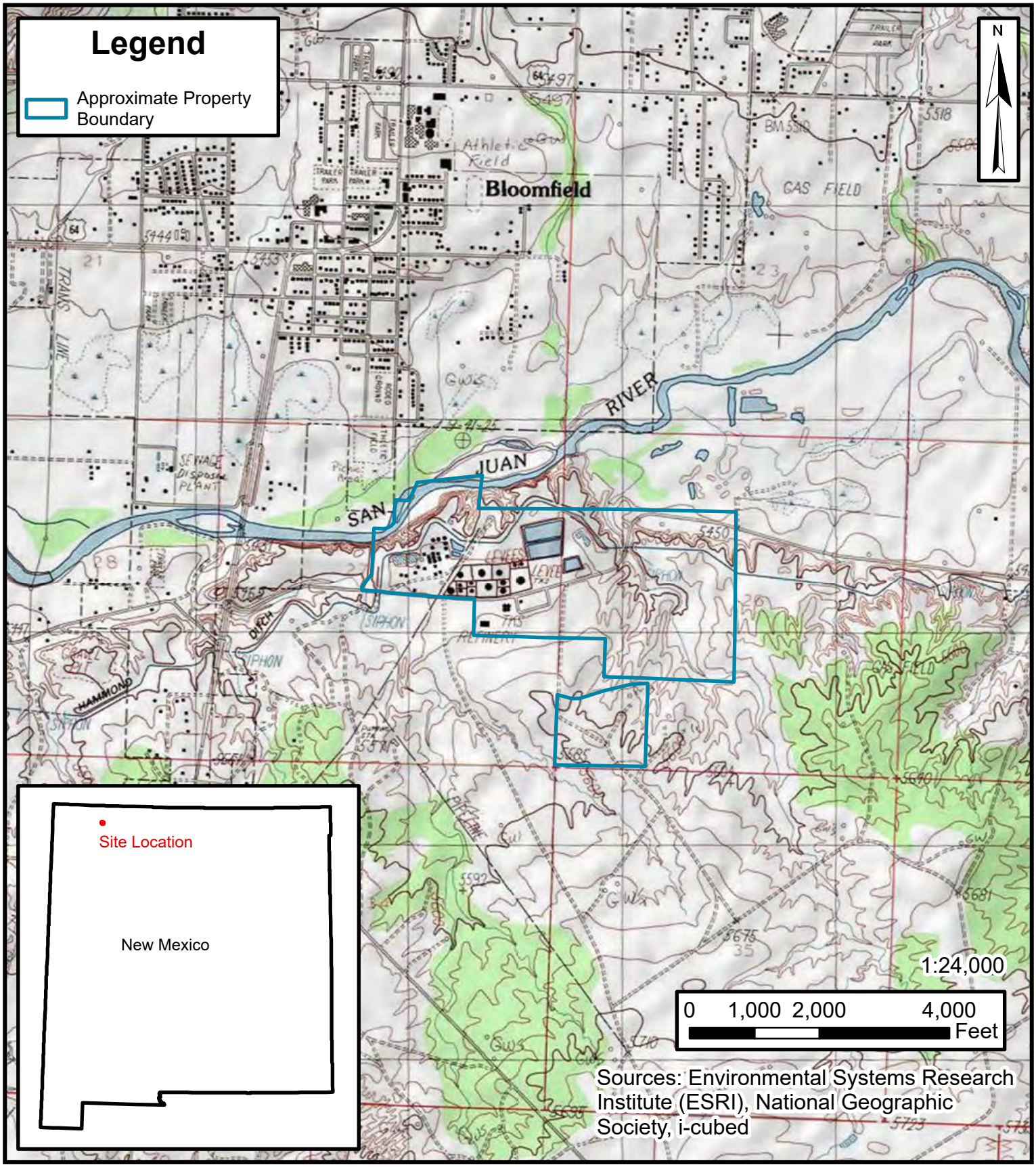
Figures



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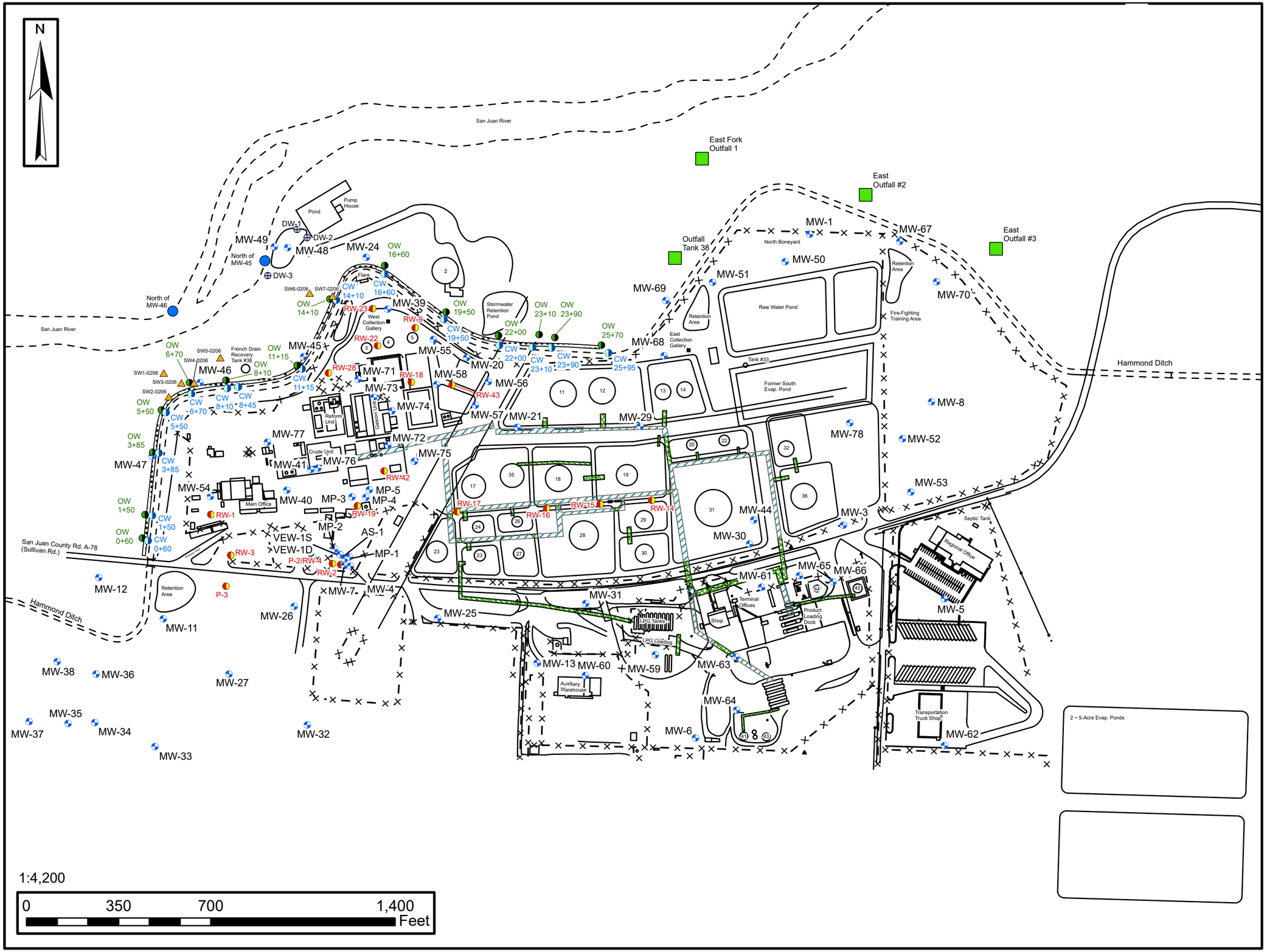
Facility Site Map

Bloomfield Terminal
Western Refining
Southwest, LLC
Sec 26,27, T29S, R11W
San Juan County, New Mexico

FIGURE

1

Drafted: May 2023



Legend

- Collection Well
- Dewatering Well
- Monitoring Well
- Observation Well
- Recovery Well
- Sump Well
- Outfall
- River Sample Point
- Fence
- Above Ground Pipe
- Underground Pipe
- Barrier Wall

Well Location Map

Bloomfield Terminal
Western Refining
Southwest, LLC

Sec 26,27, T29S, R11W
San Juan County, New Mexico

Figure 2

Drafted: May 2023

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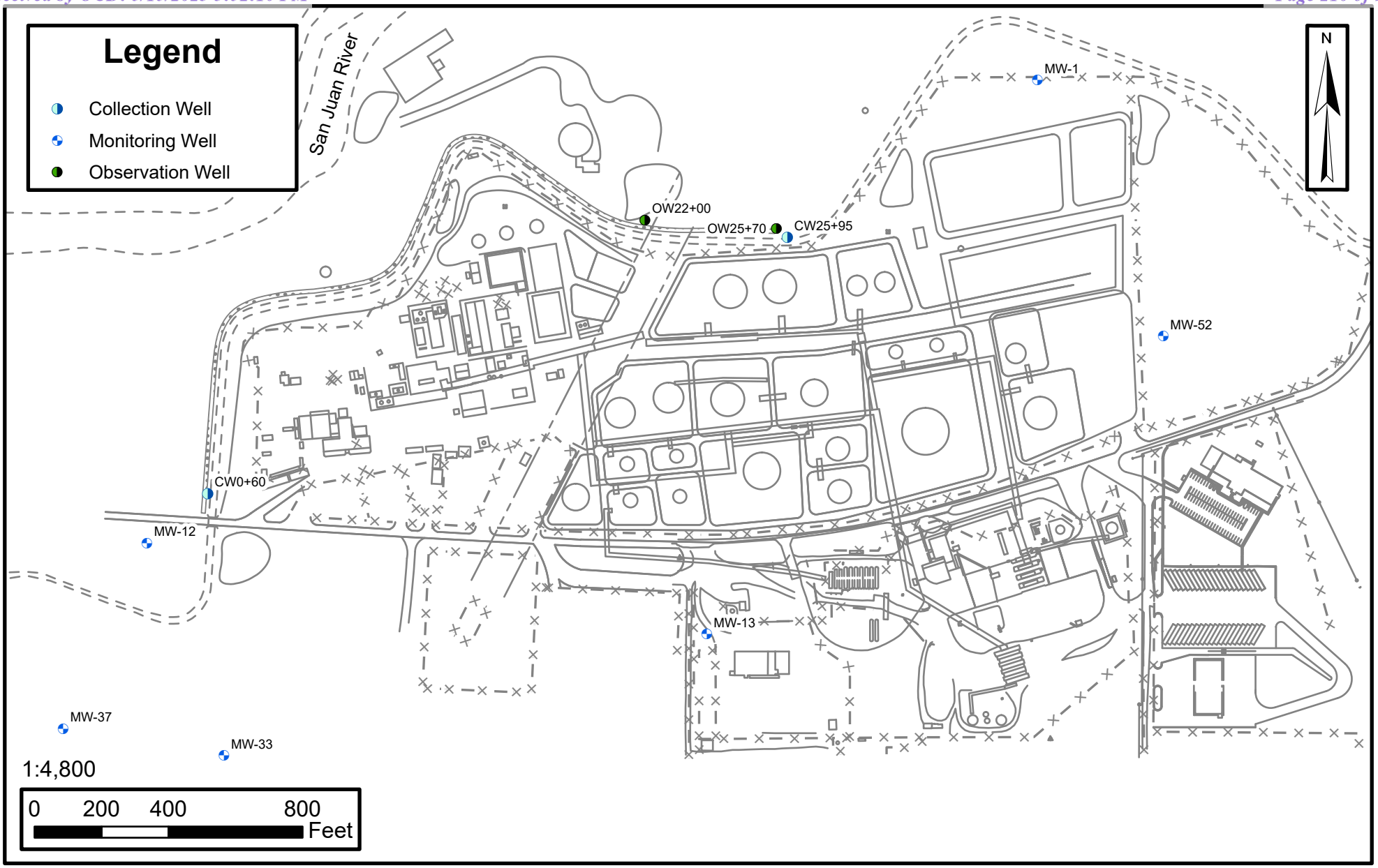

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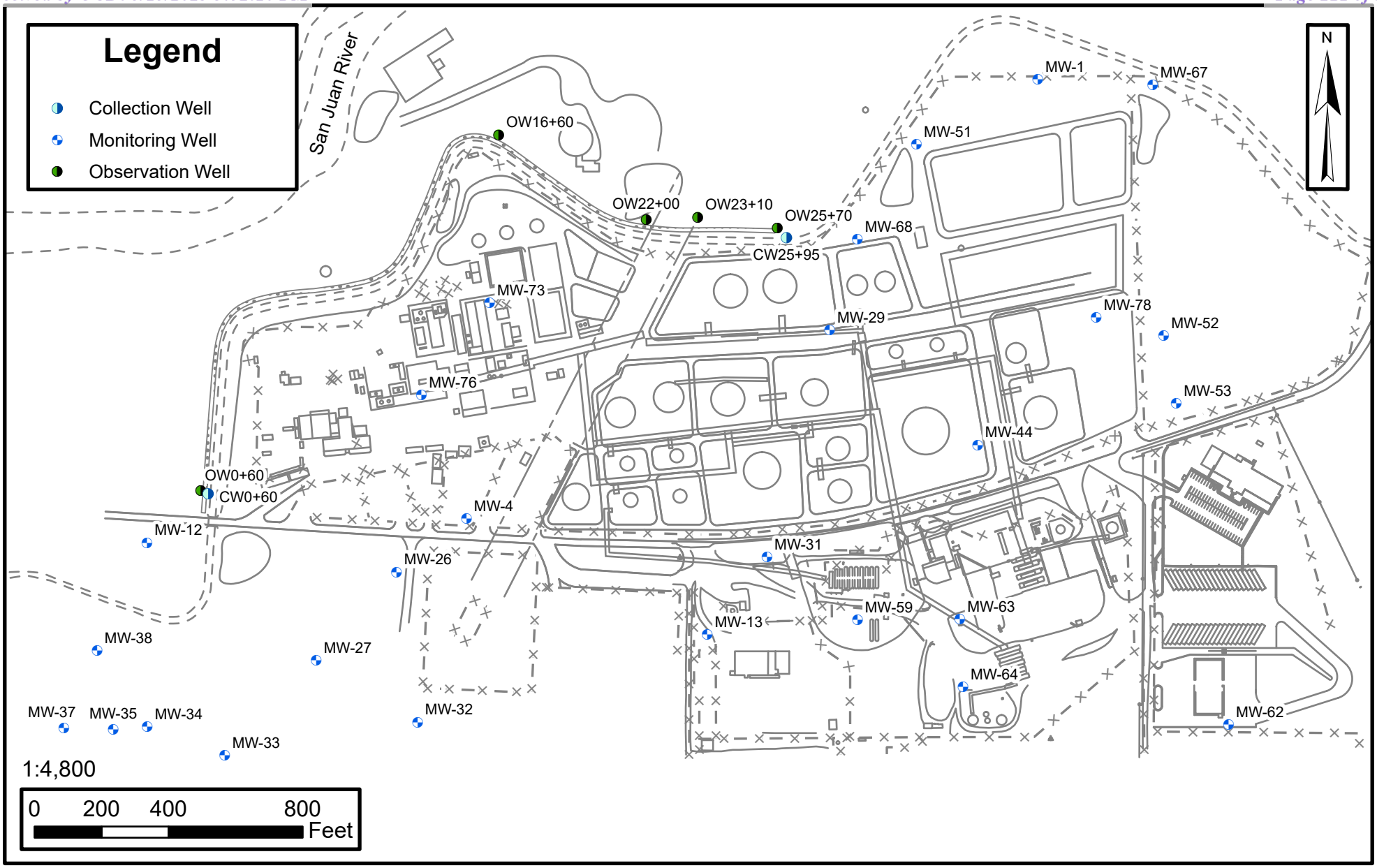
Wells Sampled - April 2022

Bloomfield Terminal
Western Refining Southwest, LLC

Sec 26,27, T29S, R11W
San Juan County, New Mexico

FIGURE
3

Drafted: May 2023



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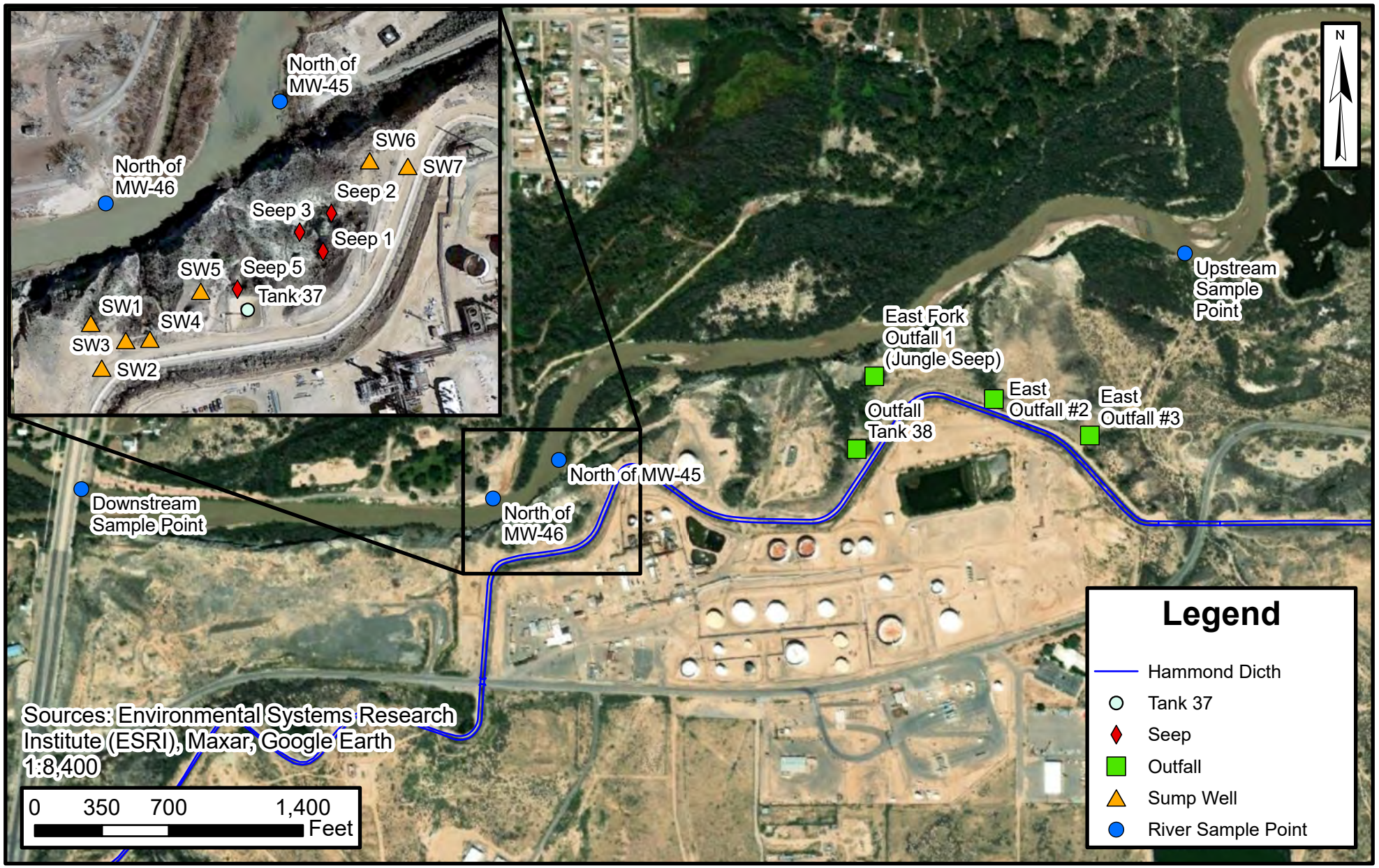
Wells Sampled - August 2022

Bloomfield Terminal
Western Refining Southwest, LLC

Sec 26,27, T29S, R11W
San Juan County, New Mexico

FIGURE
4

Drafted: May 2023



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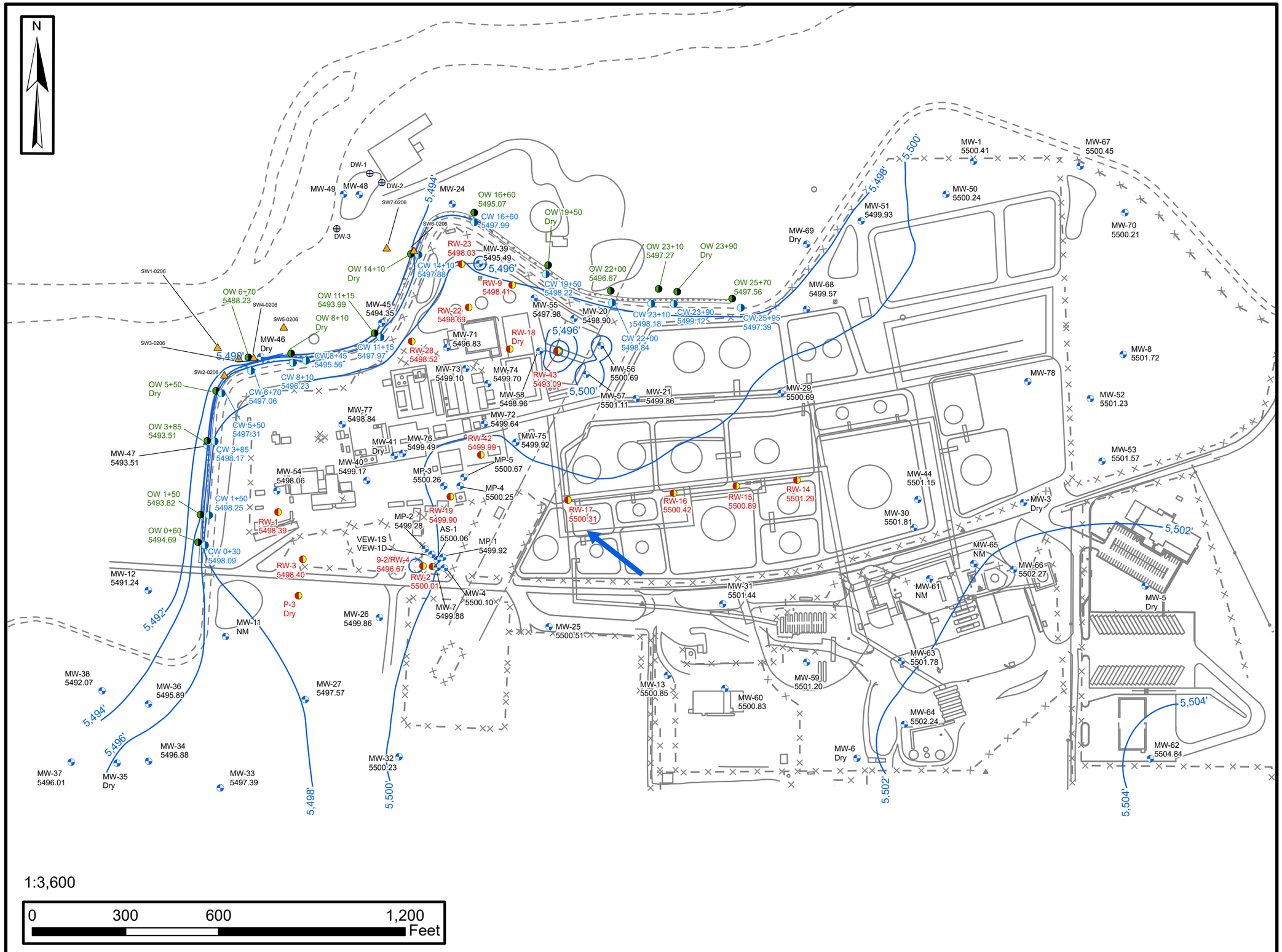
San Juan River Area Location Map

Bloomfield Terminal
Western Refining Southwest, LLC

Sec 26,27, T29S, R11W
San Juan County, New Mexico

FIGURE
5

Drafted: May 2023



Legend

- Groundwater Elevation Contours
- Collection Well
- Dewatering Well
- Monitoring Well
- Observation Well
- Recovery Well
- Sump Well
- Estimated Groundwater Flow Direction

Notes:
Groundwater Elevation in Feet Above Mean Sea Level
NM: Not Measured

Groundwater Elevation
April 2022

Bloomfield Terminal
Western Refining
Southwest, LLC
Sec 26,27, T29S, R11W
San Juan County, New Mexico

Figure
6

Drafted: May 2023

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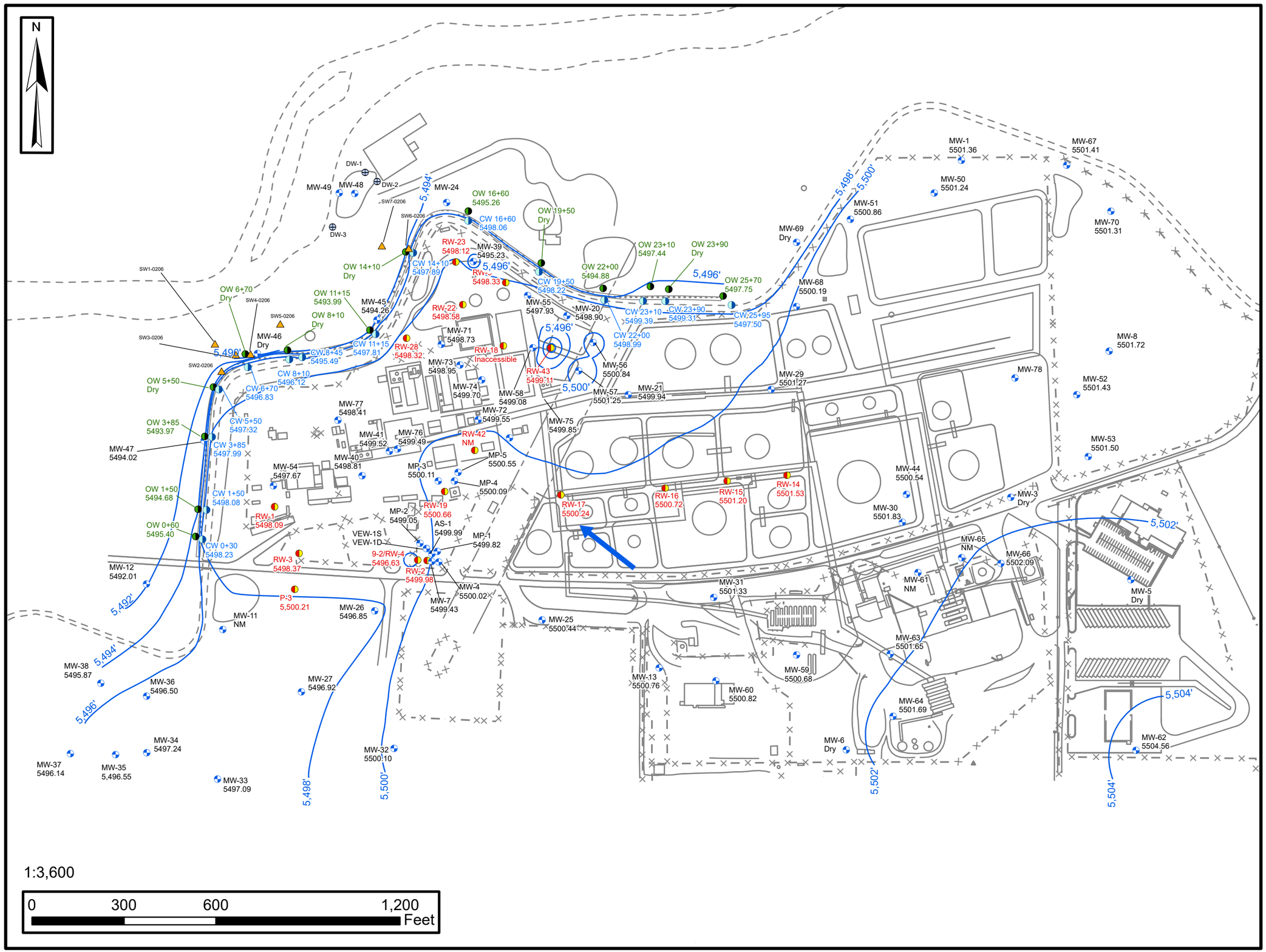

Legend

- Groundwater Elevation Contours
- Collection Well
- Dewatering Well
- Monitoring Well
- Observation Well
- Recovery Well
- Sump Well
- Estimated Groundwater Flow Direction

Notes:
Groundwater Elevation in Feet Above Mean Sea Level
NM: Not Measured

Groundwater Elevation August 2022

Bloomfield Terminal
Western Refining
Southwest, LLC
Sec 26,27, T29S, R11W
San Juan County, New Mexico

Figure 7

Drafted: May 2023

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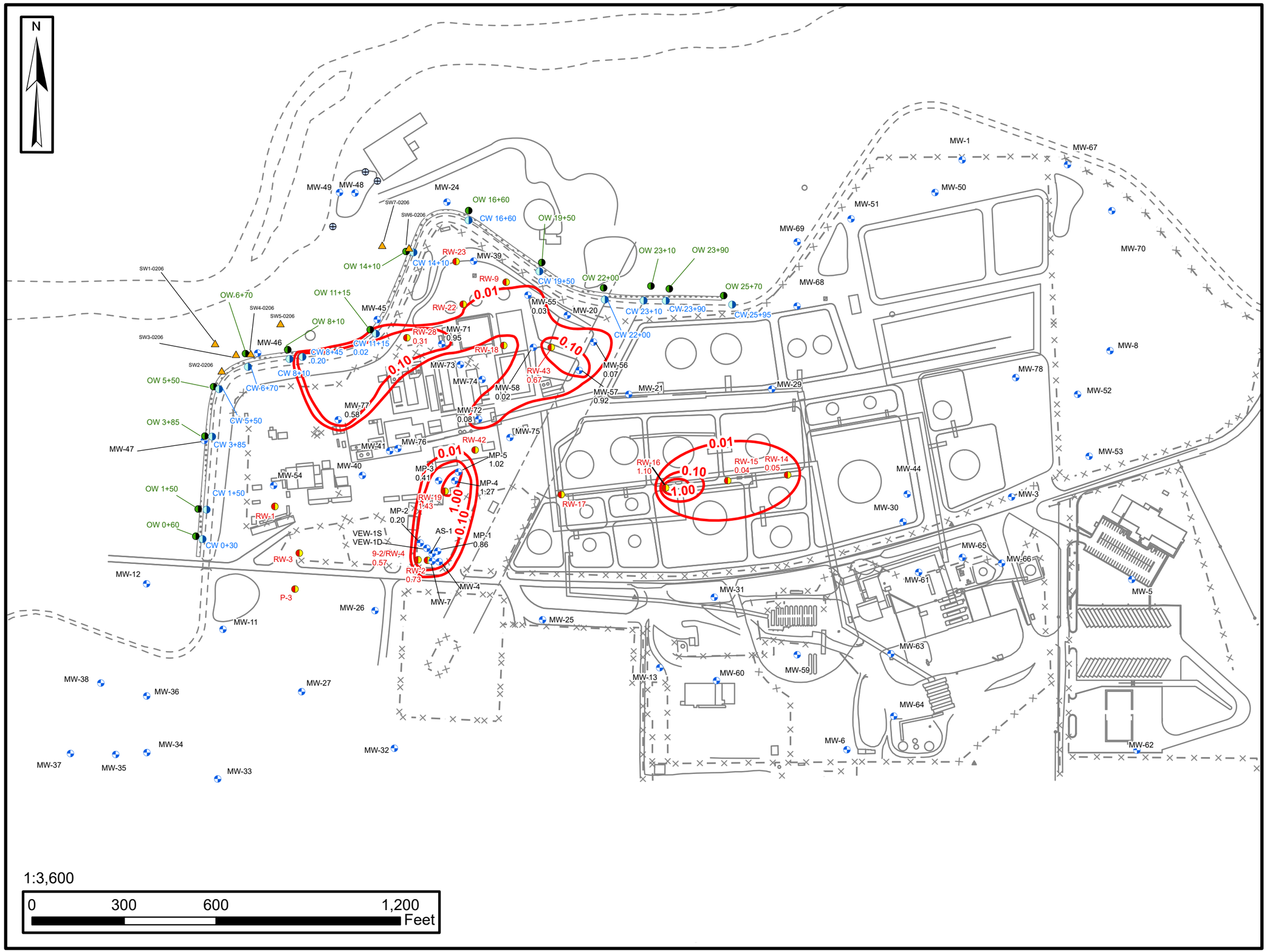

Legend

- Collection Well
- Dewatering Well
- Monitoring Well
- Observation Well
- Recovery Well
- Sump Well
- Product Thickness Isopleth Contour

Notes:
Product Thickness in Feet

Product Thickness April 2022

Bloomfield Terminal
Western Refining
Southwest, LLC
Sec 26,27, T29S, R11W
San Juan County, New Mexico

Figure 8

Drafted: May 2023

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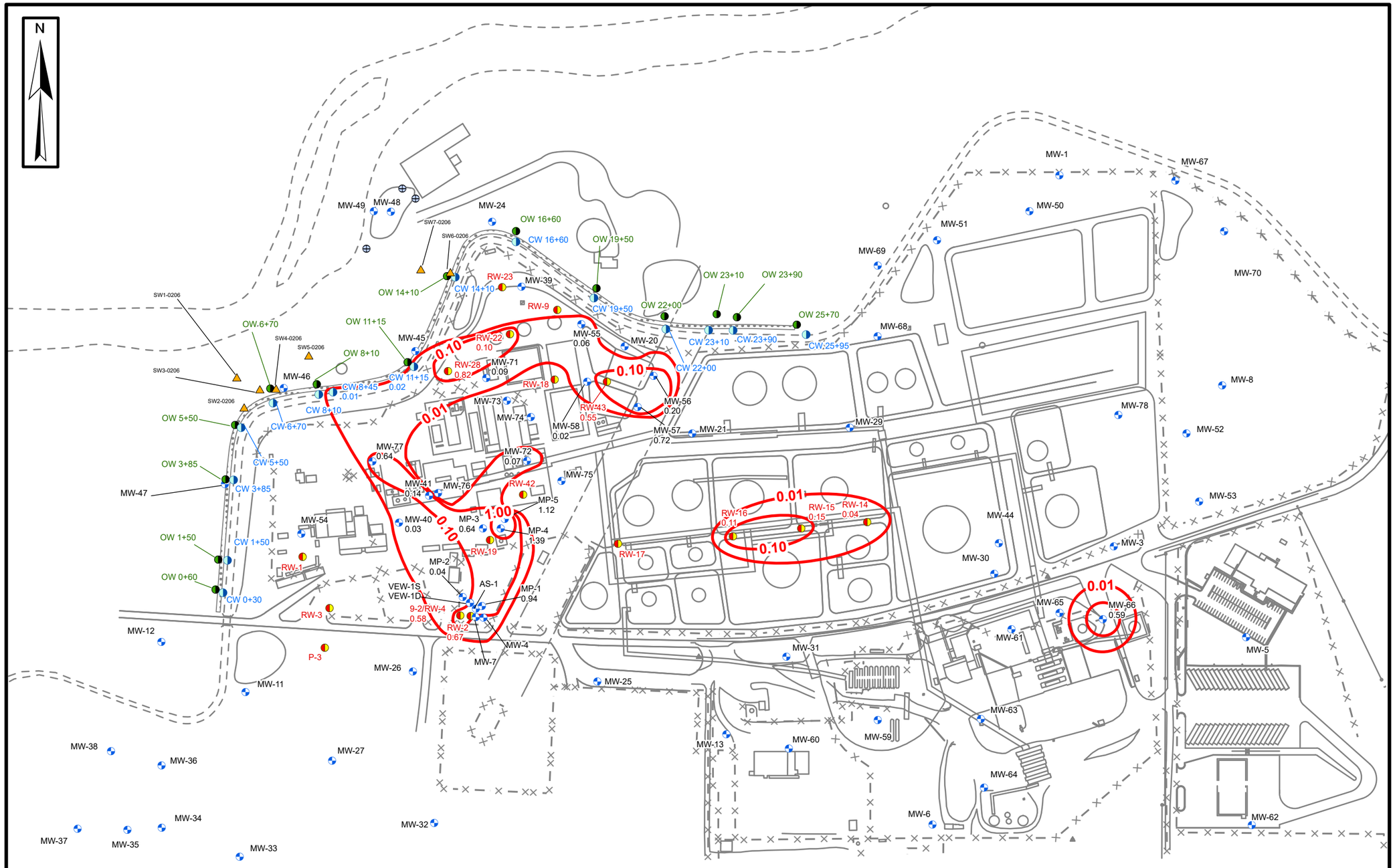

Legend

- Collection Well
- Dewatering Well
- Monitoring Well
- Observation Well
- Recovery Well
- Sump Well
- Product Thickness Isopleth Contour

Notes:
Product Thickness in Feet

Product Thickness
August 2022

Bloomfield Terminal
Western Refining
Southwest, LLC
Sec 26,27, T29S, R11W
San Juan County, New Mexico

Figure
9

Drafted: May 2023

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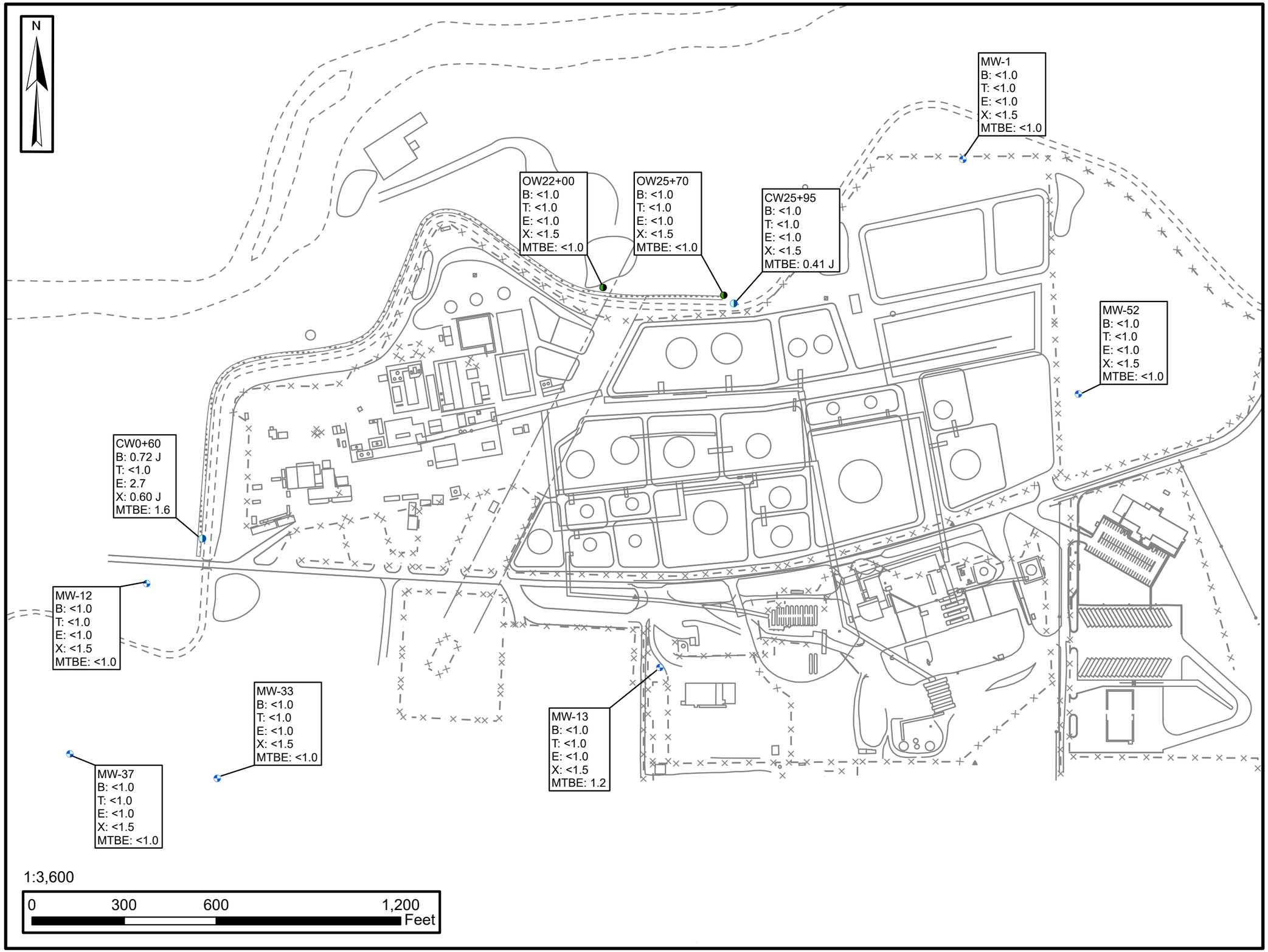

Legend

- Collection Well
- Monitoring Well
- Observation Well

Notes:
B: Benzene in Micrograms per Liter (µg/L)
T: Toluene (µg/L)
E: Ethylbenzene (µg/L)
X: Total Xylenes (µg/L)
MTBE: Methyl Tert-butyl Ether (µg/L)
< : Indicates Results Below Laboratory Reporting Limit
J: Indicates Result is Estimated

BTEX and MTBE Concentration Map April 2022

Bloomfield Terminal
Western Refining Southwest, LLC
Sec 26,27, T29S, R11W
San Juan County, New Mexico

Figure 10

Drafted: May 2023

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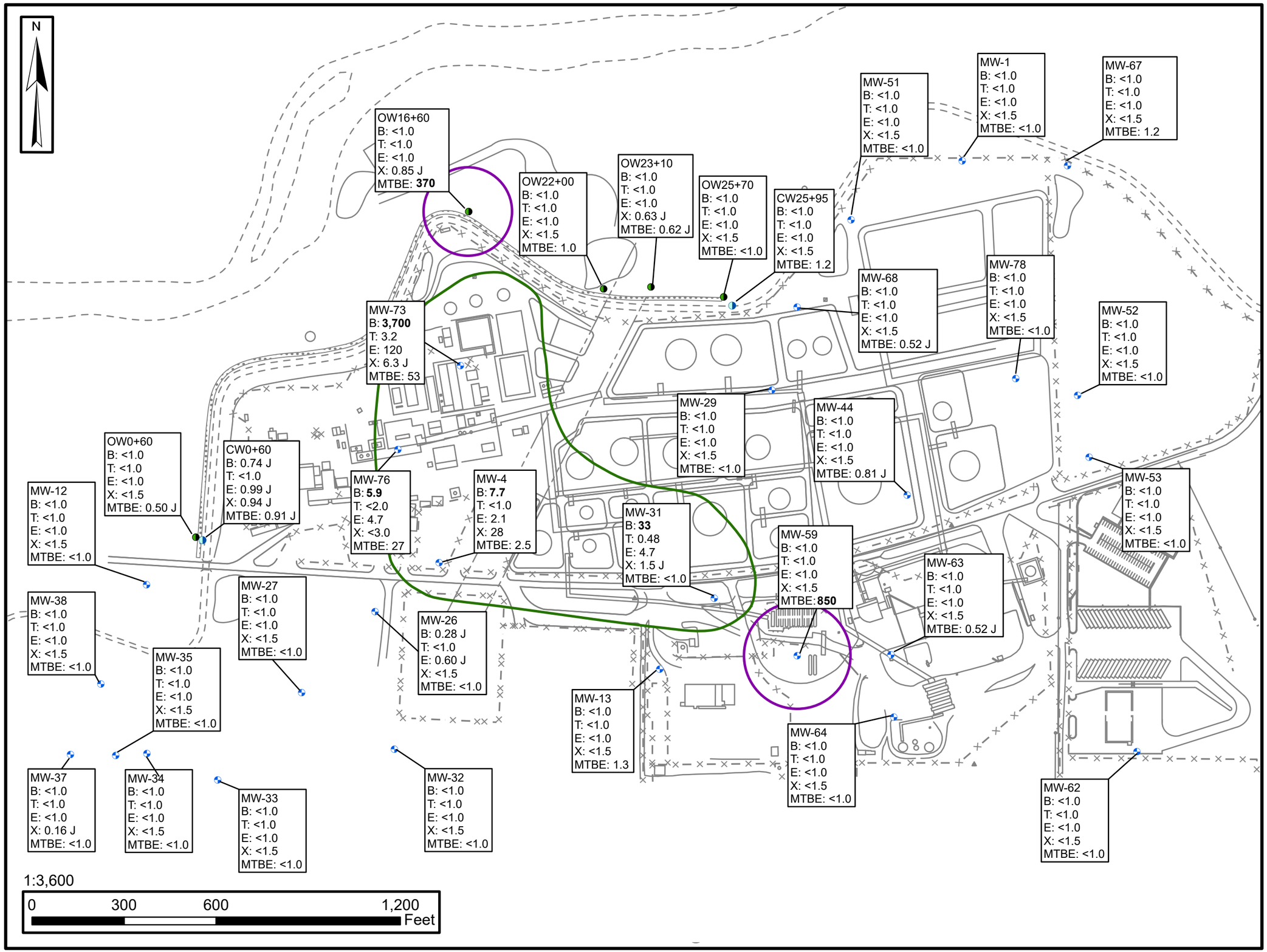

Legend

- Collection Well
- Monitoring Well
- Observation Well
- Approximate Benzene Plume Exceeding NMAC 20.6.2
- Approximate MTBE Plume Exceeding NMAC 20.6.2

Notes:
B: Benzene in Micrograms per Liter (µg/L)
T: Toluene (µg/L)
E: Ethylbenzene (µg/L)
X: Total Xylenes (µg/L)
MTBE: Methyl Tert-butyl Ether (µg/L)
< : Indicates Results Below Laboratory Reporting Limit
Bold: Indicates Result Exceed NMAC 20.6.2 Standards
J: Indicates Result is Estimated

BTEX and MTBE Concentration Map August 2022

Bloomfield Terminal
Western Refining Southwest, LLC
Sec 26,27, T29S, R11W
San Juan County, New Mexico

Figure 11

Drafted: May 2023

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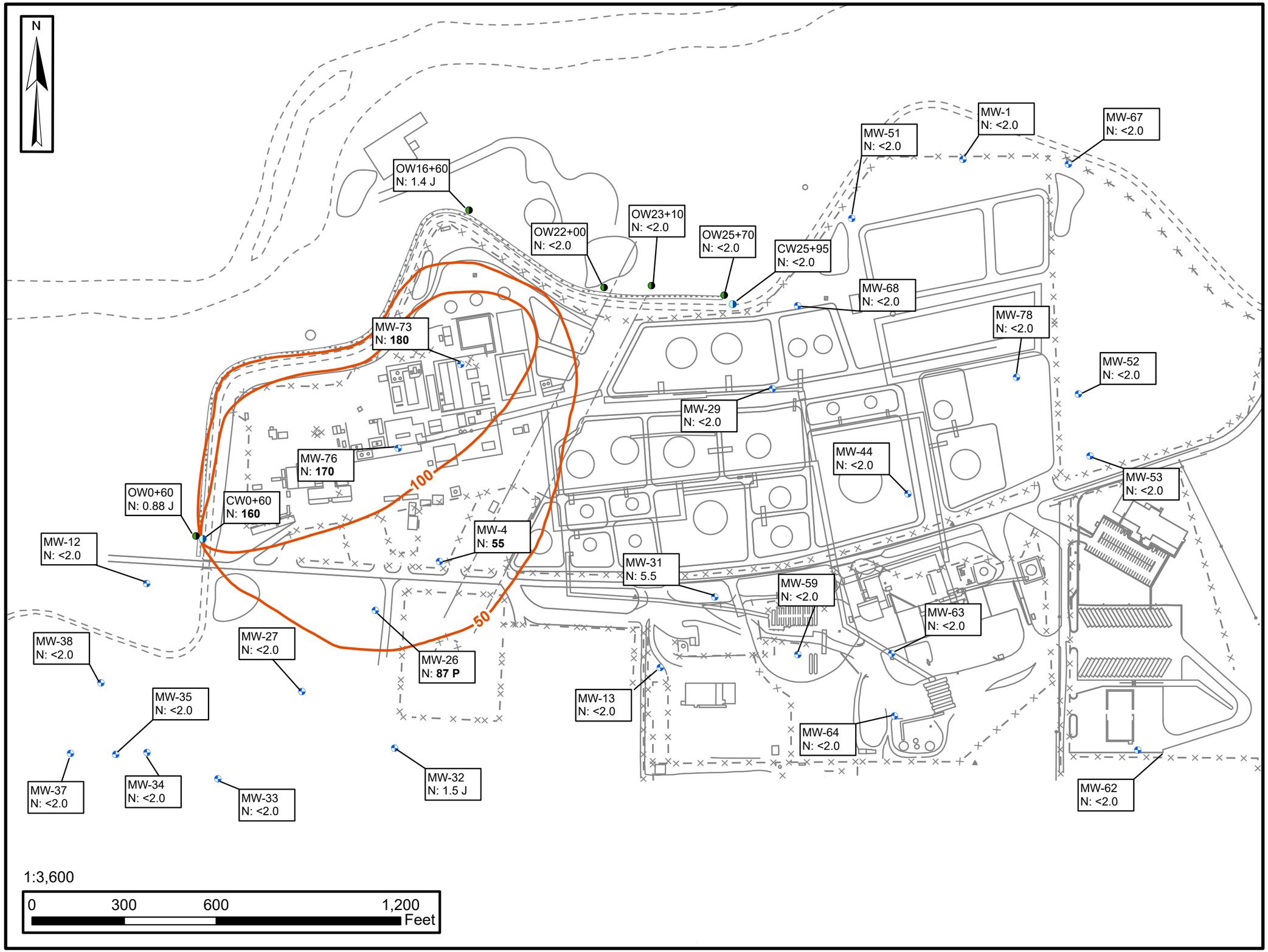

Legend

Approximate Naphthalene Concentration Contours

2022 August Sampling

Well Type

- Collection Well
- Dewatering Well
- Monitoring Well
- Observation Well
- Recovery Well
- Sump Well
- <all other values>

Notes:
N: Naphthalene in Micrograms per Liter (µg/L)
< : Indicates Result Below Laboratory Reporting Limit
Bold: Indicates Result Exceed NMED soil Screening Guidance Table A-1 (Tap Water)
J: Indicates Result is Estimated
P: Indicates Sample pH Not in Range

Naphthalene Concentration Map August 2022
Bloomfield Terminal
Western Refining Southwest, LLC
Sec 26,27, T29S, R11W
San Juan County, New Mexico

Figure 12

Drafted: May 2023

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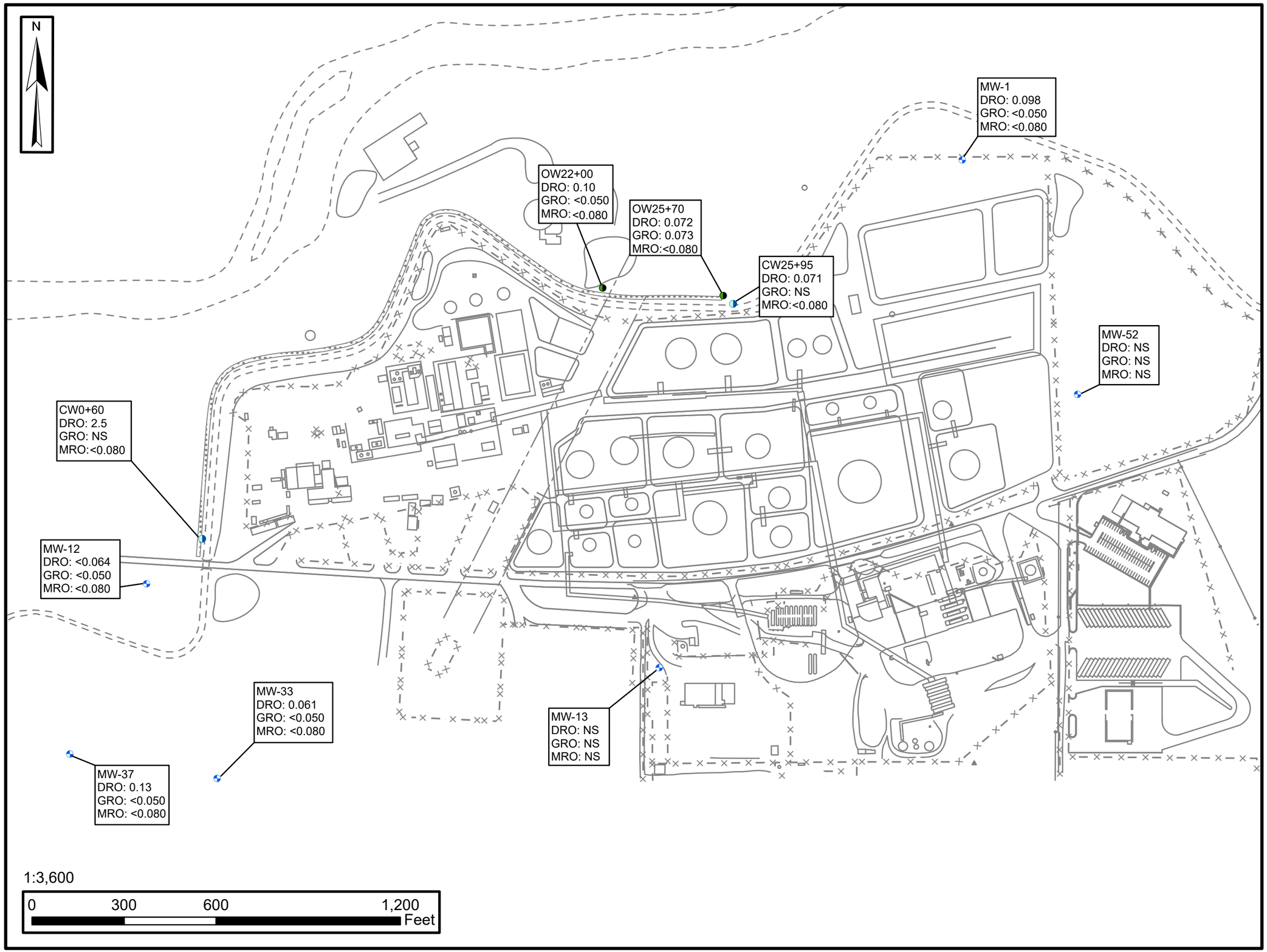

Legend

- Collection Well
- Monitoring Well
- Observation Well

Notes:
DRO: Diesel Range Organics in Milligrams per Kilogram (mg/kg)
GRO: Gasoline Range Organics (mg/kg)
MRO: Motor Oil Range Organics (mg/kg)
Bold: Indicates Results Exceed NMED Soil screening Guidance Table 6-4
< : Indicates Results Below Laboratory Reporting Limit
J: Indicates Result is Estimated
NS: Not Sampled

TPH Concentration Map April 2022

Bloomfield Terminal
Western Refining
Southwest, LLC

Sec 26,27, T29S, R11W
San Juan County, New Mexico

Figure 13

Drafted: May 2023

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N

OW16+60
DRO: 3.7
GRO: 0.81
MRO: 0.16

OW22+00
DRO: 0.14
GRO: <0.050
MRO: <0.080

OW23+10
DRO: 1.4
GRO: 0.11
MRO: 0.16

OW25+70
DRO: 0.064 J
GRO: 0.03
MRO: <0.080

CW25+95
DRO: 1.1
GRO: 0.096
MRO: 0.73

MW-51
DRO: 0.11
GRO: <0.050
MRO: 0.10

MW-1
DRO: 0.036
GRO: <0.050
MRO: <0.080

MW-67
DRO: 0.78
GRO: <0.050
MRO: 0.11

MW-68
DRO: 0.022 J
GRO: <0.050
MRO: <0.080

MW-78
DRO: 0.55 J
GRO: <0.050
MRO: <0.080

MW-52
DRO: 0.098
GRO: <0.050
MRO: 0.062

MW-73
DRO: 3.30
GRO: 16
MRO: <0.080

MW-76
DRO: 2.9
GRO: 0.74
MRO: 0.66 J

MW-29
DRO: 0.10
GRO: <0.050
MRO: <0.080

MW-44
DRO: 0.072
GRO: <0.050
MRO: <0.080

MW-53
DRO: 0.10
GRO: <0.050
MRO: <0.080

OW0+60
DRO: 1.10
GRO: 0.082
MRO: 0.095

CW0+60
DRO: 2.6
GRO: 1.9
MRO: <0.080

MW-4
DRO: 2.2
GRO: 1.0
MRO: <0.080

MW-12
DRO: <0.064
GRO: <0.050
MRO: <0.080

MW-31
DRO: 1.5
GRO: 0.36
MRO: 0.94

MW-59
DRO: 0.50
GRO: 0.85
MRO: <0.080

MW-63
DRO: NS
GRO: <0.050
MRO: NS

MW-38
DRO: 0.19
GRO: 0.012 J
MRO: <0.080

MW-27
DRO: 0.25
GRO: <0.050
MRO: 0.15

MW-26
DRO: 2.0
GRO: 0.47 P
MRO: <0.080

MW-35
DRO: 0.30
GRO: 0.20
MRO: <0.080

MW-13
DRO: 0.21
GRO: <0.050
MRO: <0.080

MW-64
DRO: 0.074
GRO: <0.050
MRO: <0.080

MW-37
DRO: 0.073
GRO: <0.050
MRO: <0.080

MW-34
DRO: 0.37
GRO: 0.17
MRO: <0.080

MW-33
DRO: NS
GRO: <0.050
MRO: NS

MW-32
DRO: 0.048 J
GRO: <0.050
MRO: 0.080 J

MW-62
DRO: 0.020 J
GRO: <0.050
MRO: <0.080

1:3,600

0 300 600 1,200 Feet

Legend

2022 August Sampling

Well Type

- Collection Well
- Dewatering Well
- Monitoring Well
- Observation Well
- Recovery Well
- Sump Well
- <all other values>

Notes:
DRO: Diesel Range Organics
GRO: Gasoline Range Organics
MRO: Motor Oil Range Organics
Bold: Indicates Results Exceed NMED Soil screening Guidance Table 6-4
< : Indicates Results Below Laboratory Reporting Limit
J: Indicates Result is Estimated
NS: Not Sampled

TPH Concentration Map August 2022

Bloomfield Terminal
Western Refining
Southwest, LLC

Sec 26,27, T29S, R11W
San Juan County, New Mexico

Figure 14

Drafted: May 2023

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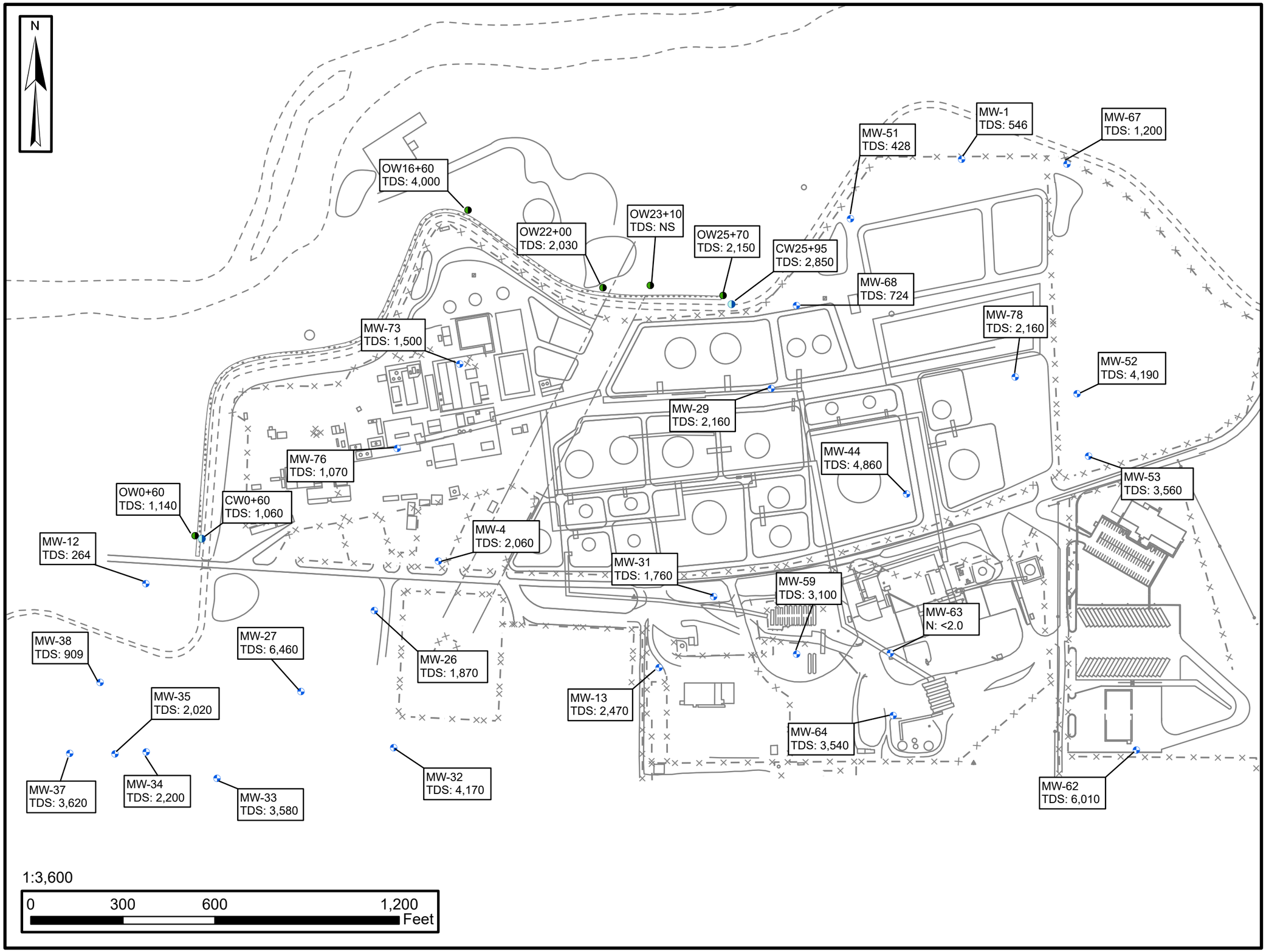

Legend

2022 August Sampling

Well Type

- Collection Well
- Dewatering Well
- Monitoring Well
- Observation Well
- Recovery Well
- Sump Well
- <all other values>

Notes:
TDS: Total Dissolved Solids in Milligrams per Liter (mg/L)
NS: Not Sampled

TDS Concentration Map August 2022

Bloomfield Terminal
Western Refining
Southwest, LLC

Sec 26,27, T29S, R11W
San Juan County, New Mexico

Figure 15

Drafted: May 2023

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APPENDIX A

Historical Operations and Improvements

APPENDIX A
Historical Operations and Improvements
Bloomfield Terminal 2022 Annual Report

Year	Facility Operations and Improvements
1986	• Relocated the spent caustic tank onto a concrete pad with retaining walls.
1987	• Upgraded the Reformer and increased its capacity to 3,600 barrels per day (bpd). Modified the Laboratory and Treater Unit and increased tank storage capacity. • Cleaned up the North and South bone yards. • Decommissioned and dismantled old Tanks 6 and 7. • Relocated the API recovered oil Tank 8 and Tank 9 to concrete pads with concrete retaining walls. • Established a systematic inspection, maintenance, and repair program for tanks.
1988	• Added a 2,000 bpd Catalytic Polymerization Unit. Removed the facility's two underground storage tanks and replaced them with aboveground storage tanks. • Completed installation of a Cathodic Protection System for the Tank Farm and underground piping. • Rebuilt the process area sewer system and added curbed, concrete paving to the unpaved process areas.
1989	• Increased Reformer throughput to 4,000 bpd. • Activated the groundwater hydrocarbon recovery system. • Constructed the first double-lined Evaporation Pond as part of Refinery's Discharge Plan improvements.
1990	• Constructed the second double-lined Evaporation Pond as part of the Refinery's Discharge Plan improvements. • Constructed a drum storage shed and converted to bulk chemical usage, where possible, in order to minimize the use of drummed chemicals.
1991	• Revamped the burner fuel sales rack with concrete paving and curbing. • Submitted the permit application for a Class 1 Disposal Well. • Upgraded the groundwater hydrocarbon recovery system.
1992	• Submitted an air quality permit application. The application included a proposal to install a Diesel Hydrodesulphurization (HDS) Unit and a Sulfur Recovery Unit (SRU) in order to comply with new Environmental Protection Agency (EPA) low-sulfur diesel regulations and decrease air emissions.
1993	• Began a program under a Consent Agreement with the United Stated Environment Protection Agency (USEPA) to conduct Interim Measures (IM), a RCRA Facility Investigation (RFI) and a Corrective Measures Study (CMS) addressing groundwater contamination. • Replaced portions of the underground cooling water piping. • Added concrete paving around the API Separator. • Installed the HDS Unit and SRU.

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Year	Facility Operations and Improvements
1994	• Completed installation of the Class 1 Injection Well. • Retrofitted the Aeration Lagoons with two additional liners. • Installed a floating cover for the API Separator. • Closed the clay-lined evaporation ponds and spray evaporation area.
1995	• Improved the diking south of the Refinery to further reduce storm water runoff. • Began implementation of additional corrective measures for groundwater cleanup as determined from the CMS.
1998	• Converted the former evaporation ponds on the east side of the Refinery to raw water storage ponds.
1999	• Installed sheet pilings and a bentonite slurry wall adjacent to the San Juan River, North of the process units, in order to intercept a small hydrocarbon seep that had been detected in the area.
2001	• Initiated a program to inoculate the Aeration Lagoons with sludge-consuming microorganisms.
2002	• A concrete liner was installed on the Hammond Ditch. At that time, Giant constructed the Hammond Ditch French Drain Recovery System to address contamination under the ditch.
2003	• Several monitoring wells were converted into recovery wells to further enhance the continuing ground water remediation efforts. MW-45, MW-46 & MW-47 were installed to facilitate sample collection. East Outfall #1 Recovery System was set up to return impacted water back to the refinery.
2004	• Monitoring wells MW-48, MW-49 and eight temporary piezometers were installed as part of Voluntary River Terrace Investigation activities. • Several temporary piezometers were drilled on the north side of Hammond Ditch to determine the surface elevation of the Nacimiento Formation. Design of a slurry wall to be constructed on the north side of Hammond Ditch was completed. • Lined containments were constructed in the draws north of Hammond Ditch in order to collect potentially contaminated groundwater which discharged to the land surface. • Sewer lines were replaced in the Treater and FCC.
2005	• The North Boundary Barrier Wall installation was completed March 2005. Fourteen observation wells were installed on the north side of the slurry wall and fifteen collection wells were installed on the south side of the slurry wall in April 2005. • As a matter of preventive maintenance, the lined containments in the draws north of the slurry wall were upgraded periodically. • In April, five more temporary piezometers were installed at the River Terrace. In August, Dewatering Wells (DW-1 and DW-2) and thirteen bioventing wells were drilled, and construction of the River Terrace Bioventing Project was initiated.

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APPENDIX A
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Year	Facility Operations and Improvements
2006	• The River Terrace Bioventing System was put on-line in January 2006. Monitoring data from that project is submitted in a separate report to the regulatory agencies. • During the week of February 13, 2006 seven sump wells were installed along the bluff north of the barrier wall. These wells were drilled in accordance with the North Barrier Wall Work Plan which was submitted to OCD February 7, 2006. • Fluids extraction from the observation and collection wells, the north draws, and the sump wells continued throughout 2006. • As a matter of preventive maintenance, the lined containments in the draws north of the slurry wall were upgraded periodically.
2007	• On May 31, 2007, Giant Industries, Inc. became a wholly owned subsidiary of Western Refining, Inc. of El Paso, Texas. • Construction of the Ammonia Refrigeration Unit (ARU) was completed and the system put online by March 2007. This unit is used to recover propane from hydrogen streams. • Construction of the Benzene Stripper was completed, and the system put in service by October 2007. This unit is used to strip benzene from process wastewater. • Discharge piping was installed at RW #1 to increase the recovery capacity of the well. • As a matter of preventive maintenance, the lined containments in the draws north of the slurry wall (Seeps 1-9) were upgraded periodically.
2008	• The Facility-Wide Groundwater Monitoring Plan (Revised May 2008) was approved and implemented in the latter half of 2008. • In September, Group No. 2 RCRA Site Investigation activities commenced. Areas included in Group No. 2 are SWMU No. 2, SWMU No. 8, SWMU No. 9, SWMU No. 11, and SWMU No. 18. • As part of the Closure Plan North and South Aeration Lagoons the ponds were drained, cleaned out, inspected, repaired, and put back in service. This process started in October 2008 and was completed in February 2009.
2009	• In March, monitoring wells were installed around the Aeration Lagoons to satisfy Group No. 1 RCRA site investigation requirements. Group No. 3 Site Investigation activities began in April. This group includes SWMU No. 4, SWMU No. 5, AOC No. 22, AOC No. 23, AOC No. 24, AOC No. 25, and AOC No. 26. • On November 23, 2009, Western Refining indefinitely suspended refining operations at the Bloomfield Refinery. The crude unloading and product loading racks, storage tanks and other supporting equipment remain in operation.

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APPENDIX A
Historical Operations and Improvements
Bloomfield Terminal 2022 Annual Report

Year	Facility Operations and Improvements
2010	• In January 2010, due to analytical results indicating high benzene levels, piping was installed to permanently route discharge water from Tank 33 to the API Separator. • In August, Group No. 4 and Group No. 5 investigation field activities were conducted which included the installation of three monitoring wells.
2011	• In August 2012, Group No. 6 RCRA Investigation activities were conducted, which involved soil sampling within each of the Seep Areas located along the northwest portion of the facility.
2012	• In January 2012 the group 8 RCRA Investigation activities commenced, which involved soil sampling within SMWU No. 3 – Underground Piping Currently in Use, and SWMU No. 6 – Abandoned Underground Piping. • On October 12, 2012, NMED Hazardous Waste Bureau approved a Work Plan submitted by Western dated October 9, 2012 authorizing Western to optimize the remediation efforts at the River Terrace. Optimization activities conducted in 2012 included the removal of approximately 250 cubic yards of impacted clay-type soil from the River Terrace, and conversion of a portion of the biovent system to an air sparging system in efforts to target the most impacted groundwater area located within the southwest corner of the River Terrace. • In the third quarter 2012, Western commenced work that involves enhancement of the total fluids recovery system. This work involves transitioning five monitoring wells (MW 20, MW- 55, MW-56, MW-57, and MW-58) and one recovery well (RW-3) to operational total fluids recovery wells. RW-3 was returned to operation by the fourth quarter 2012. Operation of the monitoring wells located near the aeration lagoons is expected to begin in April 2013.
2013	• In the first quarter 2013, Western completed work that involves enhancement of the total fluids recovery system. This work involved transitioning five monitoring wells to active total fluids recovery wells (MW-20, MW-55, MW-56, MW-57, and MW-58). Operation of the monitoring wells located near the aeration lagoons has commenced. • In June 2013, Western removed two former diesel dispenser pumps, storage tank, associated piping, former fueling pad and approximately 500 cubic yards of soil. Soil samples confirmed all the impacted soil was removed from the immediate vicinity of the former diesel fueling pumps. • In 2013 Western replaced Tank 37, Tank 38 and Tank 34 with new equivalent tanks. Tank 37 and Tank 34 containments were also lined. • Well MW-70 was developed on May 22, 2013 and baseline samples were collected on June 13, 2013.

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APPENDIX A
Historical Operations and Improvements
Bloomfield Terminal 2022 Annual Report

Year	Facility Operations and Improvements
2014	• In 2014 Western Refining preformed an environmental site investigation for the SWMUs designated as Group 9 and SWMU No. 27 Wastewater Collection System. Group 9 includes SWMU No. 12 (API Separator), SWMU No. 13 (Process Area) and SWMU No. 14 (Tanks 3, 4, and 5) • In August 2014, NMED was notified of a significant rain event that resulted in severe flash flooding in the Bloomfield, New Mexico area. The storm caused the Hammond ditch to reverse flow directions, resulting in the entire roadway along the north boundary barrier to fill with water. The significant run-off along the river bluff resulted in Seep 4, Seep 6, Seep 7, Seep 8 and Seep 9 to permanently erode away due to the heavy surface run-off. Prior to the flooding event, these locations were no longer actively collecting seep water due to the existence of the north boundary barrier and had previously been investigated as part of the 2007 Consent Order. Therefore, as of August 2014, the only existing catchment locations are Seep 1, Seep 2, Seep 3, and Seep 5.
2015	• In 2015 routine groundwater and surface water sampling were conducted per the approved Facility-Wide Groundwater Monitoring Plan.
2016	• Routine groundwater and surface water sampling were conducted in 2016.
2017	• The terminal operated as usual in 2017 without any deviations from normal operations. • There were no reportable leaks, spills, or releases in 2017. There was no indication of expanding groundwater contamination and routine corrective action was implemented to address the known plume. • Fluids were observed in the leachate collection system in the North and South Evaporation ponds, as was also previously observed in prior years since the ponds were constructed. A summary of the fluids was previously provided in correspondence to the OCD dated June 23, 2017. • Information on the volume of water placed in the evaporation ponds and ultimately disposed in the injection well is provided in the Annual Report for the injection well. The new injection well was put into service in 2017, the details of which are provided in the Annual Report for the injection well. • Routine groundwater and surface water sampling were conducted in 2017. • Discharge Permit GW-001 was renewed on June 8, 2017.

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APPENDIX A
Historical Operations and Improvements
Bloomfield Terminal 2022 Annual Report

Year	Facility Operations and Improvements
2018	• The terminal operated as usual in 2018 without any deviations from normal operations. • On May 17, 2018 a release of slop oil was discovered at a culvert that crosses beneath County Road 4990. The material described as slop oil consists of petroleum products that originate at the truck loading rack and crude oil that originates at the crude oil unloading rack. The pipeline was evacuated of hydrocarbons and free liquids were removed. Impacted soils were removed and the excavation was backfilled due to potential traffic hazards along the immediately adjacent county road. In October 2018 an Investigation Work Plan was submitted to OCD and NMED. • Routine groundwater and surface water sampling were conducted in April and August 2018.
2019	• The terminal operated as usual in 2019 without any deviations from normal operations. • Routine groundwater and surface water sampling events were conducted in April and August 2019.
2020	• The terminal operated as usual in 2020 without any deviations from normal operations. • A routine groundwater and surface water sampling event was conducted in August 2020. Fluid level measurements were collected in May and August 2020.
2021	• The routine semiannual full terminal sampling event, including fluid level measurements, was conducted in April 2021. • The routine annual low-flow full terminal sampling event, including fluid level measurements, was conducted in August 2021.
2022	• The routine semiannual full terminal sampling event, including fluid level measurements, was conducted in April 2022. • The routine annual low-flow full terminal sampling event, including fluid level measurements, was conducted in August 2022.

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APPENDIX B

Bloomfield Terminal 2022 Sample Collection Documentation

AECOM

Monitor Well Gauging Form

6501 Americas Pkwy
Albuquerque, NM 87110
Tel: 505.855.7500
Fax: 505.855.7555

Site: Bloomfield Terminal
Date: 2022 Semiannual
Gauge Event - April 2022

Monitor Well	Depth to Product	Depth to Water	Total Depth	Date/Time	Notes
Refinery Complex - Background Wells					
MW-3	—	Dry	36.50	1105	Dry @ 38.00
MW-5*	—	Dry	31.20	1507	
MW-6*	—	Dry	47.55	1520	Dry @ 52
Refinery Complex - Refinery Wells					
MW-4	—	27.68	19.67	1022	
MW-7	—	27.78	19.89	1020	4-11-22
MW-8	—	32.86	18.89	1111	4-11-22
MW-20*	—	21.00	20.09	1159	
MW-21	22.32	22.39	20.48	1141	4.11.22
MW-25		33.48	41.25	1627	
MW-29	—	24.28	19.15	1137	4-11-22
MW-30*	—	35.02	40.22	1100	4-11-22
MW-31	—	34.80	39.23	1526	
MW-36	—	21.06	22.93	1606	
MW-39	—	25.34	38.23	1205	4.11.22
MW-40	—	28.14	29.75	0945	4-11-22 broken well vault
MW-41	—	—	31.30	0957	4-11-22 dry @ 31.38 black sludge @ bottom
MW-44	—	34.29	51.00	1101	
MW-45	—	12.01	16.78	1311	4.11.22
MW-46	—	dry	10.51	1252	dry @ 10.10
MW-47	—	13.26	14.17	1233	4.11.22
MW-52	—	37.40	41.78	1109	4-11-22
P-02/RW-4	27.08	27.65	38.1	1013	4-11-22
P-03	—	—	22.81	—	inaccessible
BCK-1	—	77.47	80.65	1504	4.11.22
BCK-2	—	26.20	46.98	1533	4-11-22
RW-01*	—	30.95	40.85	0930	4-11-22
RW-02*	26.59	27.42	35.2	1016	4-11-22
RW-03	—	21.95	33.8	1632	4-11-22
RW-09*	—	24.80	33.9	1214	4.11.22
RW-14	36.20	36.25	41.85	1052	4-11-22
RW-15	35.93	35.97	42.1	1047	4-11-22
RW-16*	34.81	34.91	43.15	1042	4-11-22
RW-17	—	33.53	38.89	1038	4-11-22
RW-18*	—	—	37.8	—	inaccessible
RW-19	30.32	31.75	35.2	1004	4-11-22
RW-22	—	25.75	35.4	1210	4-11-22
RW-23*	—	23.35	35.6	1206	4-11-22
RW-28*	29.35	29.66	37.1	0942	4-11-22
RW-42	—	27.49	32.15	1033	4-11-22
RW-43*	26.80	27.47	24.25	1147	4-11-22
Refinery Complex - Cross-Gradient Wells					
MW-1	—	18.80	21.4	1134	4-11-22
MW-13	—	41.19	52.92	1544	4-11-22
MW-26*	—	19.02	25.18	1611	4-11-22
MW-27	—	21.10	24.51	1614	4-11-22
MW-32	—	25.41	27.61	1015	
MW-33	—	24.40	25.56	1617	4-11-22
Refinery Complex - Downgradient Wells					
MW-11	—	—	21.99	1562	inaccessible - wasps
MW-12	—	10.37	13.49	1550	
MW-34	—	14.75	15.2	1601	
MW-35	—	DRY	26	1600	Dry at 22.55
MW-37	—	23.61	27.43	1556	
MW-38	—	27.12	26.92	0950	
Refinery Complex - RCRA Investigation Wells					
MW-50	—	18.55	22.05	1133	4.11.22
MW-51	—	15.65	22.03	1131	4/11/22
MW-53	—	39.75	43.6	1107	4-11-22
MW-54*	~~32.0~~	32.02	41.22	0935	4-11-22
MW-55*	21.85	21.88	26	1202	4.11.22
MW-56*	18.61	18.68	23.62	1155	4.11.22
MW-57*	19.88	~~19.88~~ 20.80	24	1143	4.11.22
MW-58*	~~21.33~~ 21.33	21.35	27.35	1150	4.11.22
MW-59	—	44.00	46.94	1523	4.11.22
MW-60*	—	42.88	43.47		
MW-61*	—	—	40.58		inaccessible
MW-62	—	—	61.38		inaccessible
MW-63	—	45.48	47.89	1516	
MW-64	—	50.55	52.41	1519	
MW-65	—	—	44.3		destroyed
MW-66*	—	42.35	45.58	1512	
MW-67	—	22.76	26.12	1118	4/11/22
MW-68	—	17.80	21.14	1129	4-11-22
MW-69*		dry	12.06	1411	dry @ 12.10
MW-70	—	27.75	28.75	1115	4/11/22
MW-71*	33.01	32.06	38.09	1218	4.11.22
MW-72*	28.88	28.96	34.9	1222	4.11.22
MW-73	—	29.82	36.83	1220	4.11.22
MW-74*	—	29.22	33.95	1224	4.11.22
MW-75*	—	28.84	32.38	1031	4/11/22
MW-76	—	29.12	34.13	0947	
MW-77*	28.63	29.21	34.4	0938	4-11-22
MW-78	—	33.16		1123	4-11-22

Monitor Well	Depth to Product	Depth to Water	Total Depth	Date/Time	Notes
North Boundary Barrier - Collection Wells					
CW 0+60	—	8.59	14.15	1636	
CW 1+50	—	6.88	13.42	1640	
CW 3+85	—	5.70	13.3	1235	4.11.22
CW 5+50	—	~~dry~~ 6.45	12.31	1242	~~dry @ 13.84~~
CW 6+70	—	6.78	~~6.97~~ 6.90	1254	4.11.22
CW 8+10	—	7.79	11.42	1304	4.11.22
CW 8+45	8.20	8.40	12.67	1306	4.11.22 no well cap
CW 11+15	5.98	6.00	12.34	1309	4.11.22
CW 14+10	—	6.51	12.99	1314	4.11.22
CW 16+60	—	6.33	12.97	1319	4.11.22
CW 19+50	—	6.30	10.04	1324	4.11.22
CW 22+00	—	~~11.80~~ 9.20	12.4	~~1407~~ 1419	4.11.22
CW 23+10	—	11.86	14.72	1401	4.11.22
CW 23+90	—	6.20	11.81	1404	4.11.22
CW 25+95		8.51	12.15	1408	
North Boundary Barrier - Observation Wells					
OW 0+60*	—	11.93	12.32	1637	
OW 1+50*	—	14.21	14.42	1639	
OW 3+85*	—	13.80	15.22	1233	4.11.22
OW 5+50*	—	dry	13.82	1240	dry @ 13.84 4.11.22
OW 6+70*	—	dry	16.55	1248	dry @ 16.90 4.11.22
OW 8+10	—	dry	16.1	1303	dry @ 16.10
OW 11+15*	—	12.71	16.75	1310	4.11.22
OW 14+10*	—	dry	13.07	1316	dry @ 13.05
OW 16+60*	—	13.56	15.31	1327	4.11.22
OW 19+50	—	dry	13.09	1325	dry @ 13.0
OW 22+00	—	10.24	14.22	1418	4.11.22
OW 23+10*	—	10.85	18.2	1401	4.11.22
OW 23+90	—	dry	18.13	1406	dry @ 18.15
OW 25+70	—	11.44	14.04	1409	4.11.22
Sump Wells					
SW1-0206	—	52.38	53.15	1245	4.11.22
SW2-0206	—	25.31	27.78	1244	4.11.22
SW3-0206	—	26.98	52.64	1247	4.11.22
SW4-0206	—	dry	42.4	1250	dry @ 43.9
SW5-0206	—	33.86	52.33	1258	4.11.22
SW6-0206	—	~~20.85~~	47.48	1317	4.11.22
SW7-0206			32.12		
River Terrace					
MW-48	—	7.32	16.78	1436	No Cap or Lid
MW-49	—	Dry/Roots	9.65		Dry/Roots @ 10 ft
DW-1	—	6.18	15.64	1424	
DW-2	—	—	15.32	1425	Inaccessible
DW-3	—	4.31	12.7	1437	
Collection	—	6.30	15.15	1439	
TP-3	—	7.12	12.43	1441	
TP-5	—	—	8.88		destroyed
TP-6	—	5.62	9.98	1436	
TP-7	—	6.05	9.78	1427	4.11.22
TP-8	—	~~6.03~~ 5.55	9.99	1429	4.11.22
TP-9	—	5.16	11	1428	4.11.22
TP-10	—	5.05	9.98	1442	
TP-11	—	5.54	9.99	1444	
TP-12	—	7.36	11.61	1445	
TP-13	—	6.26	12.9	1446	
Miscellaneous					
MP-1	26.25	27.11	29.84	1024	4-11-22
MP-2	27.02	27.22	29.75	1010	4-11-22
AS-1	—	26.28	29.41	1025	4-11-22 Spotty Product
VEW-1S	—	Dry	12.82	1027	Dry @ 12.87 4.11.22
VEW-1D	—	Dry	25.82	1028	Dry @ 25.90 4.11.22
MP-3	28.41	28.82	30.68	0957	4-11-22
MP-4	28.25	29.52	32.98	0957	4-11-22
MP-5	27.88	28.90	31.67	0955	4-11-22

Notes:

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Groundwater Sample Field Data Form

Well Identification MW-1

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	MW-1
Location:	Bloomfield, NM	**Sample Date:**	4/13/22
Date:	4/13/2022	**Sample Time:**	1130

Equipment

Purging Method/Equipment	bailer / 3 vol
Sampling Equipment	horiba
Filtering Equipment	—

Field Parameters

Initial Water Temp. (C)	
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	2.60
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	1.69
Depth to Water (ft below TOC)	18.80	Total Purge Volume	5
Total Depth (ft below TOC)	21.40	Number of Purge Volumes	~~3~~ <3

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	11.32	7.41	1.07	57	18.54	457	1115	
1	11.40	7.17	0.934	36	10.49	452	1118	
2	11.50	7.08	0.817	-25	9.84	493	1121	
3	11.48	7.03	0.804	-42	6.66	<999	1124	
4	11.87	6.99	0.802	-61	5.08	<999	1127	
5	12.19	6.96	0.802	-63	4.58	<999	1130	

Total Volumes Removed (gallons): 5 **Time:** 1130 **Purged Dry (Y/N):** N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Cloudy / orange
no odor
no sheen

Katie Humphrey 4-13-2022

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Groundwater Sample Field Data Form

Well Identification: MW-12

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	MW-12
Location:	Bloomfield, NM	**Sample Date:**	4/12/2022
Date:	4/12/2022	**Sample Time:**	1345

Equipment

Purging Method/Equipment	bailer / 3 vol
Sampling Equipment	nonba
Filtering Equipment	—

Field Parameters

Initial Water Temp. (C)	
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	4.0	Length of Static Water Column (ft)	3.12
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	2.028
Depth to Water (ft below TOC)	10.37	Total Purge Volume	4
Total Depth (ft below TOC)	13.49	Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
initial	14.92	6.56	0.0	115	8.79	91.0	1325	roots, cloudy, brown
1	11.71	6.84	0.916	120	7.28	140	1330	
2	10.91	6.80	0.920	111	3.65	400	1335	
3	10.65	6.82	0.917	120	2.28	7999	1340	
4	10.09	6.83	0.940	126	6.03	7999	1345	

Total Volumes Removed (gallons): 4 **Time:** 1345 **Purged Dry (Y/N):** N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

roots, cloudy brown
no sheen
no odor

4-12-2022

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Groundwater Sample Field Data Form

Well Identification MW-13

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	MW-13
Location:	Bloomfield, NM	**Sample Date:**	4/13/2022
Date:	4/13/2022	**Sample Time:**	1006

Equipment

Purging Method/Equipment	bailer / 3 vol
Sampling Equipment	Hanna
Filtering Equipment	—

Field Parameters

Initial Water Temp: (C)	
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	11.73
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	7.62
Depth to Water (ft below TOC)	41.19	Total Purge Volume	7
Total Depth (ft below TOC)	52.92	Number of Purge Volumes	0.92

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	14.25	6.88	2.92	18	12.27	0.0	0945	
1	13.60	6.20	0.0	16	11.01	76.6	0948	
2	13.84	6.81	2.88	10	8.11	0.0	0951	
3	14.36	6.60	2.92	20	6.32	0.0	0954	
4	14.64	6.87	2.97	16	6.51	0.0	0957	
5	14.87	6.72	2.90	22	6.46	0.0	1002	
6	15.31	6.69	2.91	24	6.32	0.0	1003	
7	15.11	6.72	2.89	23	6.35	0.0	1006	

Total Volumes Removed (gallons): 7 **Time:** ~~1000~~ 1006 **Purged Dry (Y/N):** N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Collected MS/MSD

Clear
No Sheen
no odor

Katie Humphrey 4-13-2022

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Groundwater Sample Field Data Form

Well Identification MW-33

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	MW-33
Location:	Bloomfield, NM	**Sample Date:**	4/12/2022
Date:	4/12/2022	**Sample Time:**	1520

Equipment

Purging Method/Equipment	bailer / 3 vol
Sampling Equipment	horiba
Filtering Equipment	—

Field Parameters

~~Initial Water Temp. (C)~~	
Initial pH:	
~~Initial Conductance (mS/cm):~~	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	1.16
Unit Casing Volume (gal/ft)	0.165	Casing Water Volume (gal)	0.754
Depth to Water (ft below TOC)	24.40	Total Purge Volume	—
Total Depth (ft below TOC)	25.56	Number of Purge Volumes	—

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description

Total Volumes Removed (gallons): — **Time:** 1520 **Purged Dry (Y/N):** N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Insufficient water to purge - grab sample without purging
no HC odor
no sheen

4-12-2022

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Groundwater Sample Field Data Form

Well Identification MW-37

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	MW-37
Location:	Bloomfield, NM	**Sample Date:**	4/12/2022
Date:	4/12/2022	**Sample Time:**	1451

Equipment

Purging Method/Equipment	bailer / 3vol
Sampling Equipment	bomba
Filtering Equipment	—

Field Parameters

~~Initial Water Temp. (C)~~	
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	2.0	Length of Static Water Column (ft)	3.82
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.61
Depth to Water (ft below TOC)	23.61	Total Purge Volume	2 gal
Total Depth (ft below TOC)	27.43	Number of Purge Volumes	>3

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
initial	12.86	7.09	3.95	144	13.32	63.4	1445	
1	12.78	7.21	4.05	108	7.43	393	1448	
2	13.39	7.27	4.10	19	6.55	>999	1451	

Total Volumes Removed (gallons): 2 **Time:** 1451 **Purged Dry (Y/N):** N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Clear then cloudy brown
no Hcodor
no sheen

4-12-2022

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Groundwater Sample Field Data Form

Well Identification MW-38

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	MW-38
Location:	Bloomfield, NM	**Sample Date:**	4/12/2022
Date:	4/12/2022	**Sample Time:**	1431

Equipment

Purging Method/Equipment	bailer / 3 vol
Sampling Equipment	horiba
Filtering Equipment	—

Field Parameters

Initial Water Temp. (C)	
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	2.0	Length of Static Water Column (ft)	0.05
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.008
Depth to Water (ft below TOC)	27.12	Total Purge Volume	—
Total Depth (ft below TOC)	27.17	Number of Purge Volumes	—

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
Went dry after 1 Bail unable TO Sample								

Total Volumes Removed (gallons): — **Time:** 1431 **Purged Dry (Y/N):** Y

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Went dry to unable to sample went dry

Katie Humphrey 4-12-2022

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Groundwater Sample Field Data Form

Well Identification MW-52

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	MW-52
Location:	Bloomfield, NM	**Sample Date:**	4/13/22
Date:	4/13/2022	**Sample Time:**	1035

Equipment

		Field Parameters	
Purging Method/Equipment	bailer / 3 vol	Initial Water Temp. (C)	
Sampling Equipment	horiba	Initial pH:	
Filtering Equipment	—	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	4.38
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	2.84
Depth to Water (ft below TOC)	37.40	Total Purge Volume	5
Total Depth (ft below TOC)	41.78	Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	13.49	7.48	4.96	64	11.31	0.0	1020	Initial
1	13.16	7.25	5.07	64	9.67	0.0	1023	
2	13.81	6.91	5.02	70	7.3	0.0	1026	
3	13.856	6.82	5.03	91	6.54	0.0	1029	
4	13.90	6.80	4.99	96	6.23	0.0	1032	
5	13.91	6.78	5.00	99	5.98	0.0	1035	

Total Volumes Removed (gallons): 5 **Time:** 1035 **Purged Dry (Y/N):** N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Collected FB
No sheen
no odor
clear

4-13-2022

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Groundwater Sample Field Data Form

Well Identification: CW 0+60

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	CW 0+60
Location:	Bloomfield, NM	**Sample Date:**	4/13/22
Date:	4/13/2022	**Sample Time:**	0925

Equipment

Purging Method/Equipment	Bailer/3vol
Sampling Equipment	Horiba
Filtering Equipment	

Field Parameters

Initial Water Temp. (C)	
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	4.0	Length of Static Water Column (ft)	5.56
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	3.614
Depth to Water (ft below TOC)	8.59	Total Purge Volume	5
Total Depth (ft below TOC)	14.15	Number of Purge Volumes	>1

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	12.63	6.18	1.91	-20	5.77	35.2	0910	
1	12.80	6.41	1.89	-95	13.30	99.7	0913	
2	11.78	6.43	1.90	-101	11.25	11.8	0916	
3	11.35	6.38	1.92	-100	9.73	14.0	0919	
4	11.45	6.38	1.93	-99	8.31	15.3	0922	
5	11.40	6.39	1.94	-100	8.45	14.6	0925	

Total Volumes Removed (gallons): 5 **Time:** 0925 **Purged Dry (Y/N):** N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Orange Particulates
Petroleum odor
no sheen

Katie Humphrey 4-13-2022

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Groundwater Sample Field Data Form

Well Identification CW 25+95

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	CW 25+95
Location:	Bloomfield, NM	**Sample Date:**	4/13/22
Date:	4/13/2022	**Sample Time:**	1255

Equipment

Purging Method/Equipment	bailer / 3 vol
Sampling Equipment	horiba
Filtering Equipment	

Field Parameters

Initial Water Temp. (C)	
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	3.64
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	2.36
Depth to Water (ft below TOC)	8.51	Total Purge Volume	3 5
Total Depth (ft below TOC)	12.15	Number of Purge Volumes	= 2.11

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	12.77	7.48	2.62	-3	3.00	8.2	1240	
1	12.48	7.28	2.72	-56	3.02	0.0	1243	
2	12.17	7.22	2.73	-69	1.93	0.9	1246	
3	12.11	7.19	2.75	-81	1.25	0.2	1249	
4	12.20	7.20	2.77	-84	1.19	0.0	1252	
5	12.14	7.21	2.76	-80	1.11	0.0	1255	

Total Volumes Removed (gallons): 5 **Time:** 1255 **Purged Dry (Y/N):** N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Clear
Petroleum odor
no sheen

Katie Humphrey 4-13-2022

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Groundwater Sample Field Data Form

Well Identification: DW 16+60

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	DW 16+60
Location:	Bloomfield, NM	**Sample Date:**	4/13/2022
Date:	4/13/22	**Sample Time:**	1600

Equipment

Purging Method/Equipment	Peristaltic
Sampling Equipment	horiba
Filtering Equipment	—

Field Parameters

Initial Water Temp. (C)	
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	2	Length of Static Water Column (ft)	1.95
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.312
Depth to Water (ft below TOC)	15.31	Total Purge Volume	—
Total Depth (ft below TOC)	13.36	Number of Purge Volumes	—

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	14.52	7.70	4.57	-76	9.82	2.4	1600	initial
Not enough water for true purge								

Total Volumes Removed (gallons): — **Time:** 1600 **Purged Dry (Y/N):** Y

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

only enough water for 1 set of parameters
yellow/gray water, no sheen
HC odor

Katie Humphrey 4-13-2022

AECOM
6501 Americas Pkwy
Albuquerque, NM 87110
Tel: 505.855.7500
Fax: 505.855.7555

Groundwater Sample Field Data Form

Well Identification OW 221O

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	OW 221O
Location:	Bloomfield, NM	**Sample Date:**	4/13/22
Date:	4/13/2022	**Sample Time:**	1316

Equipment

Purging Method/Equipment	bailer / 3 vol
Sampling Equipment	horiba
Filtering Equipment	—

Field Parameters

Initial Water Temp. (C)	
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	2	Length of Static Water Column (ft)	3.98
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.64
Depth to Water (ft below TOC)	10.24	Total Purge Volume	2
Total Depth (ft below TOC)	14.22	Number of Purge Volumes	>3

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
-	12.47	8.00	1.30	-30	8.47	30.7	1310	initial
1	12.56	7.82	1.05	-16	7.28	45.9	1313	
2	12.25	7.73	1.18	-7	6.53	65.0	1316	

Total Volumes Removed (gallons): 2 **Time:** ~~1316~~ 1316 **Purged Dry (Y/N):** N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Clear FD
no odor
no sheen

4-13-2022

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6501 Americas Pkwy
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Groundwater Sample Field Data Form

Well Identification OW 25+70

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	OW 25+70
Location:	Bloomfield, NM	**Sample Date:**	4/13/22
Date:	4/13/22	**Sample Time:**	

Equipment

Purging Method/Equipment	bailer/3 vol
Sampling Equipment	horiba
Filtering Equipment	—

Field Parameters

Initial Water Temp (C)	
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	2	Length of Static Water Column (ft)	2.60
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.416
Depth to Water (ft below TOC)	11.44	Total Purge Volume	1.25
Total Depth (ft below TOC)	14.04	Number of Purge Volumes	3

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	13.71	7.70	1.65	38	26.70	224	1210	initial
.5	13.51	7.26	1.69	5	15.60	91	1212	
1	13.39	7.20	1.81	-61	11.38	48.7	1214	
1.25	13.20	7.08	1.85	-76	8.68	35.1	1216	

Total Volumes Removed (gallons): 1.25 Time: 1216 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Cloudy brown, then mostly clear
Petroleum odor
no sheen

Katie Humphrey 4-13-2022

AECOM

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Albuquerque, NM 87110
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Fax: 505.855.7555

Groundwater Sample Field Data Form

Well Identification OW 3+85

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	OW 3+85
Location:	Bloomfield, NM	**Sample Date:**	4/13/22
Date:	4/13/2022	**Sample Time:**	

Equipment

Purging Method/Equipment	Peristaltic
Sampling Equipment	bomba
Filtering Equipment	—

Field Parameters

Initial Water Temp. (C)	
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)		Length of Static Water Column (ft)	1.42
Unit Casing Volume (gal/ft)		Casing Water Volume (gal)	
Depth to Water (ft below TOC)	13.80	Total Purge Volume	
Total Depth (ft below TOC)	15.22	Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
			Not sampled					
			Sheen					

Total Volumes Removed (gallons): — **Time:** 1400 **Purged Dry (Y/N):** —

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Sheen
Unable to sample due to sheen on top of water
gray water / black particulates

Katie Hannah 4-13-2022

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Albuquerque, NM 87110
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Groundwater Sample Field Data Form

Well Identification: OW 23+10

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	
Location:	Bloomfield, NM	**Sample Date:**	
Date:	4/13/2022	**Sample Time:**	

Equipment

		Field Parameters	
Purging Method/Equipment	Bailer / 3rd	Initial Water Temp. (C)	
Sampling Equipment	horiba	Initial pH:	
Filtering Equipment		Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	2	Length of Static Water Column (ft)	1.35
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.216
Depth to Water (ft below TOC)	16.85	Total Purge Volume	-
Total Depth (ft below TOC)	18.20	Number of Purge Volumes	-

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
			Dry, unable to sample					

Total Volumes Removed (gallons): - **Time:** 1530 **Purged Dry (Y/N):** Y

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Insufficient water to ~~pu~~ sample
went dry after one purge.
had roots in well

Katie Humphrey 4-13-2022

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Groundwater Sample Field Data Form

Well Identification: Downstream

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	Downstream
Location:	Bloomfield, NM	**Sample Date:**	4/13/22
Date:	4/13/2022	**Sample Time:**	0915

Equipment

Purging Method/Equipment	Bailer
Sampling Equipment	horiba
Filtering Equipment	0.45 µm

Field Parameters

Initial Water Temp. (C)	
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)		~~Length of Static Water Column (ft)~~	
Unit Casing Volume (gal/ft)		~~Casing Water Volume (gal)~~	
Depth to Water (ft below TOC)		~~Total Purge Volume~~	
Total Depth (ft below TOC)		Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	9.06	6.10	0.501	200	23.86	41.9	0915	

Total Volumes Removed (gallons): Sample **Time:** 0915 **Purged Dry (Y/N):** N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

River grab sample collected from east side of bridge on south side of Bloomfield, off of Huntington Rd

Katie Hennig 4-14-2022

AECOM
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Albuquerque, NM 87110
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Groundwater Sample Field Data Form

Well Identification: North of 46

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	North of 46
Location:	Bloomfield, NM	**Sample Date:**	4/14/2022
Date:	4/14/2022	**Sample Time:**	1000

Equipment

Purging Method/Equipment	Bailer
Sampling Equipment	Horiba
Filtering Equipment	0.45 µm

Field Parameters

Initial Water Temp. (C)	
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)		Length of Static Water Column (ft)	
Unit Casing Volume (gal/ft)		Casing Water Volume (gal)	
Depth to Water (ft below TOC)		Total Purge Volume	
Total Depth (ft below TOC)		Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	8.30	6.46	0.314	151	20.01	27	1000	

Total Volumes Removed (gallons): Sample **Time:** 1000 **Purged Dry (Y/N):** N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

river sample at boat ramp at south end of 1st St

4-14-2022

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Groundwater Sample Field Data Form

Well Identification: Upstream

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	upstream
Location:	Bloomfield, NM	**Sample Date:**	4/13/22
Date:	4/14/22	**Sample Time:**	1050

Equipment

Purging Method/Equipment	bailer
Sampling Equipment	horiba
Filtering Equipment	0.45 µm

Field Parameters

Initial Water Temp. (C)	
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)		Length of Static Water Column (ft)	
Unit Casing Volume (gal/ft)		Casing Water Volume (gal)	
Depth to Water (ft below TOC)		Total Purge Volume	
Total Depth (ft below TOC)		Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	8.51	6.62	0.286	132	23.54	24.4	1042	

Total Volumes Removed (gallons): Sample **Time:** 1050 **Purged Dry (Y/N):** N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

river sample east of terminal
park coord. → 36.7000473, -107.9665669
middle coord. → 36.702224, -107.966521
sample coord. → 36.7029760, -107.9667560

Katie Humphrey 4-14-2022

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6501 Americas Pkwy
Albuquerque, NM 87110
Tel: 505.855.7500
Fax: 505.855.7555

Groundwater Sample Field Data Form

Well Identification: North of 45

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	
Location:	Bloomfield, NM	**Sample Date:**	4/14/2022
Date:	4/14/2022	**Sample Time:**	1145

Equipment

Purging Method/Equipment	bailer
Sampling Equipment	horiba
Filtering Equipment	

Field Parameters

Initial Water Temp. (C)	
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)		Length of Static Water Column (ft)	
Unit Casing Volume (gal/ft)		Casing Water Volume (gal)	
Depth to Water (ft below TOC)		Total Purge Volume	
Total Depth (ft below TOC)		Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
-	9.43	7.08	0.283	118	17.01	25.7	1140	.

Total Volumes Removed (gallons): Sample **Time:** 1145 **Purged Dry (Y/N):** N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

river grab sample collected from west of MW-49

4-14-2022

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6501 Americas Pkwy
Albuquerque, NM 87110
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Groundwater Sample Field Data Form

Well Identification East Outfall #2

Page 1 of 1

Project Name:	Bloomfield Semiannual	**Sampled By:**	K.Humphrey/R. Hannah
Project Number:	60677281	**Sample ID:**	East Outfall #2
Location:	Bloomfield, NM	**Sample Date:**	4-14-22
Date:	4/19/21	**Sample Time:**	—

Equipment

Purging Method/Equipment	~~Bailer~~ Perastaltic
Sampling Equipment	horiba
Filtering Equipment	

Field Parameters

Initial Water Temp. (C)	
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)		Length of Static Water Column (ft)	
Unit Casing Volume (gal/ft)		Casing Water Volume (gal)	
Depth to Water (ft below TOC)		Total Purge Volume	
Total Depth (ft below TOC)		Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
		Dry						

Total Volumes Removed (gallons): _____ **Time:** 1120 **Purged Dry (Y/N):** _____

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Stagnant Water / Dry
Unable to access any further
Water was foamy

Katie Humphrey 4-14-2022

Released to Imaging: 11/21/2023 10:35:22 AM

Chain-of-Custody Record

Client: AECOM

Mailing Address: 6501 Americas Pkwy NE, #900, Albuquerque, NM 87110

Phone #: 505-855-7600

email or Fax#: ~~dale.fe~~ edward.hubbert@aecom.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ **Rush**_____

Project Name: Bloomfield Full Terminal

Project #: Eddie Hubbert 142937

Project Manager:

Sampler: Katie Humphreys

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp(including CF): (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	TDS	8015 DRO only				
4/12/22	1345	GW	MW-12	7	HCl			X						X			X					
4/12/22	1451	GW	MW-35	7	HCl			X						X			X					
4/13/22	1520	GW	MW-33	7	HCl			X						X			X					
4/13/22	0925	GW	CW0760	6	HCl									X			X	X				
4/13/22	1006	GW	MW-13	4	HCl									X			X					
4/13/22	1035	GW	MW-52	4	HCl									X			X					
4/13/22	1035	GW	MW-52-FB	3	HCl									X								
4/13/22	1130	GW	MW-1	7	HCl			X						X			X					
4/13/22	1216	GW	CW25170	7	HCl			X						X			X					
4/13/22	1255	GW	CW25195	6	HCl									X			X	X				
4/13/22	1316	GW	CW22100	7	HCl			X						X			X					
4/13/22	1316	GW	CW22100-FD	7	HCl			X						X			X					

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/13/22	1533				4/13/22	1533
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: MS/MSD extra volume MW-13

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Received by OCD: 5/15/2023 3:52:10 PM

Released to Imaging: 11/21/2023 10:35:22 AM

Received by OCD: 5/15/2023 3:52:10 PM

Chain-of-Custody Record

Client: AECOM

Mailing Address: 1601 Americas Pkwy NE #900, Albuquerque, NM, 87110

Phone #: 505-855-7500

email or Fax#: edward.hubbert@aecom.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Bloomfield Full Terminal

Project #: 142937

Project Manager: Edde Hubbert

Sampler: K.H.

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp(including CF): (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)						
4/13/22		TB	Trip Blank	2	HCL									X								

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/13/22	1533				4/13/22	1533
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Trip blank in cooler with TDS + VOA

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 11/21/2023 10:35:22 AM

Received by OCD: 5/15/2023 3:52:10 PM

# of Custody Record

Turn-Around Time:

☐ Standard ☐ Rush

Project Name: Blanco Mesa Terminal

Project #: 142937

Project Manager: Eddie Hubbert

Sampler:

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp (including CF): (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	TDS	Total Metals	Dissolved Metals	Alkalinity	Anions
GW	Downstream	11	HCl, HNO3, H2SO4			X						X			X	X	X	X	X
GW	North of 46	11	HCl, HNO3, H2SO4			X						X			X	X	X	X	X
GW	North of 45	11	HCl, HNO3, H2SO4			X						X			X	X	X	X	X
GW	Upstream	11	HCl, HNO3, H2SO4			X						X			X	X	X	X	X
~~GW~~	TB TRIP BLANK	2	HCl									X							1
GW	GW No+60	7	HCl			X						X			X				1

Relinquished by:

Received by: Via: Date Time

4/5/23 1755

Relinquished by:

Received by: Via: Date Time

Remarks:

Samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Page 2 of 2 SM annual Sampling

Pre-Field notes: Recovery well pumps were pulled by WSP on 4.6.22.

T. Grulkowski received communication from new terminal manager Marc Brunet (385)-233-8258 on Friday 4.8.22. M. Brunet expressed that he ~~would like~~ needs to be notified of AECom activities at Bloomfield terminal at least 2-3 weeks in advance.

On 4.11.22 upon arrival at site M. Brunet informed field staff that we are not to use Marathon equipment (H_2S meters). Will overnight H_2S meter today and will resume renting meters for future events.

4-11-22 Bloomfield Sun: annual Sampling

* Marc Brunet 385-233-8528

0800 T. Gnilke, R. Hannah, and K. Humphrey arrive on site, receive permit from operator, unload and organize equipment.

Weather High 72°F, mostly clearly, wind 25-40 mph

Personnel Tanner Gnilke (AECOM) Katie Humphrey (AECOM) Rowan Hannah (AECOM)

Equipment Solinist interface meter

0830 T. Gnilke is informed that field staff are not to use Marathon equipment (H_2S meter). Will overnight H_2S meter from Premier Safety.

0850 Conduct safety tailgate, fill out THA forms - see forms for details.

0915 Depart to begin gauging. See gauge forms for times and details.

1645 Gauging completed, turn in permit, return to unload equipment.

1700 Depart office, end of field day.

4-11-22

Field Semiannual Sampling

0800 K. Humphrey and R. Hannah waiting for H_2S meter to arrive.

1030 H_2S meter delivered, depart to site.

1100 Arrive on site, pick up permit, organize sample coolers and equipment for field day.

Weather High 49°F, Snow/rain, wind gusts 20 mph

Personnel Katie Humphrey (AECOM) Rowan Hannah (AECOM)

Equipment Solinst interface meter
Bailers
Horiba U-52 #00047716

1105 Conduct safety tailgate

1115 Operator Henry Lantz stops by and notifies AECOM that we are in violation due to not having a 4-Gas meter to document atmospheric monitoring. H_2S meter is not sufficient.

1200 Meet Henry Lantz at office, correct permit, receive loaner 4-Gas meter for the day.

1230 Call premier safety to order 4-Gas meter with calibration gas to be overnighted.

1300 Calibrate Horiba

	Temp	pH	ORP	cond	turb	DO
pre	21.30	5.90	243	9.59	0.3	14.23
post	21.32	4.00	266	4.57	0.1	9.25

1345 Sample MW-12, See purge log for details

1451 Sample MW-34. See purge log for details.

1520 Sample MW-33. See purge log for details.

1600 Unload equipment, dump purge water, turn in permit.

1630 Depart office. End of field day.

11-12-20

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4-13-22 Groundwater Semiannual Sampling

0800 K. Humphrey and R. Hannah arrive on site, receive permit from operator.

0830 Conduct safety tailgate

Weather High 50°F, partly cloudy, max wind 16 mph

Personnel Katie Humphrey (AECOM) Rowan Hannah (AECOM)

Equipment Solinst interface meter
4-Gas Meter
Bailers
Horiba U-52 #00049716
Peristaltic #00092660

0840 Calibrate Horiba

	Temp	pH	ORP	cond	turb	DO
pre	18.19	4.62	205	4.63	0.0	6.70
post	18.22	4.00	266	4.50	0.0	9.62

0925 Sample ~~FB~~ DUP0+60, see purge log for details.

1006 Sample MW-13. See purge log for details.

~~1025~~ MS/MSD collected

1035 Sample MW-52. collect FB. See purge log for details.

1130 Sample MW-1. See purge log for details.

1216 Sample OW 25+70. See purge log for details.

1255 Sample OW 25+95. See purge log for details.

1316 Sample OW-22+00. Collect FD. See purge for details.

1400 Attempt to sample OW 3+85. sheen in water can't sample

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4-13-22 Bloomfield Semiannual Sampling

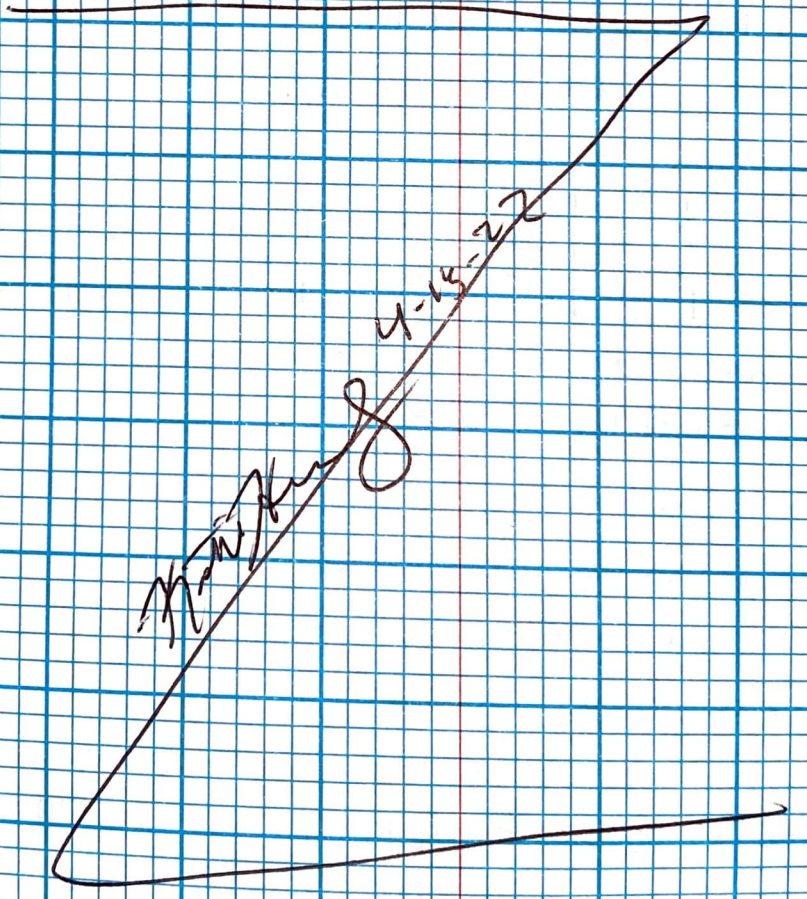
1430 Return to office to pack sample coolers.

1530 Christine from Hall Env. picks up sample coolers

1600 Sample ow 16+60. See page 19 for details.

1630 Unload equipment, dump purge water, turn in permit,

1700 Depart office, end of field day.



Received by OCD: 5/15/2023 3:52:10 PM

4-14-22 Bloomfield Semiannual Sampling

0800 K. Humphrey and P. Hannah arrive on site, receive permit from operator.

0830 Conduct safety tailgate

Weather High 64°F, mostly sunny, East wind 8 mph

Personnel Katie Humphrey (AECOM) Paxton Hannah (AECOM)

Equipment Solinist interface meter
4-Gas meter
Bailers
Horiba #0004716
Penstaltic #00092660

0845 Calibrate Horiba

	Temp	pH	ORP	cond	turb	DO
pre	18.59	4.50	258	4.46	6.6	12.61
post	18.62	4.00	259	4.49	0.0	9.69

0915 Sample downstream (river sample), see purge log for details.

1000 Sample North of 46 (river sample), see purge log for details.

~~1040~~ 1050 Sample upstream (river sample), see purge log for details.

1145 Sample North of 45 (river sample), see purge log for details.

~~1250~~ 1255 Christine from Hall Env. picks up sample cooler.

1300 Load equipment into vehicles, turn in permit.

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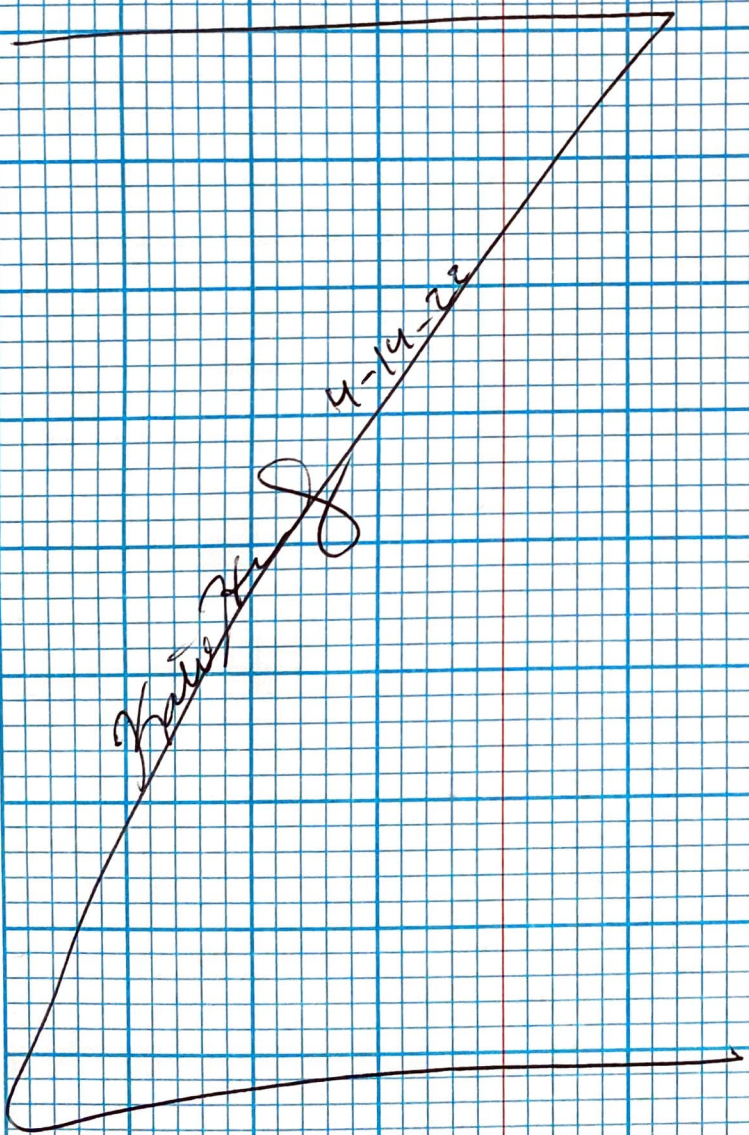
11-02 Blanket Semiannual Sampling

1330 Depart for Albuquerque

1600 Arrive in Albuquerque, ship equipment at UPS, drop off rental car.

1800 End of field day



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Monitor Well Gauging Form

AECOM
6501 Americas Pkwy
Albuquerque, NM 87110
Tel: 505.855.7500
Fax: 505.855.7555

Site: Bloomfield Terminal
Date: 2022 Annual Gauge
Event - August 2022

Monitor Well	Depth to Product	Depth to Water	Total Depth	Date/Time	Notes
Refinery Complex - Background Wells					
MW-3*	-	Dry @ ~40'	36.50	8/1 @ 1113	Dry
MW-5*	-	Dry	31.20	Dry	
MW-6*	-	Dry	47.55	Dry	
Refinery Complex - Refinery Wells					
MW-4	-	27.76	29.81	8/1 @ 1017	
MW-7	-	28.23	62.14	8/1 @ 108	
MW-8	-	32.86	34.80	8/1 @ 1101	
MW-20*	spotty	20.99	27.40	8/1 @ 1214	spotty product
MW-21	-	22.05	30.52	8/1 @ 1039	
MW-25	-	33.55	41.25	8/1 @ 1533	
MW-29	-	23.70	28.68	8/1 @ 1047	
MW-30*	-	35.00	40.22	8/1 @ ~~1011~~ 1116	
MW-31	-	34.91	39.23	8/2 @ 0955	
MW-36	-	20.45	22.93	8/1 @ 1458	
MW-39	-	25.60	38.23	8/1 @ 1225	
MW-40	28.49	28.52	29.75	8/1 @ 0949	Vault lid broken (0.03 product) 0.14' product
MW-41	26.86	27.00	31.30	8/1 @ 0956	
MW-44	-	34.90	51.00	8/1 @ 1121	
MW-45	-	12.10	16.78	8/1 @ 1350	
MW-46	-	10.20 Dry	10.51	8/1 @ 1358	Dry
MW-47	-	12.75	14.17	8/1 @ 1406	
MW-52	-	37.20	41.78	8/1 @ 1058	
P-02/RW-4	27.11	27.69	38.1	8/1 @ 1022	
P-03	-	10.56	22.81	8/2 @ 0924	
BCK-1	-	77.44	80.65	8/2 @ 0938	
BCK-2	-	26.93	46.98	8/2 @ 0944	
RW-01	-	31.25	40.85	8/1 @ 0900	
RW-02	26.83	~~26.84~~ 27.50	35.2	8/1 @ 1020	
RW-03	-	21.98	33.8	8/1 @ 1438	
RW-09*	-	24.88	33.9	8/1 @ 1157	
RW-14	35.96	36.00	41.85	8/1 @ 1124	
RW-15	35.68	35.75	42.1	8/1 @ 1127	
RW-16	34.71	34.82	43.15	8/1 @ 1129	
RW-17	-	33.60	39.95	8/1 @ 1132	
RW-18*	Inaccessible		37.85	8/1	
RW-19	spotty	29.85	35.2	8/1 1/22 @ 1027	spotty product
RW-22	25.84	25.94	35.4	8/1 1/22 @ 1154	
RW-23*	-	23.76	35.6	8/1 @ 1226	
RW-28*	29.45	30.27	37.1	8/1 @ 1145	
RW-42*	-	-	32.15	8/1 @ 1035	skimmer in well, cannot gauge
RW-43*	20.80	21.35	24.25	8/1 @ 1227	
Refinery Complex - Cross-Gradient Wells					
MW-1	-	17.85	21.4	8/1 @ 1051	well open on arrival
MW-13	-	41.28	52.92	8/2 @ 0927	
MW-26*	-	21.03	25.18	8/1 @ 1530	
MW-27	-	21.75	24.51	8/1 @ 1526	rocks
MW-32	-	25.54	27.6	8/1 @ 1522	
MW-33	-	24.70	25.56	8/1 @ 1517	
Refinery Complex - Downgradient Wells					
MW-11*			21.99		
MW-12	-	9.60	13.49	8/1 @ 1453	
MW-34	-	14.39	15.2	8/1 @ 1510	Dry? rocks? attempt to sample
MW-35	-	22.40	26	8/1 @ 1507	Dry? rocks? attempt to sample
MW-37	-	23.48	27.43	8/1 @ 1504	
MW-38	-	23.32	26.92	8/1 @ 1500	
Refinery Complex - RCRA Investigation Wells					
MW-50	-	17.55	22.05	8/1 @ 1049	
MW-51	-	14.72	22.03	8/1 @ 1047	
MW-53	-	39.82	43.6	8/1 @ 1111	
MW-54*	-	32.91	41.22	8/1 @ 1610	
MW-55*	21.90	21.96	26	8/1 @ 1216	
MW-56	18.43	18.63	23.62	8/1 @ 1213	
MW-57*	~~19.78~~	20.50	24	8/1	
MW-58*	~~18.93~~ spotty	~~18.63~~ 21.21	27.35	8/1 @ 1220	spotty product
MW-59	-	44.52	46.94		
MW-60*	-	42.89	43.47	8/2 @ 0931	
MW-61*	Well can	not be accessed	41.06		check TD
MW-62		56.76	61.38	8/4 @ 0920	
MW-63	-	45.61	47.89	8/2 @ 1000	
MW-64	-	50.68	52.41	8/2 @ 1002	
MW-65*	Destroyed		44.3	8/2	possibly destroyed
MW-66*	42.41	43.60	45.58	8/2 @ 1028	
MW-67	-	21.80	26.12	8/1 @ 1109	
MW-68	-	17.18	21.14	8/1 @ 1044	
MW-69*	-	12.00 Dry	12.06	8/1 @ 1433	Dry
MW-70	-	26.65	28.75	8/1 @ 1104	
MW-71*	30.33	30.42	38.09	8/1 @ 1148	
MW-72*	28.98	29.05	34.9	8/1 @ 1205	
MW-73	-	29.97	36.83	8/1 @ 1200	
MW-74	-	29.31	33.95	8/1 @ 1204	
MW-75*	spotty	28.91	32.38	8/1 @ 1037	spotty product
MW-76	-	29.12	34.14	8/1 @ 0958	
MW-77*	29.05	29.69	34.4	8/1 @ 1143	
MW-78	-	32.88	38.11	8/1 @ 1054	

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Monitor Well	Depth to Product	Depth to Water	Total Depth	Date/Time	Notes
North Boundary Barrier - Collection Wells					
CW 0+60	-	8.45	14.15	8/1 @ 1442	
CW 1+50	-	7.05	13.42	8/1@ 1445	
CW 3+85	-	5.88	13.3	8/1@1407	
CW 5+50	-	6.44	12.31	8/1@1406	
CW 6+70	-	7.01	6.97	8/1@1400	
CW 8+10	-	7.90	11.42	8/1@1355	
CW 8+45	8.31	8.32	12.67	8/1@ 1359	
CW 11+15	6.14	6.16	12.34	8/1@ 1353	
CW 14+10	-	6.50	12.99	8/1@1344	
CW 16+60	-	6.26	12.97	8/1@1337	
CW 19+50	-	6.30	10.04	8/1@1330	
CW 22+00	-	9.05	12.4	8/1@1420	
CW 23+10	-	10.65	14.72	8/1@1423	
CW 23+90	-	8.01	11.81	8/1@ 1426	
CW 25+95	-	8.40	12.35	8/1 @1430	
North Boundary Barrier - Observation Wells					
OW 0+60*	-	11.22	12.34	8/1 @ 1442	
OW 1+50*	-	13.35	14.42	8/1 @ 1444	
OW 3+85*	-	13.34	15.22	8/1@ 1408	
OW 5+50*	-	13.58 Dry	13.85	8/1@1405	Dry
OW 6+70*	-	16.50 Dry	16.55	8/1@1401	Dry
OW 8+10*	-	13.70 Dry	16.1	8/1@1366	TD @ 13.75 , Dry
OW 11+15*	-	12.71	16.75	1352 8/1	
OW 14+10*	-	13.10 Dry	13.07	1343 8/1	Dry
OW 16+60*	-	13.17	15.31	1335 8/1	
OW 19+50*	-	Dry @ 13.10	13.09	1332 8/1	Dry
OW 22+00*	-	12.03	14.22	8/1@ 1421	
OW 23+10*	-	16.68	18.41	8/1@1425	
OW 23+90*	-	17.60 Dry	18.12	8/1@ 1427	Dry
OW 25+70	-	11.25	14.04	8/1@1429	
Sump Wells					
SW1-0206	-	52.38	53.15	8/1@1404	
SW2-0206	-	25.55	27.78	8/1@1403	
SW3-0206	-	27.15	52.64	8/1@1402	
SW4-0206	-	33.82	42.4	8/1@1359	
SW5-0206	-	34.24	52.33	8/1@1357	
SW6-0206	-	41.71	47.48	8/1@1416	
SW7-0206	-	21.41	32.12	8/1@1340	
River Terrace					
MW-48	-	7.40	16.78	8/1@1249	No I.D on arrival
MW-49	-	9.55	9.65	8/1@1304	Dry
DW-1	-	5.92	15.64	8/1@1250	
DW-2	-	-	15.32	-	Could not locate
DW-3	-	4.40	12.7	8/1@1247	
Collection	-	6.36	15.15	8/1@1240	
TP-3	-	7.05	12.43	8/1@1300	
TP-5	Destroyed		8.88		
TP-6	-	5.55	9.98	8/1@1246	
TP-7	-	5.71	9.78	8/1@1304	
TP-8	-	5.59	9.99	8/1@1248	
TP-9	-	5.20	11	8/1@1300	
TP-10	-	5.02	9.98	8/1@1312	
TP-11	-	5.48	9.99	8/1@1316	
TP-12	-	7.21	11.61	8/1@1320	
TP-13	-	6.06	12.9	8/1@1318	
Miscellaneous					
MP-1	26.33	27.27	29.84		
MP-2	27.19	27.32	29.75	8/1@1032	
AS-1	-	26.35	29.41	8/1@1025	
VEW-1S	-	12.85 (Dry) TD	12.82	8/1@1027	Dry
VEW-1D	-	26.00 (Dry) TD	25.82	8/1@1029	Dry
MP-3	28.51	29.15	30.68	8/1@1003	
MP-4	28.38	29.77	32.98	8/1@1002	
MP-5	27.98	29.10	31.67	8/1@1001	

Notes:

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AECOM
6501 Americas Pkwy
Albuquerque, NM 87110
Tel: 505.855.7500
Fax: 505.855.7555

Groundwater Sample Field Data Form

Well Identification: RW-01

Page 1 of 1

Project Name:	Bloomfield ~~bfc~~ FT	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	RW-01
Location:	Bloomfield, NM	Sample Date:	8-01-2022
Date:	8-01-2022	Sample Time:	

Equipment

		Field Parameters	
Purging Method/Equipment	QED bladder pump/Horiba	Initial Water Temp. (C)	
Sampling Equipment	bladder pump	Initial pH:	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	9.6
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	6.24 = 23 L
Depth to Water (ft below TOC)	31.25	Total Purge Volume	—
Total Depth (ft below TOC)	40.85	Number of Purge Volumes	—

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	26.52	6.58	3.57	-149	0.00	6.1	1040	initial
	SHEEN DETECTED WHILE PURGING							
		Not Sampled						

Total Volumes Removed (gallons): — Time: — Purged Dry (Y/N): —

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

dark gray water
sheen
HC odor

8-01-2022

AECOM
6501 Americas Pkwy
Albuquerque, NM 87110
Tel: 505 855 7500
Fax: 505 855 7555

Groundwater Sample Field Data Form

Well Identification RW-09

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Project Name:	Bloomfield ~~HC~~ FT	Sampled By:	K.Humphrey/D. Wiglon/S. Frederick/T. Gruike
Project Number:	60677281	Sample ID:	RW-09
Location:	Bloomfield, NM	Sample Date:	8-02-22
Date:	8-02-22	Sample Time:	—

Equipment

Purging Method/Equipment	low flow / bladder pump	**Field Parameters**	
Sampling Equipment	bladder pump / Horiba	Initial Water Temp. (C)	
Filtering Equipment	0.45 um	Initial pH	
		Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	9.02
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	5.86
Depth to Water (ft below TOC)	24.68	Total Purge Volume	—
Total Depth (ft below TOC)	33.9	Number of Purge Volumes	—

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
			NOT SAMPLED — SHEEN					

Total Volumes Removed (gallons): — Time: — Purged Dry (Y/N): —

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

HC odor
yellow water / black particulates
sheen

8-02-22

AECOM
6501 Americas Pkwy
Albuquerque, NM 87110
Tel: 505.855.7500
Fax: 505.855.7555

Groundwater Sample Field Data Form

Well Identification RW-23

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Project Name:	Bloomfield Inc FT	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	RW-23
Location:	Bloomfield, NM	Sample Date:	
Date:	8-02-22	Sample Time:	

Equipment

		Field Parameters	
Purging Method/Equipment	low flow/ bladder pump	Initial Water Temp. (C)	
Sampling Equipment	bladder pump/ Horiba	Initial pH:	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	12.34
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	8.02
Depth to Water (ft below TOC)	23.26	Total Purge Volume	—
Total Depth (ft below TOC)	35.6	Number of Purge Volumes	—

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
			NOT SAMPLED - SHEEN					

Total Volumes Removed (gallons): — Time: — Purged Dry (Y/N): —

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

HC odor
dark gray water/ black particulates
sheen

Katie Humphrey 8-02-22

AECOM

6501 Americas Pkwy
Albuquerque, NM 87110
Tel: 505 856 7500
Fax: 505 856 7556

Groundwater Sample Field Data Form

Well Identification: MW-1

Page: 1 of 1

Project Name:	Bloomfield	Sampled By	K Humphrey, D Watson, S Frederick, T Grider
Project Number:	60677281	Sample ID:	MW-1
Location:	Bloomfield, NM	Sample Date:	8.4.22
Date:	8-4-22	Sample Time:	1242

Equipment

		Field Parameters	
Purging Method Equipment:	Low Flow/Bladder	Initial Water Temp (C):	
Sampling Equipment:	Bladder/Horiba	Initial pH:	
Filtering Equipment:	0.45 um	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in):	4.0	Length of Static Water Column (ft):	3.15
Unit Casing Volume (gal/ft):	0.65	Casing Water Volume (gal):	2.0
Depth to Water (ft below TOC):	17.85	Total Purge Volume:	
Total Depth (ft below TOC):	21.40	Number of Purge Volumes:	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
0	21.12	6.06	-126	0.949	0.0	0.0	1220	
0.75	17.60	5.70	-102	0.820	0.0	0.0	1228	
1.5	17.53	5.53	-87	0.812	0.0	0.0	1235	
2	17.48	5.47	-82	0.808	0.0	0.0	1242	

Total Volumes Removed (gallons): 2 Time: 1242 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.1	0.75
5.0	1.00
6.0	1.75
7.0	2.00
8.0	2.68

Additional Remarks

Clear/Colorless

No Odor/Sheen

8.4.22

AECOM
6501 Americas Pkwy
Albuquerque, NM 87110
Tel: 505 855 7500
Fax: 505 855 7555

Groundwater Sample Field Data Form

Well Identification: MW-4

Page 1 of 1

Project Name:	Bloomfield ~~WB~~ ET	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	MW-4
Location:	Bloomfield, NM	Sample Date:	8-03-22
Date:	8-03-22	Sample Time:	1305

Equipment

		Field Parameters	
Purging Method/Equipment	low flow / bladder pump	Initial Water Temp. (C)	
Sampling Equipment	bladder pump / Horiba	Initial pH:	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	5	Length of Static Water Column (ft)	2.05
Unit Casing Volume (gal/ft)	1.00	Casing Water Volume (gal)	7.76 L
Depth to Water (ft below TOC)	27.36	Total Purge Volume	
Total Depth (ft below TOC)	29.81	Number of Purge Volumes	

Volume Purged ~~(gal)~~ L	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
-	28.81	6.51	2.88	-176	0.00	0.0	1250	initial
0.5	26.77	6.50	2.95	-183	0.00	0.0	1255	
1.0	26.37	6.49	2.96	-185	0.00	0.0	1300	
1.5	26.01	6.50	2.97	-186	0.00	0.0	1305	

Total Volumes Removed (gallons): 1.5 L Time: 1305 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

gray water with black particulates
HC odor
no sheen

8-03-22

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Groundwater Sample Field Data Form

Well Identification: MW-12

Page 1 of 1

Project Name:	Bloomfield UIC	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	MW-12
Location:	Bloomfield, NM	Sample Date:	8-4-22
Date:	8-4-22	Sample Time:	1110

Equipment

		Field Parameters	
Purging Method/Equipment	low flow / peristaltic	Initial Water Temp. (C)	
Sampling Equipment	peristaltic / Horiba	Initial pH:	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	3.89
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	2.53
Depth to Water (ft below TOC)	9.60	Total Purge Volume	2
Total Depth (ft below TOC)	13.49	Number of Purge Volumes	2

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	16.25	6.28	0.464	70	0.00	0.0	1050	
0.5	17.97	6.24	0.405	35	0.00	0.0	1055	
1	17.93	6.21	0.397	-11	0.00	0.0	1100	
1.5	17.95	6.18	0.396	-11	0.00	0.0	1105	
2	17.96	6.18	0.394	-12	0.00	0.0	1110	

Total Volumes Removed (gallons): 2 Time: 1110 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

clear
no HC odor
no sheen

8-4-2022

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Groundwater Sample Field Data Form

Well Identification: MW-13

Page 1 of 1

Project Name:	Bloomfield FT	Sampled By	K Humphrey, D Wigton, S Frederick, T Guba
Project Number:	60677281	Sample ID:	MW-13
Location	Bloomfield, NM	Sample Date:	8-5-22
Date:	8-5-22	Sample Time:	

Equipment

		Field Parameters	
Purging Method Equipment	bladder pump / low flow	Initial Water Temp (C)	
Sampling Equipment	bladder pump / Horiba	Initial pH	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	11.64
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	7.6 = 28.7 L
Depth to Water (ft below TOC)	41.28	Total Purge Volume	7.5 L
Total Depth (ft below TOC)	52.92	Number of Purge Volumes	≈1

Volume Purged (gal) (L)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	20.85	6.23	3.09	-55	0.00	0.0	0900	
2.5	19.34	6.23	3.10	-56	0.00	0.0	0905	
5.0	19.46	6.24	3.10	-57	0.00	0.0	0910	
7.5	19.25	6.23	3.11	-57	0.00	0.0	0915	

Total Volumes Removed (gallons): 7.5 L Time: 0915 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

clear
no HC odor
no sheen

Katie Humphrey 8-5-2022

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Groundwater Sample Field Data Form

Well Identification: MW-21

Page 1 of 1

Project Name:	Bloomfield IC	Sampled By:	K Humphrey D Watson S Frederick T Grider
Project Number:	60677281	Sample ID:	MW-21
Location	Bloomfield, NM	Sample Date:	8-4-22
Date:	8-4-22	Sample Time:	

Equipment

		Field Parameters	
Purging Method Equipment	Bladder Pump/Low Flow	Initial Water Temp (C)	
Sampling Equipment	Bladder Pump/Low Flow	Initial pH	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	4.0	Length of Static Water Column (ft)	8.47
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	5.5
Depth to Water (ft below TOC)	22.05	Total Purge Volume	
Total Depth (ft below TOC)	30.52	Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
			SHEEN					
			NOT SAMPLED					
0	20.65	5.72	3.84	-255	0.43	0.0	1150	

Total Volumes Removed (gallons): — Time: — Purged Dry (Y/N): —

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
1.9	0.15
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.6	1.09
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Well Produced Sheen after Purging for ~2 mins. Collect Parameters but no Sample.

8-4-22

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Groundwater Sample Field Data Form

Well Identification: MW-26

Page 1 of 1

Project Name:	Bloomfield FT	Sampled By:	K Humphrey/D Watson/S Fruchtnicht/T Grider
Project Number:	60377281	Sample ID:	MW-26
Location:	Bloomfield, NM	Sample Date:	8-9-22
Date:	8-9-22	Sample Time:	1140

Equipment

		Field Parameters	
Purging Method Equipment	peristaltic/lowflow	Initial Water Temp. (C)	
Sampling Equipment	peristaltic/Horiba	Initial pH	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	4.15
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	2.70
Depth to Water (ft below TOC)	21.03	Total Purge Volume	1.5
Total Depth (ft below TOC)	25.18	Number of Purge Volumes	1

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	19.86	6.36	3.05	-123	0.00	0.0	—	initial
0.5	19.17	6.32	2.99	-128	0.00	0.0	1130	
1.0	19.08	6.31	2.95	-128	0.00	0.0	1135	
1.5	19.01	6.31	2.94	-130	0.00	0.0	1140	

Total Volumes Removed (gallons): 1.5 Time: ~~1135~~ 1140 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.09
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

clear
no HC odor
no sheen

8-9-22

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Groundwater Sample Field Data Form

Well Identification: MW-27

Page 1 of 1

Project Name:	Bloomfield SE ET	Sampled By:	K Humphrey/D Watson/S Frederick/T Grubb
Project Number:	60577291	Sample ID:	MW-27
Location:	Bloomfield, NM	Sample Date:	8-9-22
Date:	8-9-22	Sample Time:	

Equipment

Purging Method/Equipment	low flow / ~~peristaltic~~ bladder	Field Parameters	
Sampling Equipment	bladder ~~peristaltic~~	Initial Water Temp. (C)	
Filtering Equipment	0.45 µm	Initial pH	
		Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	2.76
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	1.79
Depth to Water (ft below TOC)	21.75	Total Purge Volume	1.5
Total Depth (ft below TOC)	24.51	Number of Purge Volumes	<1

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
–	22.78	6.62	6.60	-42	0.00	0.6	1045	initial
0.5	21.02	6.51	7.07	-46	0.00	0.5	1050	
1.0	20.40	6.50	7.10	-47	0.00	0.0	1055	
1.5	20.21	6.50	7.12	-49	0.00	0.0	1100	

Total Volumes Removed (gallons): 1.5 Time: 1100 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

collect EB
roots in well,
clear
no HC odor
no sheen

8-9-22

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Groundwater Sample Field Data Form

Well Identification: MW-29

Page 1 of 1

Project Name:	Bloomfield ~~Ute~~ FT	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	MW-29
Location:	Bloomfield, NM	Sample Date:	8-2-22
Date:	8-2-22	Sample Time:	1335

Equipment

		Field Parameters	
Purging Method/Equipment	lowflow / bladder pump	Initial Water Temp. (C)	
Sampling Equipment	bladder pump / Horiba	Initial pH	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	4.98
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	3.24 = 12.3 L
Depth to Water (ft below TOC)	23.70	Total Purge Volume	4.5 L
Total Depth (ft below TOC)	28.68	Number of Purge Volumes	<1

Volume Purged ~~(gal)~~ L	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
–	26.87	6.79	3.08	78	0.11	7.8	1320	
1.5	24.97	6.75	3.11	77	0.00	6.1	1325	
3.0	24.44	6.74	3.12	76	0.00	6.4	1330	
4.5	24.53	6.73	3.11	74	0.00	5.9	1335	

Total Volumes Removed ~~(gallons)~~ L: 4.5 L Time: 1335 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

FB and FD collected
clear with black particulates
no sheen

8-2-2022

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Groundwater Sample Field Data Form

Well Identification: MW-30

Page 1 of 1

Project Name:	Bloomfield Dtc ET	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	MW-30
Location:	Bloomfield, NM	Sample Date:	8-02-22
Date:	8-02-22	Sample Time:	-

Equipment

Purging Method/Equipment	low flow / bladder pump	**Field Parameters** Initial Water Temp. (C)	
Sampling Equipment	bladder pump / Horiba	Initial pH.	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	5.22
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	3.39
Depth to Water (ft below TOC)	35.00	Total Purge Volume	-
Total Depth (ft below TOC)	40.22	Number of Purge Volumes	-

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
			NOT SAMPLED - SHEEN					

Total Volumes Removed (gallons): - Time: - Purged Dry (Y/N): -

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

gray water / black particulates
HC odor
sheen

8-02-22

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Groundwater Sample Field Data Form

Well Identification MW-31

Page 1 of 1

Project Name:	Bloomfield ~~Refinery~~	Sampled By:	K Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	MW-31
Location:	Bloomfield, NM	Sample Date:	4.2.22
Date:	4.2.22	Sample Time:	1105

Equipment

		Field Parameters	
Purging Method/Equipment	Low Flow / Bladder Pump	Initial Water Temp. (C)	
Sampling Equipment	~~Bladder Pump~~ / Horiba	Initial pH	
Filtering Equipment	0.45 um	Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	4.0	Length of Static Water Column (ft)	4.32
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	2.8
Depth to Water (ft below TOC)	34.91	Total Purge Volume	~~1.5~~ 3
Total Depth (ft below TOC)	39.23	Number of Purge Volumes	~~1~~ 1

Volume Purged ~~(gal)~~ (L)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
0	21.96	5.41	2.26	-261	1.96	0.0	1040	
~~0.5~~ 1	20.91	5.48	2.24	-178	1.84	0.0	1047	
~~1~~ 2	20.86	5.51	2.22	-180	0.0	0.0	1055	
~~1.5~~ 3	20.85	5.52	2.21	-180	0.0	0.0	1105	

Total Volumes Removed (gallons): 3 Time: 1105 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Clear / Odorless 0.5 L/min

Slight odor / No sheen

4-2-22

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Groundwater Sample Field Data Form

Well Identification: MW-32

Page 1 of 1

Project Name:	Bloomfield ~~NS~~ FT	Sampled By:	K Humphrey/D Walton/S Frederick/T Gates
Project Number:	60677201	Sample ID:	MW-32
Location:	Bloomfield, NM	Sample Date:	8-9-22
Date:	8-9-22	Sample Time:	1255

Equipment

		Field Parameters	
Purging Method/Equipment	low flow/peristaltic	Initial Water Temp. (C)	
Sampling Equipment	peristaltic/Horiba	Initial pH	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	7.06
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	1.34
Depth to Water (ft below TOC)	25.54	Total Purge Volume	~~0.~~ 0.75
Total Depth (ft below TOC)	27.6	Number of Purge Volumes	21

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
–	26.82	7.20	5.06	23	6.12	0.0	1240	initial
0.25	24.95	7.18	5.13	31	6.16	0.0	1245	
0.50	24.56	7.18	5.14	30	6.17	0.0	1250	
0.75	24.40	7.18	5.14	32	6.15	0.0	1255	

Total Volumes Removed (gallons): 0.75 Time: 1255 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.06
6.0	1.55
7.0	2.09
8.0	2.69

Additional Remarks

clear
no HC odor
no sheen

8-9-22

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Groundwater Sample Field Data Form

Well Identification MW-33

Page 1 of 1

Project Name:	Bloomfield ~~Ref~~ FT	Sampled By:	K.Humphrey/D. Wiglon/S. Frederick/T. Gulke
Project Number:	60677261	Sample ID:	
Location:	Bloomfield, NM	Sample Date:	
Date:	8-4-22	Sample Time:	

Equipment

		Field Parameters	
Purging Method/Equipment	low flow / peristaltic	Initial Water Temp. (C)	
Sampling Equipment	peristaltic / Horiba	Initial pH	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	0.86
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	0.56
Depth to Water (ft below TOC)	24.70	Total Purge Volume	
Total Depth (ft below TOC)	25.56	Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
Insufficient water for purge. Grab sample							1130	

Total Volumes Removed (gallons): — Time: 1130 Purged Dry (Y/N): Y

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

clear w/ brown particulate
no HC odor
no sheen
not enough water for 1L DRO

8-4-2022

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Groundwater Sample Field Data Form

Well Identification: MW-34

Page 1 of 1

Project Name:	Bloomfield Line FT	Sampled By:	K Humphrey/D Wight/S Frederick/T Gudac
Project Number:	60677291	Sample ID:	MW-34
Location:	Bloomfield, NM	Sample Date:	
Date:	8-9-22	Sample Time:	0940

Equipment

Purging Method Equipment:	lowflow peristaltic/Horiba	Initial Water Temp (C):	
Sampling Equipment:		Initial pH:	
Filtering Equipment:	0.45 Mm	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in):	4	Length of Static Water Column (ft):	0.81
Unit Casing Volume (gal/ft):	0.65	Casing Water Volume (gal):	0.53
Depth to Water (ft below TOC):	14.39	Total Purge Volume:	0.75
Total Depth (ft below TOC):	15.2	Number of Purge Volumes:	1.4 > 1

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	21.52	6.71	3.06	-156	0.00	0.0	0925	Initial
0.25	18.15	6.62	3.08	-159	0.00	0.0	0930	
0.50	17.99	6.55	3.09	-160	0.00	0.0	0935	
0.75	17.91	6.54	3.09	-161	0.00	0.0	0940	

Total Volumes Removed (gallons): 0.75 Time: 0940 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

collect FD
clear w/ plant particulates
no HC odor
no sheen

8-9-22

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Groundwater Sample Field Data Form

Well Identification: MW-35

Page 1 of 1

Project Name:	Bloomfield ET	Sampled By:	K Humphrey/D Walton/S Frederick/T Grider
Project Number:	60677231	Sample ID:	MW-35
Location	Bloomfield, NM	Sample Date:	8-9-22
Date:	8-9-22	Sample Time:	0850

Equipment

Purging Method Equipment:	low flow / peristaltic	Initial Water Temp. (C):	
Sampling Equipment:	peristaltic / Horiba	Initial pH:	
Filtering Equipment:	0.45 µm	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in):	2	Length of Static Water Column (ft):	3.6
Unit Casing Volume (gal/ft):	0.16	Casing Water Volume (gal):	6.58
Depth to Water (ft below TOC):	22.40	Total Purge Volume:	0.75
Total Depth (ft below TOC):	26	Number of Purge Volumes:	>1

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
-	18.48	6.08	3.24	-156	0.00	23.4	0835	initial
0.25	18.42	6.10	3.20	-162	0.00	13.2	0840	
0.50	18.36	6.15	3.17	-165	0.00	14.1	0845	
0.75	18.40	6.17	3.16	-166	0.00	13.6	0850	

Total Volumes Removed (gallons): 0.75 Time: 0850 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.09
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

collect FB
roots/mull
cloudy gray/tan clear w/ plant particulates
no sheen, sulfur odor

8-9-22

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Groundwater Sample Field Data Form

Well Identification: MW-37

Page 1 of 1

Project Name:	Bloomfield DHC FT	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60077281	Sample ID:	MW-37
Location:	Bloomfield, NM	Sample Date:	8-4-22
Date:	8-4-22	Sample Time:	1230

Equipment

		Field Parameters	
Purging Method/Equipment	low flow / peristaltic	Initial Water Temp. (C)	
Sampling Equipment	peristaltic / Horiba	Initial pH	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	2	Length of Static Water Column (ft)	3.95
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.63
Depth to Water (ft below TOC)	23.48	Total Purge Volume	0.8
Total Depth (ft below TOC)	27.43	Number of Purge Volumes	>1

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	22.74	7.05	3.81	-49	0.00	0.0	~~1210~~ 1220	
0.4	22.90	7.10	3.87	-60	0.00	0.0	1225	
0.8	22.65	7.13	3.82	-59	0.00	0.0	1236	

Total Volumes Removed (gallons): 0.8 Time: 1230 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

clear
no HC odor
no sheen

8-4-2022

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Groundwater Sample Field Data Form

Well Identification: MW-38

Page 1 of 1

Project Name:	Bloomfield NM FT	Sampled By:	K Humphrey, D Waghorn, S Frederick, T Ginder
Project Number:	60677281	Sample ID:	MW-38
Location:	Bloomfield, NM	Sample Date:	8-9-22
Date:	8-9-22	Sample Time:	1020

Equipment

Purging Method Equipment	low flow / peristaltic
Sampling Equipment	peristaltic / Horiba
Filtering Equipment	0.45 µm

Field Parameters

Initial Water Temp. (C)	
Initial pH	
Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	2	Length of Static Water Column (ft)	3.6
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.58
Depth to Water (ft below TOC)	23.32	Total Purge Volume	0.75
Total Depth (ft below TOC)	26.92	Number of Purge Volumes	>1

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	21.64	6.48	1.57	-125	0.00	3.2	1005	initial
0.25	21.52	6.43	1.56	-127	0.00	3.1	1010	
0.50	21.45	6.40	1.56	-130	0.00	3.0	1015	
0.75	21.40	6.41	1.55	-131	0.00	3.0	1020	

Total Volumes Removed (gallons): 0.75 Time: 1020 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.
1.0	0.04
1.5	0.09
2.0	0.16
2.5	0.25
3.0	0.37
4.0	0.65
4.5	0.75
5.0	1.09
6.0	1.55
7.0	2.09
8.0	2.69

Additional Remarks

clear
no HC odor
no sheen

8-9-22

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Groundwater Sample Field Data Form

Well Identification MW-44

Page 1 of 1

Project Name:	Bloomfield ~~Unit~~ PT	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Gruike
Project Number:	60677281	Sample ID:	MW-44
Location:	Bloomfield, NM	Sample Date:	8-01-22
Date:	8-01-22	Sample Time:	

Equipment

		Field Parameters	
Purging Method/Equipment	low flow / bladder pump	Initial Water Temp. (C)	
Sampling Equipment	bladder pump / Horiba	Initial pH	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	2	Length of Static Water Column (ft)	16.1
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	2.58 = 9.8 L
Depth to Water (ft below TOC)	34.90	Total Purge Volume	
Total Depth (ft below TOC)	51.00	Number of Purge Volumes	

Volume Purged ~~(gal)~~ L	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
~	20.88	7.02	5.28	39	8.45	0.9	1515	
1.5	19.60	7.00	5.25	39	0.00	0.8	1520	
3.0	18.97	7.00	5.22	48	0.00	0.8	1525	
4.5	18.82	7.00	5.23	48	0.00	0.8	1530	
6.0	18.79	7.00	5.24	49	0.00	0.8	1535	
7.5	18.75	7.00	5.24	50	0.00	0.8	1540	

Total Volumes Removed (gallons): 7.5 L Time: 1540 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

clear

no HC odor

no sheen

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Groundwater Sample Field Data Form

Well Identification MW-51

Page 1 of 1

Project Name:	Bloomfield ~~UIC~~ FT	Sampled By:	K Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60077281	Sample ID:	MW-51
Location:	Bloomfield, NM	Sample Date:	8-03-22
Date:	8-03-22	Sample Time:	

Equipment

		Field Parameters	
Purging Method/Equipment	low flow / bladder pump	Initial Water Temp. (C)	
Sampling Equipment	bladder pump / Horiba	Initial pH:	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	7.31
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	4.75 = 17.98 L
Depth to Water (ft below TOC)	14.72	Total Purge Volume	
Total Depth (ft below TOC)	22.03	Number of Purge Volumes	

Volume Purged ~~(gal)~~ L	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
~~2.5~~ -	20.82	5.27	0.774	170	0.00	0.0	0925	
~~5.0~~ 2.5	19.95	6.71	0.747	165	0.00	0.0	0930	
~~7.5~~ 5.0	20.07	6.80	0.664	143	0.00	0.0	0935	
~~10~~ 7.5	19.92	6.81	0.663	142	0.00	0.0	0940	
10	19.75	6.82	0.661	142	0.00	0.0	0945	

Total Volumes Removed ~~(gallons)~~ L: 10L Time: 0945 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

collect MS/MSD
clear w/ black particulates
no HC odor
no sheen

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Groundwater Sample Field Data Form

Well Identification: MW-52

Page 1 of 1

Project Name:	Bloomfield OTC FT	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	MW-52
Location:	Bloomfield, NM	Sample Date:	8-02-22
Date:	8-02-22	Sample Time:	

Equipment

Purging Method/Equipment	low flow / bladder pump	Initial Water Temp. (C)	C
Sampling Equipment	bladder pump / tubing	Initial pH:	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm):	

Field Parameters

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	4.58
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	2.98 = 11.3 L
Depth to Water (ft below TOC)	37.20	Total Purge Volume	4.5 L
Total Depth (ft below TOC)	41.78	Number of Purge Volumes	< 1

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
-	23.25	5.85	5.23	175	0.00	3.3	1120	
1.5	22.07	6.23	5.34	171	0.00	3.0	1125	
3.0	21.42	6.24	5.33	170	0.00	3.1	1130	
4.5	21.69	6.25	5.32	168	0.00	2.9	1135	

Total Volumes Removed (gallons): 4.5 Time: 1135 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

no HC odor
clear
no sheen

8-2-2022

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Groundwater Sample Field Data Form

Well Identification: MW-53

Page 1 of 1

Project Name:	Bloomfield ~~DIC~~ FT	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	MW-53
Location:	Bloomfield, NM	Sample Date:	8-02-22
Date:	8-02-22	Sample Time:	1040

Equipment

		Field Parameters	
Purging Method/Equipment	low-flow / bladder pump	Initial Water Temp. (C)	
Sampling Equipment	bladder pump / Horiba	Initial pH:	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	3.78
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	2.46 = 9.31 L
Depth to Water (ft below TOC)	39.82	Total Purge Volume	3 L
Total Depth (ft below TOC)	43.6	Number of Purge Volumes	1

Volume Purged (gal) L	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
–	19.21	6.68	5.04	136	0.43	0.0	1030	initial
1.5	19.12	6.75	5.05	140	0.00	0.0	1035	
+ 3	19.07	6.81	5.04	142	0.00	0.0	1040	

Total Volumes Removed (~~gallons~~ L): 3 Time: 1040 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

no HC odor
no sheen
clear

8-02-22

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Groundwater Sample Field Data Form

Well Identification: MW-54

Page 1 of 1

Project Name:	Bloomfield ~~DIS~~ FT	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	MW-54
Location:	Bloomfield, NM	Sample Date:	8-02-22
Date:	8-02-22	Sample Time:	

Equipment

		Field Parameters	
Purging Method/Equipment	low flow / bladder pump	Initial Water Temp. (C)	
Sampling Equipment	bladder pump / Horiba	Initial pH:	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	32.41 4	Length of Static Water Column (ft)	8.81
Unit Casing Volume (gal/ft)	~~41.22~~ 0.65	Casing Water Volume (gal)	5.73
Depth to Water (ft below TOC)	32.41	Total Purge Volume	—
Total Depth (ft below TOC)	41.22	Number of Purge Volumes	—

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
		NOT SAMPLED -						
			SHEEN					

Total Volumes Removed (gallons): — Time: — Purged Dry (Y/N): —

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

HC odor
dark gray water / black particulates
sheen

8-02-22

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Groundwater Sample Field Data Form

Well Identification MW-59

Page 1 of 1

Project Name:	Bloomfield LHC	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	MW-59
Location:	Bloomfield, NM	Sample Date:	5-2-22
Date:	5-2-22	Sample Time:	1415

Equipment

Purging Method/Equipment	Low Flow / Bladder Pump
Sampling Equipment	Bladder Pump / Horiba
Filtering Equipment	0.45 µm

Field Parameters

Initial Water Temp. (C)	
Initial pH:	
Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	4.0	Length of Static Water Column (ft)	2.42
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	1.6
Depth to Water (ft below TOC)	44.52	Total Purge Volume	~~6~~ 3
Total Depth (ft below TOC)	46.94	Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
0	22.58	5.47	3.83	~~3003~~	0.0	0.0	1340	
1	21.43	5.36	3.89	4	0.0	0.0	1350	
2	20.38	5.24	3.82	4	0.0	0.0	1400	
2.5	19.45	5.16	3.83	5	0.0	0.0	1405	
3	19.12	5.14	3.83	5	0.0	0.0	1415	

Total Volumes Removed (gallons): 3 Time: 1415 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

~~MS/MSD~~ + 1 Dup/LC
Clear / Colorless
No Odor / Sheen

5.2.22

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Groundwater Sample Field Data Form

Well Identification: MW-62

Page 1 of 1

Project Name:	Bloomfield ~~TNC~~ FT	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	MW-62
Location:	Bloomfield, NM	Sample Date:	8-4-22
Date:	8-4-22	Sample Time:	0935

Equipment

		Field Parameters	
Purging Method/Equipment	low flow/ bladder pump	Initial Water Temp. (C)	
Sampling Equipment	bladder pump / HDPE	Initial pH	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	4.62
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	3 = 11.4 L
Depth to Water (ft below TOC)	56.76	Total Purge Volume	4.5 L
Total Depth (ft below TOC)	61.38	Number of Purge Volumes	4

Volume Purged ~~(gal)~~ L	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	20.76	6.72	6.16	52	0.00	0.0	0920	
1.5	20.52	6.83	6.20	51	0.00	0.0	0925	
3.0	20.18	6.84	6.21	51	0.00	0.0	0930	
4.5	20.06	6.85	6.22	50	0.00	0.0	0935	

Total Volumes Removed ~~(gallons)~~ L: 4.5 Time: 0935 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Collect MS/MSD
Clear
no HC odor
No sheen

8-4-2022

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Groundwater Sample Field Data Form

Well Identification MW-63

Page 1 of 1

Project Name:	Bloomfield UIC	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	MW-63
Location:	Bloomfield, NM	Sample Date:	8/2/22
Date:	8/2/22	Sample Time:	1205

Equipment

Purging Method/Equipment	low flow Bladder pump
Sampling Equipment	Horiba / Bladder pump
Filtering Equipment	0.45um

Field Parameters

Initial Water Temp. (C)	
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	2.28
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	1.48
Depth to Water (ft below TOC)	45.61	Total Purge Volume	
Total Depth (ft below TOC)	47.89	Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
0	21.12	6.16	2.31	-90	0.21	0.0	1140	initial

Total Volumes Removed (gallons): _____ Time: _____ Purged Dry (Y/N): _____

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

VOC, ~~DRO~~, GRO, ~~tot met~~, ~~Dissolved~~ Metal, ~~alk~~, ~~Anions~~, CO_2, ~~TDS~~

~~Well started spiking dry after 1 gallon purged, Grab Sample.~~ Well went dry ~3 minutes after starting purge. Allowed to recharge and sampled. Dissolved metals, VOCs, GR before well went dry again - Insufficient water for full suite.

8-2-22

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Groundwater Sample Field Data Form

Well Identification MW-64

Page _____ of _____

Project Name:	Bloomfield UIC	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	MW-64
Location:	Bloomfield, NM	Sample Date:	5.2.22
Date:	5.2.22	Sample Time:	1315

Equipment

Purging Method/Equipment	Low Flow Bladder Pump	Initial Water Temp. (C)	
Sampling Equipment	Bladder pump / Horiba	Initial pH:	
Filtering Equipment	0.45 um	Initial Conductance (mS/cm):	

Field Parameters

Purging Information

Casing ID (in)	4.0	Length of Static Water Column (ft)	1.73
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	1.12
Depth to Water (ft below TOC)	50.68	Total Purge Volume	
Total Depth (ft below TOC)	52.41	Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
0	27.71	6.45	4.28	10	3.35	0.0		

Total Volumes Removed (gallons): Sample Time: 1315 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Grab Sample immediately, well is storically
Glass Jug.
Clear/Colorless
No odor/sheen

8-2-22

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Groundwater Sample Field Data Form

Well Identification: MW-67

Page 1 of 1

Project Name:	Bloomfield	Sampled By:	K Humphrey, D. Watkins, S. Frederick, T. Grider
Project Number:	60671201	Sample ID:	MW-67
Location:	Bloomfield, NM	Sample Date:	6.4.22
Date:	6.4.22	Sample Time:	1330

Equipment

Purging Method Equipment	Low flow / Bladder	Initial Water Temp. (C)	
Sampling Equipment	Bladder / Hose	Initial pH	
Filtering Equipment	0.45 um	Initial Conductance (mS/cm)	

Field Parameters

Purging Information

Casing ID (in)	2.0	Length of Static Water Column (ft)	4.32
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.69
Depth to Water (ft below TOC)	21.80	Total Purge Volume	
Total Depth (ft below TOC)	26.12	Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
0	25.12	5.92	2.68	-51	1.37	0.0	1310	
0.5	25.22	6.01	2.07	-57	0.0	0.0	1315	
1	25.45	6.03	1.95	-60	0.0	0.0	1320	
1.5	25.49	6.05	1.90	-62	0.0	0.0	1325	
2	25.52	6.05	1.91	-63	0.0	0.0	1330	

Total Volumes Removed (gallons): 2 Time: 1330 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.76
5.0	1.00
6.0	1.50
7.0	2.00
8.0	2.60

Additional Remarks

clear / color less
No odor / sheen

6.4.22

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Groundwater Sample Field Data Form

Well Identification: MW-68

Page 1 of 1

Project Name:	Bloomfield ~~Ute~~ FT	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	MW-68
Location:	Bloomfield, NM	Sample Date:	8-3-22
Date:	8-3-22	Sample Time:	1500

Equipment

		Field Parameters	
Purging Method/Equipment	low flow / peristaltic	Initial Water Temp. (C)	
Sampling Equipment	peristaltic / Horiba	Initial pH:	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	4.0	Length of Static Water Column (ft)	3.96
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	2.57
Depth to Water (ft below TOC)	17.18	Total Purge Volume	1.5
Total Depth (ft below TOC)	21.14	Number of Purge Volumes	1

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	20.65	6.80	1.417	62	0.00	0.0	1440	
0.5	20.32	6.72	1.41	63	0.00	0.0	1445	
1	20.14	6.70	1.39	63	0.00	0.0	1450	
1.5	20.03	6.67	1.37	63	0.00	0.0	1500	

Total Volumes Removed (gallons): 1.5 Time: 1500 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

clear
no HC odor
no sheen

8-3-22

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Groundwater Sample Field Data Form

Well Identification: MW-70

Page 1 of 1

Project Name:	Bloomfield-NTC FT	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	MW-70
Location:	Bloomfield, NM	Sample Date:	8-2-22
Date:	8-2-22	Sample Time:	

Equipment

		Field Parameters	
Purging Method/Equipment	lowflow/bladder pump	Initial Water Temp. (C)	
Sampling Equipment	bladder pump/Horiba	Initial pH:	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	2.0	Length of Static Water Column (ft)	2.10
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.34 = 1.29 L
Depth to Water (ft below TOC)	26.65	Total Purge Volume	~~1.5 L~~
Total Depth (ft below TOC)	28.75	Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	25.03	6.03	4.99	-83	0.40	158	1220	
	well went dry, insufficient water for sample, no recharge							

Total Volumes Removed (gallons): — Time: — Purged Dry (Y/N): Y

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

cloudy brown
no HC odor
no sheen

8-2-22

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Groundwater Sample Field Data Form

Well Identification MW-73

Page 1 of 1

Project Name:	Bloomfield ~~WG~~ FT	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	MW-73
Location:	Bloomfield, NM	Sample Date:	8-01-22
Date:	8-01-22	Sample Time:	

Equipment

Purging Method/Equipment	Bladder pump/Horiba
Sampling Equipment	bladder pump
Filtering Equipment	0.45 µm

Field Parameters

Initial Water Temp. (C)	0
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	6.86
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	4.46 - 14.9 L
Depth to Water (ft below TOC)	29.97	Total Purge Volume	
Total Depth (ft below TOC)	36.83	Number of Purge Volumes	

Volume Purged ~~(gal)~~ L	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
-	22.43	6.96	2.12	-132	0.00	4.3	1355	initial
2.5	19.77	6.83	2.02	-137	0.00	3.7	1400	
5.0	19.41	6.81	2.00	-143	0.00	4.0	1405	
7.5	19.54	6.80	2.02	-145	0.00	3.8	1410	
10.0	19.50	6.80	2.03	-150	0.00	4.0	1415	
12.5	19.47	6.80	2.02	-148	0.00	4.1	1420	

Total Volumes Removed (~~gallons~~): 12.5 L Time: 1420 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

HC odor
no sheen
gray water w/ black particulates

8-01-22

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Groundwater Sample Field Data Form

Well Identification MW-75 74

Page _____ of _____

Project Name:	Bloomfield ~~NC~~ FT	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677261	Sample ID:	MW-~~75~~ 74
Location:	Bloomfield, NM	Sample Date:	8-01-22
Date:	8-01-22	Sample Time:	

Equipment

Purging Method/Equipment	bladder pump / Horiba
Sampling Equipment	bladder pump
Filtering Equipment	0.45 µm

Field Parameters

Initial Water Temp. (C)	
Initial pH:	
Initial Conductance (mS/cm).	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	4.64
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	3.02 = 11.4 L
Depth to Water (ft below TOC)	29.31	Total Purge Volume	—
Total Depth (ft below TOC)	33.95	Number of Purge Volumes	—

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	21.42	6.85	3.05	-186	0.00	7.7	1205	
	Sheen detected while purging							
	NOT SAMPLED- SHEEN							

Total Volumes Removed (gallons): — Time: — Purged Dry (Y/N): —

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

HC odor
dark gray water / black particulates
sheen

8-01-22

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Groundwater Sample Field Data Form

Well Identification: MW-75

Page 1 of 1

Project Name:	Bloomfield ~~HC~~ FT	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	MW-75
Location:	Bloomfield, NM	Sample Date:	—
Date:	8-01-22	Sample Time:	—

Equipment

		Field Parameters	
Purging Method/Equipment	QED bladder pump / Horiba	Initial Water Temp. (C)	
Sampling Equipment	bladder pump	Initial pH:	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	2	Length of Static Water Column (ft)	3.47
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.56
Depth to Water (ft below TOC)	28.91	Total Purge Volume	—
Total Depth (ft below TOC)	32.38	Number of Purge Volumes	—

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
		NOT SAMPLED —						
			SHEEN					

Total Volumes Removed (gallons): — Time: — Purged Dry (Y/N): —

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

sheen
HC odor
dark gray water

8-01-22

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Groundwater Sample Field Data Form

Well Identification: MW-76

Page 1 of 1

Project Name:	Bloomfield ~~Gic~~ FT	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677261	Sample ID:	MW-76
Location:	Bloomfield, NM	Sample Date:	8-01-22
Date:	8-01-22	Sample Time:	1135

Equipment

		Field Parameters	
Purging Method/Equipment	QED bladder pump / Horiba	Initial Water Temp. (C)	
Sampling Equipment	Bladder pump	Initial pH:	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	4	Length of Static Water Column (ft)	5.01
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	3.26 = 12.34 L
Depth to Water (ft below TOC)	29.12	Total Purge Volume	
Total Depth (ft below TOC)	34.13	Number of Purge Volumes	

0.5 L/min

Volume Purged ~~(gal)~~ L	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	22.00	6.90	1.76	-137	0.00	9.6	1120	initial
2.5 L	19.26	6.58	1.77	-126	0.00	7.1	1125	
5.0	18.75	6.57	1.76	-127	0.00	6.9	1130	
7.5	18.76	6.54	1.76	-127	0.00	6.8	1135	

Total Volumes Removed (~~gallons~~): 7.5 L Time: 1135 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

HC odor
no sheen
clear / slightly yellow

8-01-22

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Groundwater Sample Field Data Form

Well Identification MW-78

Page 1 of 1

Project Name:	Bloomfield ~~RFC~~ FT	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	MW-78
Location:	Bloomfield, NM	Sample Date:	8-03-22
Date:	8-03-22	Sample Time:	1105

Equipment

		Field Parameters	
Purging Method/Equipment	low flow / bladder pump	Initial Water Temp. (C)	
Sampling Equipment	bladder pump / Horiba	Initial pH	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	2	Length of Static Water Column (ft)	5.23
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.84 = 3.1 L
Depth to Water (ft below TOC)	32.88	Total Purge Volume	4.5 L
Total Depth (ft below TOC)	38.11	Number of Purge Volumes	<1

Volume Purged ~~(gal)~~ L	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	14.84	6.06	2.81	98	1.57	331	1050	initial
1.5	21.58	6.12	3.00	88	0.00	721	1055	
3.0	21.07	6.13	3.03	86	0.00	724	1100	
4.5	20.98	6.14	3.03	85	0.00	719	1105	

Total Volumes Removed ~~(gallons)~~ L: 4.5 L Time: 1105 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

collect field duplicate
cloudy water
no HC odor
no sheen

8-03-22

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Groundwater Sample Field Data Form

Well Identification: CW 0+60

Page 1 of 1

Project Name:	Stumpfield [illegible]	Sampled By:	K Humphrey, D Wagner, S Frederick, T Gudac
Project Number:	60072281	Sample ID:	CW 0+60
Location:	Bloomfield, NM	Sample Date:	8-4-22
Date:	8-4-22	Sample Time:	1045

Equipment

Purging Method Equipment	Bailer / 3 vols
Sampling Equipment	Bailer / Horiba
Filtering Equipment	—

Field Parameters

Initial Water Temp. (C)	
Initial pH	
Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	2" 4.0	Length of Static Water Column (ft)	5.7
Unit Casing Volume (gal/ft)	0.65	Casing Water Volume (gal)	3.7
Depth to Water (ft below TOC)	8.45	Total Purge Volume	12
Total Depth (ft below TOC)	14.15	Number of Purge Volumes	3

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
1	20.91	5.61	1.70	-59	0.0	24.0	1030	
4	20.34	5.53	1.66	-58	0.0	0.0	1035	
8	19.83	5.54	1.67	-62	0.0	0.0	1040	
12	19.74	5.55	1.68	-63	0.0	0.0	1045	

Total Volumes Removed (gallons): 12 Time: 1045 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.09
6.0	1.55
7.0	2.09
8.0	2.68

Additional Remarks

Orange/Brown material on bailer
Clear/Colorless
No odor/Sheen

8-4-22

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Groundwater Sample Field Data Form

Well Identification: CW 25+95

Page 1 of 1

Project Name:	Bloomfield UIC	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	CW 25+95 8-3-22
Location:	Bloomfield, NM	Sample Date:	
Date:	8-3-22	Sample Time:	

Equipment

		Field Parameters	
Purging Method/Equipment	~~Low flow~~ Bailer / Bladders	Initial Water Temp. (C)	
Sampling Equipment	Bailer / Honda	Initial pH:	
Filtering Equipment		Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	2.0	Length of Static Water Column (ft)	3.95
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.63
Depth to Water (ft below TOC)	8.40	Total Purge Volume	2
Total Depth (ft below TOC)	12.35	Number of Purge Volumes	3

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
0	20.93	5.74	3.23	+61	0.0	0.0	1320	
0.77	22.53	5.75	3.39	-59	0.0	6.0	1325	
1.5	22.17	5.71	3.44	-61	0.0	0.0	1330	
2	22.35	5.72	3.43	-62	0.0	0.1	1335	

Total Volumes Removed (gallons): _____ Time: _____ Purged Dry (Y/N): _____

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Slight ~~H~~ odor / No Sheen

Clear / Colorless

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Groundwater Sample Field Data Form

Well Identification: OW 0+60

Page: 1 of 1

Project Name:	Bloomfield	Sampled By	K Humphrey, D. Watson S. Frederick (C. Grab)
Project Number:	60677281	Sample ID:	OW 0+60
Location:	Bloomfield, NM	Sample Date:	8-4-22
Date:	8-4-22	Sample Time:	1015

Equipment

Purging Method Equipment	Bailer / 3 vols	Initial Water Temp. (C)	
Sampling Equipment	Bailer / Hach	Initial pH	
Filtering Equipment		Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	2.0	Length of Static Water Column (ft)	1.12
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.18
Depth to Water (ft below TOC)	11.22	Total Purge Volume	Sample
Total Depth (ft below TOC)	12.34	Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
Sample	20.61	5.85	1.67	7	0.0	152	1015	

Total Volumes Removed (gallons): Sample Time: 1015 Purged Dry (Y/N): Y

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.03
8.0	2.60

Additional Remarks

Insufficient water for purge. Collect Sample immediately.

Well want dry collecting parameters

8-4-22

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Groundwater Sample Field Data Form

Well Identification: OW 1+50

Page 1 of 1

Project Name:	Bloomfield Refinery	Sampled By:	K.Humphrey, D. Watson, S. Freeman, T. Gruber
Project Number:	60677281	Sample ID:	OW 1+50
Location:	Bloomfield, NM	Sample Date:	8-4-22
Date:	8-4-22	Sample Time:	

Equipment

Purging Method Equipment:	Bailer/3 Vols
Sampling Equipment:	Bailer/Horiba
Filtering Equipment:	

Field Parameters

Initial Water Temp. (C):	
Initial pH:	
Initial Conductance (mS/cm):	

Purging Information

Casing ID (in):	2.0	Length of Static Water Column (ft):	1.07
Unit Casing Volume (gal/ft):	0.16	Casing Water Volume (gal):	0.17
Depth to Water (ft Below TOC):	13.35	Total Purge Volume:	
Total Depth (ft Below TOC):	14.42	Number of Purge Volumes:	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
			DRY					
			NOT SAMPLED					

Total Volumes Removed (gallons): _____ Time: _____ Purged Dry (Y/N): _____

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.1	0.75
5.0	1.09
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Insufficient water to sample. First bail retrieved only ~4 inches of water. Second bail over 1.5 hrs.

8-4-22

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Groundwater Sample Field Data Form

Well Identification: OW 3+85

Page: 1 of 1

Project Name:	Bloomfield	Sampled By:	K Humphrey, D. Watson, S. Frederick, T. Grubb
Project Number:	60677291	Sample ID:	OW 3+85
Location:	Bloomfield, NM	Sample Date:	8-4-22
Date:	8-4-22	Sample Time:	

Equipment

Purging Method Equipment	Bailer/3 volume		
Sampling Equipment	Bailer / Horiba		
Filtering Equipment			

Field Parameters

Initial Water Temp. (C)	
Initial pH	
Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	2.0	Length of Static Water Column (ft)	1.88
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.30
Depth to Water (ft below TOC)	13.34	Total Purge Volume	
Total Depth (ft below TOC)	15.22	Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
			SHEEN					
			NOT SAMPLED					

Total Volumes Removed (gallons): _____ Time: _____ Purged Dry (Y/N): _____

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.53
7.0	2.00
8.0	2.60

Additional Remarks

Water retrieved from first bail has film of Product ~~on~~ on top of water. Water is grey/black with strong HC odor and strong sheen. No sample collected.

AECOM
6501 Americas Pkwy
Albuquerque, NM 87110
Tel: 505.856.7500
Fax: 505.856.7556

Groundwater Sample Field Data Form

Well Identification: OW 11+15

Page: 1 of 1

Project Name:	Bloomfield	Sampled By:	K Humphrey/D Wright/S Frederick/T Guinn
Project Number:	60677281	Sample ID:	OW 11+15
Location:	Bloomfield, NM	Sample Date:	8.4.22
Date:	8.4.22	Sample Time:	

Equipment

Purging Method Equipment	Bailer/3 vols	Field Parameters: Initial Water Temp (C)	
Sampling Equipment	Bailer/Marika	Initial pH	
Filtering Equipment		Initial Conductance (mS/cm)	

Purging Information

Casing ID (in)	2.0	Length of Static Water Column (ft)	4.04
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.64
Depth to Water (ft below TOC)	12.71	Total Purge Volume	
Total Depth (ft below TOC)	16.75	Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
			SHEEN					
			NOT SAMPLED					
~~0.35~~								
0.25	19.40	5.55	2.07	-83	0.0	0.0		

Total Volumes Removed (gallons): _____ Time: _____ Purged Dry (Y/N): _____

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.
1.0	0.04
1.5	0.09
2.0	0.16
2.5	0.25
3.0	0.37
4.0	0.65
4.5	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Strong Sheen observed from first bailer Full. Parameters collected, no sample collected

AECOM
6501 Americas Pkwy
Albuquerque, NM 87110
Tel: 505.855.7500
Fax: 505.855.7555

Groundwater Sample Field Data Form

Well Identification OW 16+60

Page 1 of 1

Project Name:	Bloomfield IDC	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	OW 16+60
Location:	Bloomfield, NM	Sample Date:	8.4.22
Date:	8.4.22	Sample Time:	0905

Equipment

Purging Method/Equipment	Bailer / 3 volumes	Initial Water Temp. (C)	/
Sampling Equipment	Bailer / Horiba	Initial pH:	/
Filtering Equipment		Initial Conductance (mS/cm):	/

Field Parameters

Purging Information

Casing ID (in)	2"	Length of Static Water Column (ft)	2.14
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.34
Depth to Water (ft below TOC)	13.17	Total Purge Volume	~~1.5~~ Sample
Total Depth (ft below TOC)	15.31	Number of Purge Volumes	~~1~~

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
~~0.25~~		Insufficient	Water for				~~0855~~	
~~0.75~~							~~0900~~	TL
~~1.25~~			Purge				0905	
Sample								
~~0905~~	20.66	5.75	41.19	-11.9	0.0	0.0	0905	

Total Volumes Removed (gallons): Sample Time: 0905 Purged Dry (Y/N): Y

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

First bail returned ~1/2 full. Grab sample immediately. Allow well to recharge then take parameters. Moderate HC odor / Very slight sheen formed after ~1.5L removed

8-4-22

AECOM
6501 Americas Pkwy
Albuquerque, NM 87110
Tel: 505.855.7500
Fax: 505.855.7555

Groundwater Sample Field Data Form

Well Identification DW 22100

Page 1 of 1

Project Name:	Bloomfield UIC	**Sampled By:**	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	**Sample ID:**	DW 22100
Location:	Bloomfield, NM	**Sample Date:**	8/3/22
Date:	8/3/22	**Sample Time:**	1455

Equipment

		Field Parameters	
Purging Method/Equipment	low flow/bailer	Initial Water Temp. (C)	9
Sampling Equipment	Horiba/bailer	Initial pH:	
Filtering Equipment	-	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	2	Length of Static Water Column (ft)	2.19
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.35
Depth to Water (ft below TOC)	12.03	Total Purge Volume	
Total Depth (ft below TOC)	14.22	Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
0.25	22.57	8.13	2.47	-151	9.83	122	1435	
							1455	Sample

Total Volumes Removed (gallons): 0.25 Time: 1455 Purged Dry (Y/N): Y

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

well dry at 1435 (0.25 gal)

1455 well recharged, collect sample

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Albuquerque, NM 87110
Tel: 505.855.7500
Fax: 505.855.7555

Groundwater Sample Field Data Form

Well Identification: OW 23+10

Page 1 of 1

Project Name:	Bloomfield ~~RTC~~	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	OW 23+10
Location:	Bloomfield, NM	Sample Date:	8/3/22
Date:	8/3/22	Sample Time:	1530

Equipment

Purging Method/Equipment	low flow/ Bailer	Initial Water Temp. (C)	
Sampling Equipment	Horiba/bailer	Initial pH:	
Filtering Equipment	—	Initial Conductance (mS/cm):	

Field Parameters

Purging Information

Casing ID (in)	2	Length of Static Water Column (ft)	1.73
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.28
Depth to Water (ft below TOC)	16.68	Total Purge Volume	
Total Depth (ft below TOC)	18.41	Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
0.25	24.17	8.02	1.67	-253	10.49	157	1430	
							1530	sample

Total Volumes Removed (gallons): 0.25 Time: _____ Purged Dry (Y/N): Y

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Well went dry after ~0.25 gal. Will wait for recharge + attempt to sample.
1530 Well recharged / sample collected

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Albuquerque, NM 87110
Tel: 505.855.7500
Fax: 505.855.7555

Groundwater Sample Field Data Form

Well Identification: OW 25+70

Page 1 of 1

Project Name:	Bloomfield WIC	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Gnipp
Project Number:	60677281	Sample ID:	OW 25+70
Location:	Bloomfield, NM	Sample Date:	5.3.22
Date:	8.3.22	Sample Time:	

Equipment

Purging Method/Equipment	Bailer	Initial Water Temp. (C)	
Sampling Equipment	Bailer/Horiba	Initial pH:	
Filtering Equipment		Initial Conductance (mS/cm):	

Field Parameters

Purging Information

Casing ID (in)	2.0	Length of Static Water Column (ft)	2.79
Unit Casing Volume (gal/ft)	0.16	Casing Water Volume (gal)	0.45
Depth to Water (ft below TOC)	11.25	Total Purge Volume	
Total Depth (ft below TOC)	14.04	Number of Purge Volumes	

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
0	23.40	5.89	2.56	25	0.0	0.0		
.75	22.32	5.72	2.47	+7	0.0	5.8	1227	Clear
1.23	21.62	5.60	2.51	-9	0.0	4.6	1235	

Total Volumes Removed (gallons): 1.25 Time: 1255 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

AECOM
6501 Americas Pkwy
Albuquerque, NM 87110
Tel: 505 855 7500
Fax: 505 855 7555

Groundwater Sample Field Data Form

Well Identification N of 45

Page 1 of 1

Project Name:	Bloomfield LUST	Sampled By:	K Humphrey/D. Wigton/S. Frederick/J. Grulke
Project Number:	60677281	Sample ID:	N of 45
Location:	Bloomfield, NM	Sample Date:	8-3-22
Date:	8-3-22	Sample Time:	0920

Equipment

		Field Parameters	
Purging Method/Equipment	Grab Sample/Peristaltic Pump	Initial Water Temp. (C)	
Sampling Equipment	Peristaltic/Hach	Initial pH:	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	—	Length of Static Water Column (ft)	—
Unit Casing Volume (gal/ft)	—	Casing Water Volume (gal)	—
Depth to Water (ft below TOC)	—	Total Purge Volume	—
Total Depth (ft below TOC)	—	Number of Purge Volumes	—

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
Grab	20.46	6.03	0.361	461	1.79	196	0920	

Total Volumes Removed (gallons): Sample Time: 0920 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

Grab Sample from River Outside of river terrace. No odors/sheen

8-3-22

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Groundwater Sample Field Data Form

Well Identification: NoAh of 46

Page 1 of 1

Project Name:	Bloomfield UIC	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	NoAh of 46
Location:	Bloomfield, NM	Sample Date:	8-4-22
Date:	8-4-22	Sample Time:	1420

Equipment

Purging Method/Equipment	—	Initial Water Temp (C)	
Sampling Equipment	Bailer	Initial pH	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm):	

Field Parameters

Purging Information

Casing ID (in)	—	Length of Static Water Column (ft)	—
Unit Casing Volume (gal/ft)	—	Casing Water Volume (gal)	—
Depth to Water (ft below TOC)	—	Total Purge Volume	—
Total Depth (ft below TOC)	—	Number of Purge Volumes	—

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	25.94	6.93	0.331	75	4.33	238	1420	

Total Volumes Removed (gallons): — Time: 1420 Purged Dry (Y/N): —

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

River sample - boat ramp

8-4-2022

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Groundwater Sample Field Data Form

Well Identification: Downstream

Page 1 of 1

Project Name:	Bloomfield UIC	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	Downstream
Location:	Bloomfield, NM	Sample Date:	8-4-22
Date:	8-4-22	Sample Time:	1345

Equipment

		Field Parameters	
Purging Method/Equipment	Bailer	Initial Water Temp. (C)	
Sampling Equipment		Initial pH:	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm):	

Purging Information

Casing ID (in)	—	Length of Static Water Column (ft)	—
Unit Casing Volume (gal/ft)	—	Casing Water Volume (gal)	—
Depth to Water (ft below TOC)	—	Total Purge Volume	—
Total Depth (ft below TOC)	—	Number of Purge Volumes	—

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	25.52	6.93	0.389	13	12.08	240	1340	

Total Volumes Removed (gallons): — Time: 1345 Purged Dry (Y/N): N

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

River sample - under bridge

8-4-2022

AECOM
6501 Americas Pkwy
Albuquerque, NM 87110
Tel: 505.855.7500
Fax: 505.855.7555

Groundwater Sample Field Data Form

Well Identification: upstream

Page 1 of 1

Project Name:	Bloomfield ~~THF~~ ET	Sampled By:	K.Humphrey/D. Wigton/S. Frederick/T. Grulke
Project Number:	60677281	Sample ID:	upstream
Location:	Bloomfield, NM	Sample Date:	8-9-22
Date:	8-9-22	Sample Time:	1350

Equipment

Purging Method/Equipment	—	Initial Water Temp. (C)	
Sampling Equipment	— Horiba	Initial pH:	
Filtering Equipment	0.45 µm	Initial Conductance (mS/cm):	

Field Parameters

Purging Information

Casing ID (in)	—	Length of Static Water Column (ft)	—
Unit Casing Volume (gal/ft)	—	Casing Water Volume (gal)	—
Depth to Water (ft below TOC)	—	Total Purge Volume	—
Total Depth (ft below TOC)	—	Number of Purge Volumes	—

Volume Purged (gal)	Temp (C)	pH	Conductance (mS/cm)	Orp millivolts	DO (mg/L)	Turbidity (NTU)	Time	Water Description
—	30.47	7.107	~~0.500~~ 0.540	6	10.21	>999	1350	

Total Volumes Removed (gallons): — Time: 1350 Purged Dry (Y/N): —

Casing Volume

Casing I.D. (in.)	Unit Casing Volume Gal/Lin. Ft.)
1.0	0.04
1.5	0.09
2.0	0.16
2.2	0.20
3.0	0.37
4.0	0.65
4.3	0.75
5.0	1.00
6.0	1.55
7.0	2.00
8.0	2.60

Additional Remarks

River sample - upstream different location due to mosquitos (36.70203473, -107.97684472)

8-9-22

Chain-of-Custody Record

Client: AECOM

Mailing Address: 6501 Americas Pkwy Suite 900 ABQ, NM 87110

Phone #: 505-699-3757

email or Fax#: seth.frederick@aecom.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____
☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☐ Rush_____

Project Name: MPC Full Terminal

Project #: 142937

Project Manager: Eddie Hulbert

Sampler: S Frederick

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp(including CF): (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	5VOCs	Co, Fe, Mn, Alkalinity	TDS	Total Metals	Dissolved Metals	
8/1/22	1135	GW	MW-76	4 amb x2, 1 amb, VOA	HCl, HNO3, H2SO4			X						X			X	X	X	X	X	
8/1/22	1540	GW	MW-44					X						X				X	X	X	X	
8/1/22	1420	GW	MW-73					X						X			X	X	X	X	X	
8/2/22	1125	GW	MW-52					X						X				X	X	X	X	
8/2/22	1040	GW	MW-53					X						X				X	X	X	X	
8/2/22	1335	GW	MW-29					X						X				X	X	X	X	
8/2/22	1335	GW	MW-29-FD					X						X				X	X	X	X	
8/2/22	1235	QC	MW-29-FB	5 VOA	5 vol HCl			X GRO						X								
8/2/22	1105	GW	MW-31					X						X				X	X	X	X	
8/2/22	1205	GW	MW-67					GRO						X							X	
8/2/22	1315	GW	MW-64					X						X				X	X	X	X	

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/2/22		Seth Frederick				
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: AECOM

Mailing Address: 6501 Americas Pkwy Ste 900
ABQ, NM 87110

Phone #: 505-358-0704

email or Fax#: tanner.gruike@aecom.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Bloomfield Terminal

Project #: 142937

Project Manager: Eddie Hubbert

Sampler: T. Gruike

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp(including CF): (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	SVOCs	CO_2, Anions, Alk	TDS	Total metals	Dissolved metals
8-3-22	0945	GW	MW-51	21	Misc.			X						X			X	X	X	X	X
8-3-22	1105	GW	MW-78	22	Misc.			X						X			X	X	X	X	X
8-3-22	1305	GW	MW-4	10	Misc.			X						X				X	X	X	X
8-3-22	1415	GW	MW-59	10	Misc.			X						X				X	X	X	X
8-3-22	1035	GW	CW 25+95	7	HCl/Cl/Na2S2O3			X						X					X		
8-3-22	1235	GW	OW 25+70	7	HCl			X						X					X		
8-3-22	0920	GW	N of 45	10	Misc.			X						X					X	X	X
8-3-22	1105	GW	MW-78-FD	11	Misc.			X						X			X	X	X	X	X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8-3-22	1516				8/3/22	1516
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: AECOM

Mailing Address: 6501 Americas PKWY STE 900
ABQ, NM 87110

Phone #: 505-356-0704

email or Fax#: tanner.gruike@aecom.com

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush_____

Project Name:
River Terrace

Project #:
142937

Project Manager:
Eddie Hubbert

Sampler:

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp(including CF): (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)						
8-3-22	1413	AIR	TP-8	1-Tedlar	None		X	X														
8-3-22	1343	AIR	TP-6	1-Tedlar	None		X	X														
8-3-22	1326	AIR	MW-46	1-Tedlar	None		X	X														
8-3-22	1305	AIR	DW-3	1-Tedlar	None		X	X														
8-3-22	1215	AIR	BV-5	1-Tedlar	None		X	X														
8-3-22	1235	AIR	BV-6	1-Tedlar	None		X	X														
8-3-22	1240	AIR	BV-4	1-Tedlar	None		X	X														
8-3-22	1245	AIR	BV-3	1-Tedlar	None		X	X														
8-3-22	1250	AIR	BV-1	1-Tedlar	None		X	X														

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8-3-22	1516				8/3/22	1516
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: AECOM

Mailing Address: 6501 Americas PKWY STE 900 ABQ, NM 87110

Phone #: 505-358-0704

email or Fax#: tanner.gralike@aecom.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: River Terrace

Project #: 142937

Project Manager: Eddie Hubbert

Sampler:

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp(including CF): (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Total metals
8-3-22	1115	GW	TP-7	5 VOA, 1 LAmber, 1 Poly	HCl, HNO3		X	X									X
8-3-22	1625	GW	TP-8	5 VOA, 1 LAmber, 1 Poly	HCl, HNO3		X	X									X
8-3-22	1037	GW	Collection Gallery	↓	↓		X	X									X
8-3-22	0950	GW	MW-48	↓	↓		X	X									X
8-3-22	0907	GW	TP-6				X	X									X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8-3-22	1516				8/3/22	1516
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: AECOM

Mailing Address: 6501 Americas Pkwy #900
Albuquerque, NM 87110

Phone #: 505-699-3257

email or Fax#: seth.frederick@aecom.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☐ Rush

Project Name: MPC River Terrace

Project #: 142937

Project Manager: Eddie Hubbut

Sampler: S Frederick

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp(including CF): (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Total metals					
8/2/22	1305	GW	DW-3	6 VOA, 1 amber, 1 250mL poly	HCl/HNO3		X	X									X					
	1215	GW	DW-4				X	X									X					
	1116	GW	TB-9				X	X									X					
	1215	QC	DW-4-FB	5 VOA	HCl		X	X														
	1116	GW	TB-9-FD				X	X									X					

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/2/22		Seth Frederick				
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: AECOM

Mailing Address: 6501 Americas PKwy STE 900
ABQ, NM 87110

Phone #: 505-358-0704

email or Fax#: tanner.grulke@aecom.com

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush_____

Project Name:
Bloomfield Terminal

Project #:
142937

Project Manager:
Eddie Hubbert

Sampler: T. Grulke

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp(including CF): (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	SVOCs	CO_2, Anions, Alk	TDS	Total Metals	Dissolved Metals	
8-4-22	1330	GW	MW-67	10	Misc.			X						X				X	X	X	X	
8-4-22	1242	GW	MW-1	10	Misc.			X						X				X	X	X	X	
8-4-22	1045	GW	CW 0+60	7 5 VOA 1 Poly 1 Amber	~~HCl~~ ~~Misc~~			X						X					X			
8-4-22	1242	GW	MW-1-FB	3 VOA	HCl									X					X			
8-4-22	1015	GW	OW 0+60	7 5 VOA 1 Poly 1 Amber	HCl			X						X					X			
8-4-22	0905	GW	OW 16+60	7 5 VOA 1 Poly 1 Amber	HCl			X						X					X			
8-3-22	1500	GW	MW-68	10	Misc.			X						X				X	X	X	X	X
8-3-22	1455	GW	OW 22+00	7	HCl			X						X					X			
8-3-22	1530	GW	OW 23+10	6	HCl			X						X					X			
8-4-22	1230	GW	MW-37	10	Misc.			X						X				X	X	X	X	X
8-4-22	1130	GW	MW-33	9	Misc.			X						X				X	X	X	X	X
8-4-22	1110	GW	MW-12	11	Misc.			X						X			X	X	X	X	X	X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8-4-22	1500 1442				8/4/22	1500
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: MW-33 has no DRO, insufficient water.
OW 23+10 has no TDS, insufficient water. If possible analyze TDS with any remaining DRO water.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: AECOM

Mailing Address: 6501 Americas PKWY STE 900 ABQ, NM 87110

Phone #: 505-358-0704

email or Fax#: tanner.gruike@aecom.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: Bloomfield Terminal

Project #: 142937

Project Manager: Eddie Hubbert

Sampler: T. Gruike

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp(including CF): (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	CO_2, Anions, AIK	TDS	Total Metals	Dissolved metals		
8-4-22	0935	GW	MW-62	20	Misc.			X						X			X	X	X	X		
8-4-22	1405	GW	Trip Blank	2-VOA	HCl									X								

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8-4-22	1500					
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
					8/4/22	1500

Remarks: MW-62 contains additional volume for MS/MSD

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: AECOM

Mailing Address: 6501 Americas Pkwy NE #900 Albuquerque NM 87110

Phone #: 575-910-7888

email or Fax#: tanner.mulke@aecom.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush_____

Project Name: Bloomfield Terminal

Project #: 146937

Project Manager: Eddie Hubbert

Sampler: Katie Humphrey

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp(including CF): (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	SVOCs	CO_3, Anions, Alkalinity	TDS	Total Metals	Dissolved Metals	Anions, Alkalinity
8-9-22	0850	GW	MW-35	10	Misc.			X						X				X	X	X	X	
8-9-22	0850	QC	MW-35-FB	5	HCl			8015						X								
8-9-22	~~0945~~ 0950	GW	MW-34	10	Misc.			X						X				X	X	X	X	
8-9-22	0940	GW	MW-34-FD	10	Misc.			X						X				X	X	X	X	
8-9-22	1020	GW	MW-38	11	Misc.			X						X			X	X	X	X	X	
8-9-22	1100	GW	MW-27	10	Misc.			X						X				X	X	X	X	
8-9-22	1100	QC	MW-27-EB	10	Misc.			X						X				X	X	X	X	
8-9-22	1140	GW	MW-26	10	Misc.			X						X				X	X	X	X	
8-9-22	1255	GW	MW-32	10	Misc.			X						X				X	X	X	X	
8-9-22	1350	GW	upstream	10	Misc.			X						X					X	X		X
8-9-22	1430	QC	TRIP BLANK	3	HCl									X								

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8-9-22	1500	Katie Humphrey			8/9/22	1500
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:
MW-26 had extremely bubbly water
No dissolved metals on upstream sample

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Received by OCD: 5/15/2023 3:52:10 PM

8-5-22 Bloomfield FT Annual Sampling

0730 K. Humphrey and B. Vos arrive on site, conduct tailgate.

Weather High 95°F, mostly sunny, no wind.

Personnel K. Humphrey + B. Vos (AECOM)

Equipment Horiba U-52 water quality meter
Bladder pump + controllers

0820 ~~Attem~~ Attempt to sample upstream river. Unable to sample due to swarms of mosquitos

0915 Sample MW-13. See purge log

0930 Return to office to pack cooler after buying ice. Organize field room, equipment, and coolers.

1142 Christine from Hall Env. picks up sample cooler.

1200 End of field day, return to Albuquerque.

8-5-22

Released to Imaging: 11/21/2023 10:35:22 AM

8-9-22 Bloomfield FT Annual Sampling

0730 K. Humphrey and R. Hannah arrive on site, conduct tailgate.

0800 Load equipment / coolers into truck, calibrate Horiba.

Weather High 92°F, sunny, wind 10 mph.

Personnel K. Humphrey & R. Hannah (AECOM)

Equipment Horiba U-52 Water Quality Meter
Office peristaltic pump
bladder pump & controller

0850 Sample MW-35, collect FB. See purge log for details.

0940 Sample MW-34, collect FD. See purge log for details.

1020 Sample MW-38. See purge log for details.

1100 Sample MW-27, collect EB. See purge log for details.

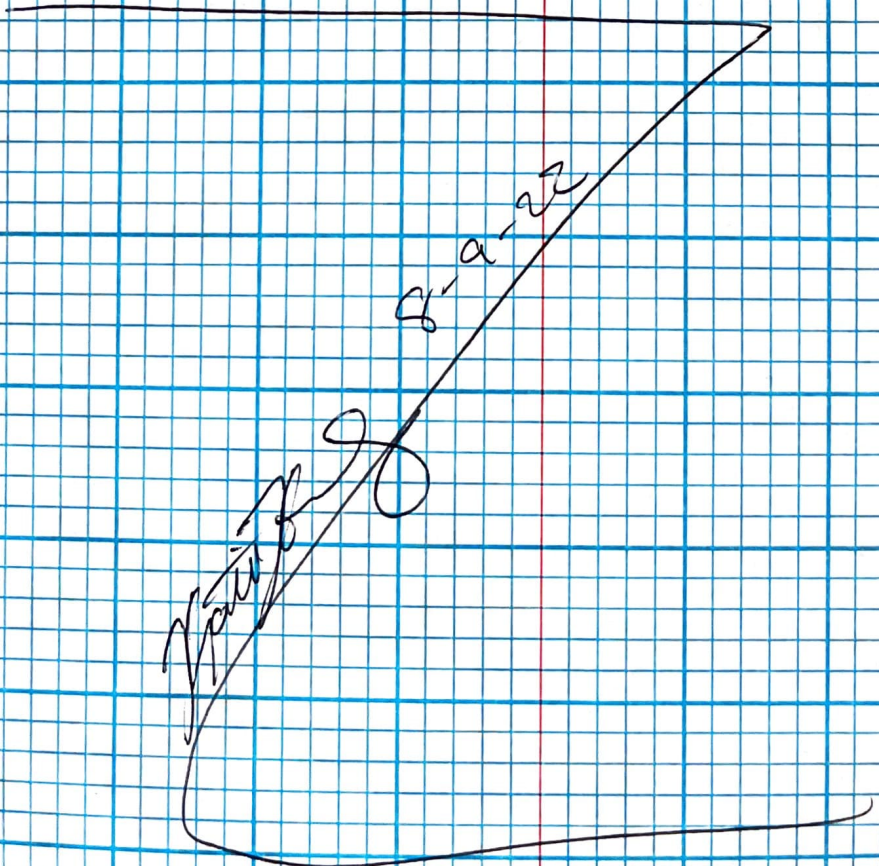
1140 Sample MW-26. See purge log for details.

1255 Sample MW-32. See purge log for details.

1350 Sample upstream riser, different location (GPS written on purge log)

Q4 2022 Semi-Annual Sampling

1415	Head to gas station for ice.
1430	Pack sample coolers
1500	Christine from Hall Env. picks up sample coolers. Was told by Marc Brunet that there is a meeting taking place and we can return at 1600.
1600	Return to pack equipment, return field supplies to shed, organize field office.
1705	Ship equipment at UPS.
1730	Arrive at hotel, end of field day.



ENSOLUM

APPENDIX C

Laboratory Analytical Reports

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 29, 2022

Eddie Hubbert

AECOM
6501 Americas Parkway NE Suite 900
Albuquerque, NM 87110
TEL: (505) 855-7500
FAX (505) 855-7555

RE: Bloomfield Full Terminal OrderNo.: 2204664

Dear Eddie Hubbert:

Hall Environmental Analysis Laboratory received 13 sample(s) on 4/14/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM **Client Sample ID:** MW-12
Project: Bloomfield Full Terminal **Collection Date:** 4/12/2022 1:45:00 PM
Lab ID: 2204664-001 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	ND	0.016	0.064		mg/L	1	4/26/2022 8:29:26 PM	66892
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	4/26/2022 8:29:26 PM	66892
Surr: DNOP	98.1	0	42.2-138		%Rec	1	4/26/2022 8:29:26 PM	66892
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	4/16/2022 5:19:00 PM	A87296
Surr: BFB	100	0	70-130		%Rec	1	4/16/2022 5:19:00 PM	A87296
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Toluene	ND	0.20	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Ethylbenzene	ND	0.21	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Naphthalene	ND	0.50	2.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Acetone	ND	2.5	10		µg/L	1	4/21/2022 6:06:00 AM	B87371
Bromobenzene	ND	0.28	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Bromodichloromethane	ND	0.20	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Bromoform	ND	0.31	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Bromomethane	ND	0.85	3.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
2-Butanone	ND	2.0	10		µg/L	1	4/21/2022 6:06:00 AM	B87371
Carbon disulfide	ND	0.59	10		µg/L	1	4/21/2022 6:06:00 AM	B87371
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Chlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Chloroethane	ND	0.38	2.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Chloroform	ND	0.13	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Chloromethane	ND	0.41	3.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Dibromochloromethane	ND	0.28	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Dibromomethane	ND	0.31	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM **Client Sample ID:** MW-12
Project: Bloomfield Full Terminal **Collection Date:** 4/12/2022 1:45:00 PM
Lab ID: 2204664-001 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
2-Hexanone	ND	1.8	10		µg/L	1	4/21/2022 6:06:00 AM	B87371
Isopropylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	4/21/2022 6:06:00 AM	B87371
Methylene Chloride	ND	0.50	3.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
n-Butylbenzene	ND	0.25	3.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
n-Propylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Styrene	ND	0.14	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Vinyl chloride	ND	0.32	1.0		µg/L	1	4/21/2022 6:06:00 AM	B87371
Xylenes, Total	ND	0.37	1.5		µg/L	1	4/21/2022 6:06:00 AM	B87371
Surr: 1,2-Dichloroethane-d4	99.1	0	70-130		%Rec	1	4/21/2022 6:06:00 AM	B87371
Surr: 4-Bromofluorobenzene	97.2	0	70-130		%Rec	1	4/21/2022 6:06:00 AM	B87371
Surr: Dibromofluoromethane	102	0	70-130		%Rec	1	4/21/2022 6:06:00 AM	B87371
Surr: Toluene-d8	92.6	0	70-130		%Rec	1	4/21/2022 6:06:00 AM	B87371
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-12
Project: Bloomfield Full Terminal
Collection Date: 4/12/2022 1:45:00 PM
Lab ID: 2204664-001
Matrix: AQUEOUS
Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	587	20.0	20.0	*	mg/L	1	4/21/2022 12:14:00 PM	66920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM **Client Sample ID:** MW-37
Project: Bloomfield Full Terminal **Collection Date:** 4/12/2022 2:51:00 PM
Lab ID: 2204664-002 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	0.13	0.016	0.064		mg/L	1	4/26/2022 8:53:06 PM	66892
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	4/26/2022 8:53:06 PM	66892
Surr: DNOP	109	0	42.2-138		%Rec	1	4/26/2022 8:53:06 PM	66892
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	4/16/2022 6:18:00 PM	A87296
Surr: BFB	106	0	70-130		%Rec	1	4/16/2022 6:18:00 PM	A87296
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Toluene	ND	0.20	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Ethylbenzene	ND	0.21	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Naphthalene	ND	0.50	2.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Acetone	ND	2.5	10		µg/L	1	4/21/2022 6:29:00 AM	B87371
Bromobenzene	ND	0.28	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Bromodichloromethane	ND	0.20	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Bromoform	ND	0.31	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Bromomethane	ND	0.85	3.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
2-Butanone	ND	2.0	10		µg/L	1	4/21/2022 6:29:00 AM	B87371
Carbon disulfide	ND	0.59	10		µg/L	1	4/21/2022 6:29:00 AM	B87371
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Chlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Chloroethane	ND	0.38	2.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Chloroform	ND	0.13	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Chloromethane	ND	0.41	3.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Dibromochloromethane	ND	0.28	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Dibromomethane	ND	0.31	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM **Client Sample ID:** MW-37
Project: Bloomfield Full Terminal **Collection Date:** 4/12/2022 2:51:00 PM
Lab ID: 2204664-002 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
2-Hexanone	ND	1.8	10		µg/L	1	4/21/2022 6:29:00 AM	B87371
Isopropylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	4/21/2022 6:29:00 AM	B87371
Methylene Chloride	ND	0.50	3.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
n-Butylbenzene	ND	0.25	3.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
n-Propylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Styrene	ND	0.14	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Vinyl chloride	ND	0.32	1.0		µg/L	1	4/21/2022 6:29:00 AM	B87371
Xylenes, Total	ND	0.37	1.5		µg/L	1	4/21/2022 6:29:00 AM	B87371
Surr: 1,2-Dichloroethane-d4	99.0	0	70-130		%Rec	1	4/21/2022 6:29:00 AM	B87371
Surr: 4-Bromofluorobenzene	101	0	70-130		%Rec	1	4/21/2022 6:29:00 AM	B87371
Surr: Dibromofluoromethane	99.7	0	70-130		%Rec	1	4/21/2022 6:29:00 AM	B87371
Surr: Toluene-d8	94.8	0	70-130		%Rec	1	4/21/2022 6:29:00 AM	B87371
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-37
Project: Bloomfield Full Terminal
Collection Date: 4/12/2022 2:51:00 PM
Lab ID: 2204664-002
Matrix: AQUEOUS
Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	3320	40.0	40.0	*D	mg/L	1	4/21/2022 12:14:00 PM	66920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM **Client Sample ID:** MW-33
Project: Bloomfield Full Terminal **Collection Date:** 4/12/2022 3:20:00 PM
Lab ID: 2204664-003 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	0.061	0.016	0.064	J	mg/L	1	4/26/2022 9:16:42 PM	66892
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	4/26/2022 9:16:42 PM	66892
Surr: DNOP	115	0	42.2-138		%Rec	1	4/26/2022 9:16:42 PM	66892
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	4/16/2022 6:37:00 PM	A87296
Surr: BFB	101	0	70-130		%Rec	1	4/16/2022 6:37:00 PM	A87296
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Toluene	ND	0.20	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Ethylbenzene	ND	0.21	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Naphthalene	ND	0.50	2.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Acetone	ND	2.5	10		µg/L	1	4/21/2022 6:52:00 AM	B87371
Bromobenzene	ND	0.28	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Bromodichloromethane	ND	0.20	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Bromoform	ND	0.31	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Bromomethane	ND	0.85	3.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
2-Butanone	ND	2.0	10		µg/L	1	4/21/2022 6:52:00 AM	B87371
Carbon disulfide	ND	0.59	10		µg/L	1	4/21/2022 6:52:00 AM	B87371
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Chlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Chloroethane	ND	0.38	2.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Chloroform	ND	0.13	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Chloromethane	ND	0.41	3.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Dibromochloromethane	ND	0.28	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Dibromomethane	ND	0.31	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM **Client Sample ID:** MW-33
Project: Bloomfield Full Terminal **Collection Date:** 4/12/2022 3:20:00 PM
Lab ID: 2204664-003 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
2-Hexanone	ND	1.8	10		µg/L	1	4/21/2022 6:52:00 AM	B87371
Isopropylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	4/21/2022 6:52:00 AM	B87371
Methylene Chloride	ND	0.50	3.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
n-Butylbenzene	ND	0.25	3.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
n-Propylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Styrene	ND	0.14	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Vinyl chloride	ND	0.32	1.0		µg/L	1	4/21/2022 6:52:00 AM	B87371
Xylenes, Total	ND	0.37	1.5		µg/L	1	4/21/2022 6:52:00 AM	B87371
Surr: 1,2-Dichloroethane-d4	97.8	0	70-130		%Rec	1	4/21/2022 6:52:00 AM	B87371
Surr: 4-Bromofluorobenzene	96.7	0	70-130		%Rec	1	4/21/2022 6:52:00 AM	B87371
Surr: Dibromofluoromethane	101	0	70-130		%Rec	1	4/21/2022 6:52:00 AM	B87371
Surr: Toluene-d8	93.0	0	70-130		%Rec	1	4/21/2022 6:52:00 AM	B87371
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-33
Project: Bloomfield Full Terminal
Collection Date: 4/12/2022 3:20:00 PM
Lab ID: 2204664-003
Matrix: AQUEOUS
Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	3600	20.0	20.0	*	mg/L	1	4/21/2022 12:14:00 PM	66920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM **Client Sample ID:** CW 0+60
Project: Bloomfield Full Terminal **Collection Date:** 4/13/2022 9:25:00 AM
Lab ID: 2204664-004 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	2.5	0.016	0.064		mg/L	1	4/26/2022 9:40:20 PM	66892
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	4/26/2022 9:40:20 PM	66892
Surr: DNOP	105	0	42.2-138		%Rec	1	4/26/2022 9:40:20 PM	66892
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	0.72	0.23	1.0	J	µg/L	1	4/21/2022 7:38:00 AM	B87371
Toluene	ND	0.20	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Ethylbenzene	2.7	0.21	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Methyl tert-butyl ether (MTBE)	1.6	0.39	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
1,2,4-Trimethylbenzene	0.16	0.12	1.0	J	µg/L	1	4/21/2022 7:38:00 AM	B87371
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
1,2-Dichloroethane (EDC)	0.41	0.25	1.0	J	µg/L	1	4/21/2022 7:38:00 AM	B87371
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Naphthalene	130	5.0	20		µg/L	10	4/21/2022 7:15:00 AM	B87371
1-Methylnaphthalene	23	0.84	4.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
2-Methylnaphthalene	46	0.69	4.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Acetone	ND	2.5	10		µg/L	1	4/21/2022 7:38:00 AM	B87371
Bromobenzene	ND	0.28	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Bromodichloromethane	ND	0.20	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Bromoform	ND	0.31	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Bromomethane	ND	0.85	3.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
2-Butanone	ND	2.0	10		µg/L	1	4/21/2022 7:38:00 AM	B87371
Carbon disulfide	ND	0.59	10		µg/L	1	4/21/2022 7:38:00 AM	B87371
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Chlorobenzene	0.56	0.16	1.0	J	µg/L	1	4/21/2022 7:38:00 AM	B87371
Chloroethane	ND	0.38	2.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Chloroform	ND	0.13	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Chloromethane	ND	0.41	3.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Dibromochloromethane	ND	0.28	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Dibromomethane	ND	0.31	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
1,2-Dichlorobenzene	0.43	0.15	1.0	J	µg/L	1	4/21/2022 7:38:00 AM	B87371
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: CW 0+60
Project: Bloomfield Full Terminal
Collection Date: 4/13/2022 9:25:00 AM
Lab ID: 2204664-004 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
2-Hexanone	ND	1.8	10		µg/L	1	4/21/2022 7:38:00 AM	B87371
Isopropylbenzene	130	1.8	10		µg/L	10	4/21/2022 7:15:00 AM	B87371
4-Isopropyltoluene	0.33	0.20	1.0	J	µg/L	1	4/21/2022 7:38:00 AM	B87371
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	4/21/2022 7:38:00 AM	B87371
Methylene Chloride	0.56	0.50	3.0	J	µg/L	1	4/21/2022 7:38:00 AM	B87371
n-Butylbenzene	2.9	0.25	3.0	J	µg/L	1	4/21/2022 7:38:00 AM	B87371
n-Propylbenzene	110	1.8	10		µg/L	10	4/21/2022 7:15:00 AM	B87371
sec-Butylbenzene	18	0.14	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Styrene	ND	0.14	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
tert-Butylbenzene	4.0	0.24	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
1,1,2,2-Tetrachloroethane	0.85	0.27	2.0	J	µg/L	1	4/21/2022 7:38:00 AM	B87371
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Vinyl chloride	ND	0.32	1.0		µg/L	1	4/21/2022 7:38:00 AM	B87371
Xylenes, Total	0.60	0.37	1.5	J	µg/L	1	4/21/2022 7:38:00 AM	B87371
Surr: 1,2-Dichloroethane-d4	88.3	0	70-130		%Rec	1	4/21/2022 7:38:00 AM	B87371
Surr: 4-Bromofluorobenzene	98.4	0	70-130		%Rec	1	4/21/2022 7:38:00 AM	B87371
Surr: Dibromofluoromethane	97.1	0	70-130		%Rec	1	4/21/2022 7:38:00 AM	B87371
Surr: Toluene-d8	147	0	70-130	S	%Rec	1	4/21/2022 7:38:00 AM	B87371
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	1230	100	100	*D	mg/L	1	4/21/2022 12:14:00 PM	66920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-13
Project: Bloomfield Full Terminal
Collection Date: 4/13/2022 10:06:00 AM
Lab ID: 2204664-005 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Toluene	ND	0.20	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Ethylbenzene	ND	0.21	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Methyl tert-butyl ether (MTBE)	1.2	0.39	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Naphthalene	0.51	0.50	2.0	J	µg/L	1	4/21/2022 8:24:00 AM	B87371
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Acetone	ND	2.5	10		µg/L	1	4/21/2022 8:24:00 AM	B87371
Bromobenzene	ND	0.28	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Bromodichloromethane	ND	0.20	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Bromoform	ND	0.31	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Bromomethane	ND	0.85	3.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
2-Butanone	ND	2.0	10		µg/L	1	4/21/2022 8:24:00 AM	B87371
Carbon disulfide	ND	0.59	10		µg/L	1	4/21/2022 8:24:00 AM	B87371
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Chlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Chloroethane	ND	0.38	2.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Chloroform	ND	0.13	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Chloromethane	ND	0.41	3.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Dibromochloromethane	ND	0.28	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Dibromomethane	ND	0.31	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	4/21/2022 8:24:00 AM	B87371

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-13
Project: Bloomfield Full Terminal
Collection Date: 4/13/2022 10:06:00 AM
Lab ID: 2204664-005
Matrix: AQUEOUS
Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
2-Hexanone	ND	1.8	10		µg/L	1	4/21/2022 8:24:00 AM	B87371
Isopropylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	4/21/2022 8:24:00 AM	B87371
Methylene Chloride	ND	0.50	3.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
n-Butylbenzene	ND	0.25	3.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
n-Propylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Styrene	ND	0.14	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Vinyl chloride	ND	0.32	1.0		µg/L	1	4/21/2022 8:24:00 AM	B87371
Xylenes, Total	ND	0.37	1.5		µg/L	1	4/21/2022 8:24:00 AM	B87371
Surr: 1,2-Dichloroethane-d4	98.5	0	70-130		%Rec	1	4/21/2022 8:24:00 AM	B87371
Surr: 4-Bromofluorobenzene	97.6	0	70-130		%Rec	1	4/21/2022 8:24:00 AM	B87371
Surr: Dibromofluoromethane	102	0	70-130		%Rec	1	4/21/2022 8:24:00 AM	B87371
Surr: Toluene-d8	92.6	0	70-130		%Rec	1	4/21/2022 8:24:00 AM	B87371
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	2040	20.0	20.0	*	mg/L	1	4/21/2022 12:14:00 PM	66920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-52
Project: Bloomfield Full Terminal
Collection Date: 4/13/2022 10:35:00 AM
Lab ID: 2204664-006
Matrix: AQUEOUS
Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Toluene	ND	0.20	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Ethylbenzene	ND	0.21	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Naphthalene	ND	0.50	2.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Acetone	ND	2.5	10		µg/L	1	4/21/2022 9:33:00 AM	B87371
Bromobenzene	ND	0.28	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Bromodichloromethane	ND	0.20	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Bromoform	ND	0.31	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Bromomethane	ND	0.85	3.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
2-Butanone	ND	2.0	10		µg/L	1	4/21/2022 9:33:00 AM	B87371
Carbon disulfide	ND	0.59	10		µg/L	1	4/21/2022 9:33:00 AM	B87371
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Chlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Chloroethane	ND	0.38	2.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Chloroform	ND	0.13	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Chloromethane	ND	0.41	3.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Dibromochloromethane	ND	0.28	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Dibromomethane	ND	0.31	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	4/21/2022 9:33:00 AM	B87371

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-52
Project: Bloomfield Full Terminal
Collection Date: 4/13/2022 10:35:00 AM
Lab ID: 2204664-006
Matrix: AQUEOUS
Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
2-Hexanone	ND	1.8	10		µg/L	1	4/21/2022 9:33:00 AM	B87371
Isopropylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	4/21/2022 9:33:00 AM	B87371
Methylene Chloride	ND	0.50	3.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
n-Butylbenzene	ND	0.25	3.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
n-Propylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Styrene	ND	0.14	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Vinyl chloride	ND	0.32	1.0		µg/L	1	4/21/2022 9:33:00 AM	B87371
Xylenes, Total	ND	0.37	1.5		µg/L	1	4/21/2022 9:33:00 AM	B87371
Surr: 1,2-Dichloroethane-d4	97.7	0	70-130		%Rec	1	4/21/2022 9:33:00 AM	B87371
Surr: 4-Bromofluorobenzene	96.5	0	70-130		%Rec	1	4/21/2022 9:33:00 AM	B87371
Surr: Dibromofluoromethane	101	0	70-130		%Rec	1	4/21/2022 9:33:00 AM	B87371
Surr: Toluene-d8	93.2	0	70-130		%Rec	1	4/21/2022 9:33:00 AM	B87371
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	3780	40.0	40.0	*D	mg/L	1	4/21/2022 12:14:00 PM	66920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-52-FB
Project: Bloomfield Full Terminal
Collection Date: 4/13/2022 10:35:00 AM
Lab ID: 2204664-007
Matrix: AQUEOUS
Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Toluene	ND	0.20	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Ethylbenzene	ND	0.21	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Naphthalene	ND	0.50	2.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Acetone	ND	2.5	10		µg/L	1	4/21/2022 9:56:00 AM	B87371
Bromobenzene	ND	0.28	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Bromodichloromethane	ND	0.20	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Bromoform	ND	0.31	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Bromomethane	ND	0.85	3.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
2-Butanone	ND	2.0	10		µg/L	1	4/21/2022 9:56:00 AM	B87371
Carbon disulfide	ND	0.59	10		µg/L	1	4/21/2022 9:56:00 AM	B87371
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Chlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Chloroethane	ND	0.38	2.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Chloroform	ND	0.13	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Chloromethane	ND	0.41	3.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Dibromochloromethane	ND	0.28	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Dibromomethane	ND	0.31	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	4/21/2022 9:56:00 AM	B87371

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM **Client Sample ID:** MW-52-FB
Project: Bloomfield Full Terminal **Collection Date:** 4/13/2022 10:35:00 AM
Lab ID: 2204664-007 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
2-Hexanone	ND	1.8	10		µg/L	1	4/21/2022 9:56:00 AM	B87371
Isopropylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	4/21/2022 9:56:00 AM	B87371
Methylene Chloride	ND	0.50	3.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
n-Butylbenzene	ND	0.25	3.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
n-Propylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Styrene	ND	0.14	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Vinyl chloride	ND	0.32	1.0		µg/L	1	4/21/2022 9:56:00 AM	B87371
Xylenes, Total	ND	0.37	1.5		µg/L	1	4/21/2022 9:56:00 AM	B87371
Surr: 1,2-Dichloroethane-d4	98.4	0	70-130		%Rec	1	4/21/2022 9:56:00 AM	B87371
Surr: 4-Bromofluorobenzene	96.6	0	70-130		%Rec	1	4/21/2022 9:56:00 AM	B87371
Surr: Dibromofluoromethane	102	0	70-130		%Rec	1	4/21/2022 9:56:00 AM	B87371
Surr: Toluene-d8	93.9	0	70-130		%Rec	1	4/21/2022 9:56:00 AM	B87371

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM **Client Sample ID:** MW-1
Project: Bloomfield Full Terminal **Collection Date:** 4/13/2022 11:30:00 AM
Lab ID: 2204664-008 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	0.098	0.016	0.064		mg/L	1	4/26/2022 10:04:01 PM	66892
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	4/26/2022 10:04:01 PM	66892
Surr: DNOP	115	0	42.2-138		%Rec	1	4/26/2022 10:04:01 PM	66892
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	4/16/2022 6:57:00 PM	A87296
Surr: BFB	94.3	0	70-130		%Rec	1	4/16/2022 6:57:00 PM	A87296
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Toluene	ND	0.20	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Ethylbenzene	ND	0.21	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Naphthalene	ND	0.50	2.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Acetone	ND	2.5	10		µg/L	1	4/21/2022 10:19:00 AM	B87371
Bromobenzene	ND	0.28	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Bromodichloromethane	ND	0.20	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Bromoform	ND	0.31	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Bromomethane	ND	0.85	3.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
2-Butanone	ND	2.0	10		µg/L	1	4/21/2022 10:19:00 AM	B87371
Carbon disulfide	ND	0.59	10		µg/L	1	4/21/2022 10:19:00 AM	B87371
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Chlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Chloroethane	ND	0.38	2.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Chloroform	ND	0.13	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Chloromethane	ND	0.41	3.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Dibromochloromethane	ND	0.28	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Dibromomethane	ND	0.31	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM **Client Sample ID:** MW-1
Project: Bloomfield Full Terminal **Collection Date:** 4/13/2022 11:30:00 AM
Lab ID: 2204664-008 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
2-Hexanone	ND	1.8	10		µg/L	1	4/21/2022 10:19:00 AM	B87371
Isopropylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	4/21/2022 10:19:00 AM	B87371
Methylene Chloride	ND	0.50	3.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
n-Butylbenzene	ND	0.25	3.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
n-Propylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Styrene	ND	0.14	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Vinyl chloride	ND	0.32	1.0		µg/L	1	4/21/2022 10:19:00 AM	B87371
Xylenes, Total	ND	0.37	1.5		µg/L	1	4/21/2022 10:19:00 AM	B87371
Surr: 1,2-Dichloroethane-d4	98.8	0	70-130		%Rec	1	4/21/2022 10:19:00 AM	B87371
Surr: 4-Bromofluorobenzene	95.7	0	70-130		%Rec	1	4/21/2022 10:19:00 AM	B87371
Surr: Dibromofluoromethane	103	0	70-130		%Rec	1	4/21/2022 10:19:00 AM	B87371
Surr: Toluene-d8	92.4	0	70-130		%Rec	1	4/21/2022 10:19:00 AM	B87371
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-1
Project: Bloomfield Full Terminal
Collection Date: 4/13/2022 11:30:00 AM
Lab ID: 2204664-008
Matrix: AQUEOUS
Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	440	200	200	D	mg/L	1	4/21/2022 12:14:00 PM	66920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM **Client Sample ID:** OW 25+70
Project: Bloomfield Full Terminal **Collection Date:** 4/13/2022 12:16:00 PM
Lab ID: 2204664-009 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	0.072	0.016	0.064		mg/L	1	4/26/2022 10:27:42 PM	66892
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	4/26/2022 10:27:42 PM	66892
Surr: DNOP	116	0	42.2-138		%Rec	1	4/26/2022 10:27:42 PM	66892
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	0.073	0.0090	0.050		mg/L	1	4/16/2022 7:16:00 PM	A87296
Surr: BFB	99.5	0	70-130		%Rec	1	4/16/2022 7:16:00 PM	A87296
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Toluene	ND	0.20	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Ethylbenzene	ND	0.21	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Naphthalene	ND	0.50	2.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Acetone	ND	2.5	10		µg/L	1	4/21/2022 10:42:00 AM	B87371
Bromobenzene	ND	0.28	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Bromodichloromethane	0.68	0.20	1.0	J	µg/L	1	4/21/2022 10:42:00 AM	B87371
Bromoform	ND	0.31	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Bromomethane	ND	0.85	3.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
2-Butanone	ND	2.0	10		µg/L	1	4/21/2022 10:42:00 AM	B87371
Carbon disulfide	ND	0.59	10		µg/L	1	4/21/2022 10:42:00 AM	B87371
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Chlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Chloroethane	ND	0.38	2.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Chloroform	ND	0.13	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Chloromethane	ND	0.41	3.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Dibromochloromethane	ND	0.28	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Dibromomethane	ND	0.31	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM **Client Sample ID:** OW 25+70
Project: Bloomfield Full Terminal **Collection Date:** 4/13/2022 12:16:00 PM
Lab ID: 2204664-009 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
2-Hexanone	ND	1.8	10		µg/L	1	4/21/2022 10:42:00 AM	B87371
Isopropylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	4/21/2022 10:42:00 AM	B87371
Methylene Chloride	ND	0.50	3.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
n-Butylbenzene	ND	0.25	3.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
n-Propylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Styrene	ND	0.14	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Vinyl chloride	ND	0.32	1.0		µg/L	1	4/21/2022 10:42:00 AM	B87371
Xylenes, Total	ND	0.37	1.5		µg/L	1	4/21/2022 10:42:00 AM	B87371
Surr: 1,2-Dichloroethane-d4	95.9	0	70-130		%Rec	1	4/21/2022 10:42:00 AM	B87371
Surr: 4-Bromofluorobenzene	101	0	70-130		%Rec	1	4/21/2022 10:42:00 AM	B87371
Surr: Dibromofluoromethane	99.3	0	70-130		%Rec	1	4/21/2022 10:42:00 AM	B87371
Surr: Toluene-d8	96.3	0	70-130		%Rec	1	4/21/2022 10:42:00 AM	B87371
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: OW 25+70
Project: Bloomfield Full Terminal
Collection Date: 4/13/2022 12:16:00 PM
Lab ID: 2204664-009
Matrix: AQUEOUS
Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	1370	40.0	40.0	*D	mg/L	1	4/21/2022 12:14:00 PM	66920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM **Client Sample ID:** CW 25+95
Project: Bloomfield Full Terminal **Collection Date:** 4/13/2022 12:55:00 PM
Lab ID: 2204664-010 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	0.071	0.016	0.064		mg/L	1	4/26/2022 10:51:26 PM	66892
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	4/26/2022 10:51:26 PM	66892
Surr: DNOP	116	0	42.2-138		%Rec	1	4/26/2022 10:51:26 PM	66892
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Toluene	ND	0.20	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Ethylbenzene	ND	0.21	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Methyl tert-butyl ether (MTBE)	0.41	0.39	1.0	J	µg/L	1	4/21/2022 11:05:00 AM	B87371
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Naphthalene	ND	0.50	2.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Acetone	8.5	2.5	10	J	µg/L	1	4/21/2022 11:05:00 AM	B87371
Bromobenzene	ND	0.28	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Bromodichloromethane	ND	0.20	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Bromoform	ND	0.31	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Bromomethane	ND	0.85	3.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
2-Butanone	ND	2.0	10		µg/L	1	4/21/2022 11:05:00 AM	B87371
Carbon disulfide	ND	0.59	10		µg/L	1	4/21/2022 11:05:00 AM	B87371
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Chlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Chloroethane	ND	0.38	2.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Chloroform	ND	0.13	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Chloromethane	ND	0.41	3.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Dibromochloromethane	ND	0.28	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Dibromomethane	ND	0.31	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM **Client Sample ID:** CW 25+95
Project: Bloomfield Full Terminal **Collection Date:** 4/13/2022 12:55:00 PM
Lab ID: 2204664-010 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
2-Hexanone	ND	1.8	10		µg/L	1	4/21/2022 11:05:00 AM	B87371
Isopropylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	4/21/2022 11:05:00 AM	B87371
Methylene Chloride	ND	0.50	3.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
n-Butylbenzene	ND	0.25	3.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
n-Propylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Styrene	ND	0.14	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Vinyl chloride	ND	0.32	1.0		µg/L	1	4/21/2022 11:05:00 AM	B87371
Xylenes, Total	ND	0.37	1.5		µg/L	1	4/21/2022 11:05:00 AM	B87371
Surr: 1,2-Dichloroethane-d4	96.0	0	70-130		%Rec	1	4/21/2022 11:05:00 AM	B87371
Surr: 4-Bromofluorobenzene	102	0	70-130		%Rec	1	4/21/2022 11:05:00 AM	B87371
Surr: Dibromofluoromethane	99.9	0	70-130		%Rec	1	4/21/2022 11:05:00 AM	B87371
Surr: Toluene-d8	96.8	0	70-130		%Rec	1	4/21/2022 11:05:00 AM	B87371
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	2010	40.0	40.0	*D	mg/L	1	4/21/2022 12:14:00 PM	66920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM **Client Sample ID:** OW 22+00
Project: Bloomfield Full Terminal **Collection Date:** 4/13/2022 1:16:00 PM
Lab ID: 2204664-011 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	0.10	0.016	0.064		mg/L	1	4/26/2022 11:38:42 PM	66939
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	4/26/2022 11:38:42 PM	66939
Surr: DNOP	83.9	0	42.2-138		%Rec	1	4/26/2022 11:38:42 PM	66939
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	4/16/2022 7:36:00 PM	A87296
Surr: BFB	96.2	0	70-130		%Rec	1	4/16/2022 7:36:00 PM	A87296
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Toluene	ND	0.20	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Ethylbenzene	ND	0.21	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Naphthalene	ND	0.50	2.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Acetone	ND	2.5	10		µg/L	1	4/21/2022 11:28:00 AM	B87371
Bromobenzene	ND	0.28	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Bromodichloromethane	ND	0.20	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Bromoform	ND	0.31	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Bromomethane	ND	0.85	3.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
2-Butanone	ND	2.0	10		µg/L	1	4/21/2022 11:28:00 AM	B87371
Carbon disulfide	ND	0.59	10		µg/L	1	4/21/2022 11:28:00 AM	B87371
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Chlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Chloroethane	ND	0.38	2.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Chloroform	ND	0.13	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Chloromethane	ND	0.41	3.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Dibromochloromethane	ND	0.28	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Dibromomethane	ND	0.31	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM **Client Sample ID:** OW 22+00
Project: Bloomfield Full Terminal **Collection Date:** 4/13/2022 1:16:00 PM
Lab ID: 2204664-011 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
2-Hexanone	ND	1.8	10		µg/L	1	4/21/2022 11:28:00 AM	B87371
Isopropylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	4/21/2022 11:28:00 AM	B87371
Methylene Chloride	ND	0.50	3.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
n-Butylbenzene	ND	0.25	3.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
n-Propylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Styrene	ND	0.14	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Vinyl chloride	ND	0.32	1.0		µg/L	1	4/21/2022 11:28:00 AM	B87371
Xylenes, Total	ND	0.37	1.5		µg/L	1	4/21/2022 11:28:00 AM	B87371
Surr: 1,2-Dichloroethane-d4	100	0	70-130		%Rec	1	4/21/2022 11:28:00 AM	B87371
Surr: 4-Bromofluorobenzene	95.6	0	70-130		%Rec	1	4/21/2022 11:28:00 AM	B87371
Surr: Dibromofluoromethane	101	0	70-130		%Rec	1	4/21/2022 11:28:00 AM	B87371
Surr: Toluene-d8	91.5	0	70-130		%Rec	1	4/21/2022 11:28:00 AM	B87371
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: OW 22+00
Project: Bloomfield Full Terminal
Collection Date: 4/13/2022 1:16:00 PM
Lab ID: 2204664-011
Matrix: AQUEOUS
Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	825	100	100	*D	mg/L	1	4/21/2022 12:14:00 PM	66920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: OW 22+00-FD
Project: Bloomfield Full Terminal
Collection Date: 4/13/2022 1:16:00 PM
Lab ID: 2204664-012
Matrix: AQUEOUS
Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	0.072	0.016	0.064		mg/L	1	4/27/2022 12:02:18 AM	66939
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	4/27/2022 12:02:18 AM	66939
Surr: DNOP	63.1	0	42.2-138		%Rec	1	4/27/2022 12:02:18 AM	66939
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	4/16/2022 7:56:00 PM	A87296
Surr: BFB	101	0	70-130		%Rec	1	4/16/2022 7:56:00 PM	A87296
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Toluene	ND	0.20	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Ethylbenzene	ND	0.21	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Naphthalene	ND	0.50	2.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Acetone	ND	2.5	10		µg/L	1	4/21/2022 11:51:00 AM	B87371
Bromobenzene	ND	0.28	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Bromodichloromethane	ND	0.20	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Bromoform	ND	0.31	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Bromomethane	ND	0.85	3.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
2-Butanone	ND	2.0	10		µg/L	1	4/21/2022 11:51:00 AM	B87371
Carbon disulfide	ND	0.59	10		µg/L	1	4/21/2022 11:51:00 AM	B87371
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Chlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Chloroethane	ND	0.38	2.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Chloroform	ND	0.13	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Chloromethane	ND	0.41	3.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Dibromochloromethane	ND	0.28	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Dibromomethane	ND	0.31	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM **Client Sample ID:** OW 22+00-FD
Project: Bloomfield Full Terminal **Collection Date:** 4/13/2022 1:16:00 PM
Lab ID: 2204664-012 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
2-Hexanone	ND	1.8	10		µg/L	1	4/21/2022 11:51:00 AM	B87371
Isopropylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	4/21/2022 11:51:00 AM	B87371
Methylene Chloride	ND	0.50	3.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
n-Butylbenzene	ND	0.25	3.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
n-Propylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Styrene	ND	0.14	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Vinyl chloride	ND	0.32	1.0		µg/L	1	4/21/2022 11:51:00 AM	B87371
Xylenes, Total	ND	0.37	1.5		µg/L	1	4/21/2022 11:51:00 AM	B87371
Surr: 1,2-Dichloroethane-d4	97.6	0	70-130		%Rec	1	4/21/2022 11:51:00 AM	B87371
Surr: 4-Bromofluorobenzene	98.2	0	70-130		%Rec	1	4/21/2022 11:51:00 AM	B87371
Surr: Dibromofluoromethane	103	0	70-130		%Rec	1	4/21/2022 11:51:00 AM	B87371
Surr: Toluene-d8	92.6	0	70-130		%Rec	1	4/21/2022 11:51:00 AM	B87371
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: OW 22+00-FD
Project: Bloomfield Full Terminal
Collection Date: 4/13/2022 1:16:00 PM
Lab ID: 2204664-012
Matrix: AQUEOUS
Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	760	100	100	*D	mg/L	1	4/21/2022 12:14:00 PM	66920

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM **Client Sample ID:** Trip Blank
Project: Bloomfield Full Terminal **Collection Date:** 4/13/2022
Lab ID: 2204664-013 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Toluene	ND	0.20	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Ethylbenzene	ND	0.21	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Naphthalene	ND	0.50	2.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Acetone	ND	2.5	10		µg/L	1	4/21/2022 12:14:00 PM	B87371
Bromobenzene	ND	0.28	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Bromodichloromethane	ND	0.20	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Bromoform	ND	0.31	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Bromomethane	ND	0.85	3.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
2-Butanone	ND	2.0	10		µg/L	1	4/21/2022 12:14:00 PM	B87371
Carbon disulfide	ND	0.59	10		µg/L	1	4/21/2022 12:14:00 PM	B87371
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Chlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Chloroethane	ND	0.38	2.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Chloroform	ND	0.13	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Chloromethane	ND	0.41	3.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Dibromochloromethane	ND	0.28	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Dibromomethane	ND	0.31	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	4/21/2022 12:14:00 PM	B87371

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204664**
Date Reported: **4/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: Trip Blank
Project: Bloomfield Full Terminal
Collection Date: 4/13/2022
Lab ID: 2204664-013
Matrix: AQUEOUS
Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
2-Hexanone	ND	1.8	10		µg/L	1	4/21/2022 12:14:00 PM	B87371
Isopropylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	4/21/2022 12:14:00 PM	B87371
Methylene Chloride	ND	0.50	3.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
n-Butylbenzene	ND	0.25	3.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
n-Propylbenzene	ND	0.18	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Styrene	ND	0.14	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Vinyl chloride	ND	0.32	1.0		µg/L	1	4/21/2022 12:14:00 PM	B87371
Xylenes, Total	ND	0.37	1.5		µg/L	1	4/21/2022 12:14:00 PM	B87371
Surr: 1,2-Dichloroethane-d4	96.4	0	70-130		%Rec	1	4/21/2022 12:14:00 PM	B87371
Surr: 4-Bromofluorobenzene	95.6	0	70-130		%Rec	1	4/21/2022 12:14:00 PM	B87371
Surr: Dibromofluoromethane	101	0	70-130		%Rec	1	4/21/2022 12:14:00 PM	B87371
Surr: Toluene-d8	93.7	0	70-130		%Rec	1	4/21/2022 12:14:00 PM	B87371

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2204664**
29-Apr-22

Client: AECOM
Project: Bloomfield Full Terminal

Sample ID: **MB-66892**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Diesel Range**							
Client ID: **PBW**	Batch ID: **66892**	RunNo: **87530**							
Prep Date: **4/15/2022**	Analysis Date: **4/26/2022**	SeqNo: **3098448**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.034	0.064								J
Motor Oil Range Organics (MRO)	ND	0.080								
Surr: DNOP	0.035		0.03750		92.1	42.2	138			

Sample ID: **MB-66939**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Diesel Range**							
Client ID: **PBW**	Batch ID: **66939**	RunNo: **87530**							
Prep Date: **4/20/2022**	Analysis Date: **4/26/2022**	SeqNo: **3098449**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.045	0.064								J
Motor Oil Range Organics (MRO)	ND	0.080								
Surr: DNOP	0.036		0.03750		97.0	42.2	138			

Sample ID: **LCS-66939**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Diesel Range**							
Client ID: **LCSW**	Batch ID: **66939**	RunNo: **87530**							
Prep Date: **4/20/2022**	Analysis Date: **4/26/2022**	SeqNo: **3098450**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.14	0.064	0.1875	0	75.8	31.7	75.4			S
Surr: DNOP	0.016		0.01875		87.8	42.2	138			

Sample ID: **LCS-66892**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Diesel Range**							
Client ID: **LCSW**	Batch ID: **66892**	RunNo: **87530**							
Prep Date: **4/15/2022**	Analysis Date: **4/26/2022**	SeqNo: **3098451**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.14	0.064	0.1875	0	74.4	31.7	75.4			
Surr: DNOP	0.018		0.01875		97.5	42.2	138			

Sample ID: **LCSD-66939**	SampType: **LCSD**	TestCode: **EPA Method 8015D Mod: Diesel Range**							
Client ID: **LCSS02**	Batch ID: **66939**	RunNo: **87530**							
Prep Date: **4/20/2022**	Analysis Date: **4/26/2022**	SeqNo: **3098452**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.12	0.064	0.1875	0	65.9	31.7	75.4	14.0	20	
Surr: DNOP	0.017		0.01875		89.0	42.2	138	0	0	

Qualifiers:

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D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2204664**
29-Apr-22

Client: AECOM
Project: Bloomfield Full Terminal

Sample ID: **LCSD-66892** SampType: **LCSD** TestCode: **EPA Method 8015D Mod: Diesel Range**
Client ID: **LCSS02** Batch ID: **66892** RunNo: **87530**
Prep Date: **4/15/2022** Analysis Date: **4/26/2022** SeqNo: **3098453** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.14	0.064	0.1875	0	75.8	31.7	75.4	1.81	20	S
Surr: DNOP	0.018		0.01875		97.1	42.2	138	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204664**

29-Apr-22

Client: AECOM

Project: Bloomfield Full Terminal

Sample ID: **2.5UG GRO LCS** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSW** Batch ID: **A87296** RunNo: **87296**

Prep Date: Analysis Date: **4/16/2022** SeqNo: **3086969** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.58	0.050	0.5000	0	116	80	120			
Surr: BFB	45		20.00		225	70	130			S

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBW** Batch ID: **A87296** RunNo: **87296**

Prep Date: Analysis Date: **4/16/2022** SeqNo: **3086970** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	22		20.00		108	70	130			

Sample ID: **2204664-001bms** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **MW-12** Batch ID: **A87296** RunNo: **87296**

Prep Date: Analysis Date: **4/16/2022** SeqNo: **3089184** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.56	0.050	0.5000	0	112	70	130			
Surr: BFB	45		20.00		225	70	130			S

Sample ID: **2204664-001bmsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **MW-12** Batch ID: **A87296** RunNo: **87296**

Prep Date: Analysis Date: **4/16/2022** SeqNo: **3089185** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.59	0.050	0.5000	0	118	70	130	5.47	20	
Surr: BFB	46		20.00		232	70	130	0	0	S

Qualifiers:

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D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2204664**
29-Apr-22

Client: AECOM
Project: Bloomfield Full Terminal

Sample ID: **100ng lcs 2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **B87371**	RunNo: **87371**
Prep Date:	Analysis Date: **4/21/2022**	SeqNo: **3092140** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.8	70	130			
Toluene	20	1.0	20.00	0	100	70	130			
Chlorobenzene	21	1.0	20.00	0	103	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	99.6	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	94.7	70	130			
Surr: 1,2-Dichloroethane-d4	8.9		10.00		89.3	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.8	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.7	70	130			
Surr: Toluene-d8	9.5		10.00		95.4	70	130			

Sample ID: **mb 2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **B87371**	RunNo: **87371**
Prep Date:	Analysis Date: **4/21/2022**	SeqNo: **3092141** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

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PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2204664**
29-Apr-22

Client: AECOM
Project: Bloomfield Full Terminal

Sample ID: **mb 2** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **B87371** RunNo: **87371**
Prep Date: Analysis Date: **4/21/2022** SeqNo: **3092141** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

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S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2204664**
29-Apr-22

Client: AECOM
Project: Bloomfield Full Terminal

Sample ID: **mb 2** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **B87371** RunNo: **87371**
Prep Date: Analysis Date: **4/21/2022** SeqNo: **3092141** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
tert-Butyl alcohol	ND	25								
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.1	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.7	70	130			
Surr: Dibromofluoromethane	10		10.00		99.6	70	130			
Surr: Toluene-d8	9.4		10.00		93.8	70	130			

Sample ID: **2204664-005ams** SampType: **MS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-13** Batch ID: **B87371** RunNo: **87371**
Prep Date: Analysis Date: **4/21/2022** SeqNo: **3092179** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	107	70	130			
Toluene	20	1.0	20.00	0	102	70	130			
Chlorobenzene	21	1.0	20.00	0	103	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	103	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	104	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.4	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.9	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.5		10.00		94.6	70	130			

Sample ID: **2204664-005amsd** SampType: **MSD** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-13** Batch ID: **B87371** RunNo: **87371**
Prep Date: Analysis Date: **4/21/2022** SeqNo: **3092180** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	70	130	3.89	20	
Toluene	20	1.0	20.00	0	97.6	70	130	4.32	20	
Chlorobenzene	20	1.0	20.00	0	99.8	70	130	3.11	20	
1,1-Dichloroethene	20	1.0	20.00	0	98.8	70	130	4.18	20	
Trichloroethene (TCE)	20	1.0	20.00	0	98.7	70	130	4.76	20	
Surr: 1,2-Dichloroethane-d4	9.8		10.00		97.9	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130	0	0	
Surr: Dibromofluoromethane	10		10.00		102	70	130	0	0	
Surr: Toluene-d8	9.4		10.00		93.6	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2204664**
29-Apr-22

Client: AECOM
Project: Bloomfield Full Terminal

Sample ID: **MB-66920** SampType: **MBLK** TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW** Batch ID: **66920** RunNo: **87402**
Prep Date: **4/19/2022** Analysis Date: **4/21/2022** SeqNo: **3091885** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: **LCS-66920** SampType: **LCS** TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW** Batch ID: **66920** RunNo: **87402**
Prep Date: **4/19/2022** Analysis Date: **4/21/2022** SeqNo: **3091886** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1000	20.0	1000	0	100	80	120			

Sample ID: **2204664-005BDUP** SampType: **DUP** TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **MW-13** Batch ID: **66920** RunNo: **87402**
Prep Date: **4/19/2022** Analysis Date: **4/21/2022** SeqNo: **3091900** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	2040	20.0						0.196	10	*

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: AECOM Work Order Number: 2204664 RcptNo: 1

Received By: Tracy Casarrubias 4/14/2022 8:00:00 AM

Completed By: Tracy Casarrubias 4/14/2022 11:18:25 AM

Reviewed By: KPG 4/15/22

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Samples not Frozen
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: JM 4/15/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good	Yes			
2	0.3	Good	Yes			
3	-0.3	Good	Yes			
4	2.1	Good	Yes			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: AECOM Work Order Number: 2204664 RcptNo: 1

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
5	2.6	Good	Yes			

Released to Imaging: 11/21/2023 10:35:22 AM
Received by OCD: 5/15/2023 3:52:10 PM

Chain-of-Custody Record

Client: AECOM

Mailing Address: 6501 Americas Pkwy NE, #900, Albuquerque, NM 87110

Phone #: 505-855-7600

email or Fax#: ~~dale.flo~~ edward.hubbert@aecom.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Bloomfield Full Terminal

Project #: Eddie Hubbert 142937

Project Manager:

Sampler: Katie Humphrey

On Ice: ☒ Yes ☐ No

# of Coolers: 5

Cooler Temp(including CF): See Remark (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2204664	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	TDS	8015 DRO only				
4/12/22	1345	GW	MW-12	7	HCl	001		X						X			X						
4/12/22	1451	GW	MW-37	7	HCl	002		X						X			X						
4/12/22	1520	GW	MW-33	7	HCl	003		X						X			X						
4/13/22	0925	GW	CW 0+60	6	HCl	004								X			X	X					
4/13/22	1006	GW	MW-13	4	HCl	005								X			X						
4/13/22	1035	GW	MW-52	4	HCl	006								X			X						
4/13/22	1035	GW	MW-52-FB	3	HCl	007								X									
4/13/22	1130	GW	MW-1	7	HCl	008		X						X			X						
4/13/22	1216	GW	CW 25+70	7	HCl	009		X						X			X						
4/13/22	1255	GW	CW 25+95	6	HCl	010								X			X	X					
4/13/22	1316	GW	CW 22+00	7	HCl	011		X						X			X						
4/13/22	1216	GW	CW 22+00-FD	7	HCl	012		X						X			X						

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
4/13/22	1533			Walk	4/13/22	1533
4/13/22	1824			Courier	4/14/22	8:00

Remarks: MS/MSD extra volume MW-13

0.6 0.6
0.3 0.3
-0.3 -0.3
2.1 2.1
2.6 2.6

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 11/21/2023 10:35:22 AM

Received by OCD: 5/15/2023 3:52:10 PM

Chain-of-Custody Record

Client: AECOM

Mailing Address: 6501 Americas Pkwy NE, #900, Albuquerque, NM, 87110

Phone #: 505-855-7500

email or Fax#: edward.hubbert@aecom.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Bloomfield Full Terminal

Project #: 142937

Project Manager: Edde Hubbert

Sampler: K.H.

On Ice: ☑ Yes ☐ No

# of Coolers: 5

Cooler Temp(including CF): See Remark (°C)

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Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2204664	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
4/13/22		TB	Trip Blank	2	HCL	013								X		

Relinquished by:	Date	Time	Received by:	Via:	Date	Time
	4/13/22	1533			4/13/22	1533
	4/13/22	1824			4/14/22	8:00

Remarks: Trip blank in cooler with TDS +

0.6 0.3 0.3 2.1 2.6 — 0.6 0.3 DA 6.3 4.1 2.6

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 12, 2022

Eddie Hubbert

AECOM
6501 Americas Parkway NE Suite 900
Albuquerque, NM 87110
TEL: (505) 855-7500
FAX: (505) 855-7555

RE: MPC Full Terminal OrderNo.: 2208155

Dear Eddie Hubbert:

Hall Environmental Analysis Laboratory received 11 sample(s) on 8/3/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **2208155**
Date: **9/12/2022**

CLIENT: AECOM
Project: MPC Full Terminal

Analytical Notes Regarding EPA Method 8015 DRO/MRO:
The LCS/LCSD had elevated recoveries. "S" flags denote that the surrogate/spike was outside of the standard limits.

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-76
Project: MPC Full Terminal
Collection Date: 8/1/2022 11:35:00 AM
Lab ID: 2208155-001A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	0.74	0.0090	0.050		mg/L	1	8/4/2022 1:19:22 PM	A90015
Surr: BFB	640	0	70-130	S	%Rec	1	8/4/2022 1:19:22 PM	A90015
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	5.9	0.45	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Toluene	ND	0.40	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Ethylbenzene	4.7	0.43	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Methyl tert-butyl ether (MTBE)	27	0.79	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
1,2,4-Trimethylbenzene	0.27	0.24	2.0	J	µg/L	2	8/4/2022 12:36:00 PM	R90019
1,3,5-Trimethylbenzene	ND	0.36	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
1,2-Dichloroethane (EDC)	ND	0.51	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
1,2-Dibromoethane (EDB)	ND	0.61	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Naphthalene	170	10	40		µg/L	20	8/4/2022 12:13:00 PM	R90019
1-Methylnaphthalene	110	1.7	8.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
2-Methylnaphthalene	160	1.4	8.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Acetone	9.4	5.0	20	J	µg/L	2	8/4/2022 12:36:00 PM	R90019
Bromobenzene	ND	0.57	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Bromodichloromethane	ND	0.41	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Bromoform	ND	0.63	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Bromomethane	ND	1.7	6.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
2-Butanone	ND	4.1	20		µg/L	2	8/4/2022 12:36:00 PM	R90019
Carbon disulfide	ND	1.2	20		µg/L	2	8/4/2022 12:36:00 PM	R90019
Carbon Tetrachloride	ND	0.35	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Chlorobenzene	ND	0.31	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Chloroethane	ND	0.75	4.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Chloroform	ND	0.27	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Chloromethane	ND	0.82	6.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
2-Chlorotoluene	ND	0.26	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
4-Chlorotoluene	ND	0.68	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
cis-1,2-DCE	ND	0.78	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
cis-1,3-Dichloropropene	ND	0.72	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
1,2-Dibromo-3-chloropropane	ND	1.2	4.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Dibromochloromethane	ND	0.57	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Dibromomethane	ND	0.62	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
1,2-Dichlorobenzene	ND	0.31	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
1,3-Dichlorobenzene	ND	0.32	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
1,4-Dichlorobenzene	ND	0.42	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Dichlorodifluoromethane	ND	0.79	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
1,1-Dichloroethane	ND	0.55	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
1,1-Dichloroethene	ND	0.40	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
1,2-Dichloropropane	ND	0.40	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-76
Project: MPC Full Terminal
Collection Date: 8/1/2022 11:35:00 AM
Lab ID: 2208155-001A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.36	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
2,2-Dichloropropane	ND	0.52	4.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
1,1-Dichloropropene	ND	0.36	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Hexachlorobutadiene	ND	1.1	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
2-Hexanone	ND	3.6	20		µg/L	2	8/4/2022 12:36:00 PM	R90019
Isopropylbenzene	50	0.37	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
4-Isopropyltoluene	ND	0.40	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
4-Methyl-2-pentanone	ND	1.8	20		µg/L	2	8/4/2022 12:36:00 PM	R90019
Methylene Chloride	ND	1.0	6.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
n-Butylbenzene	1.6	0.51	6.0	J	µg/L	2	8/4/2022 12:36:00 PM	R90019
n-Propylbenzene	57	0.36	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
sec-Butylbenzene	7.7	0.29	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Styrene	ND	0.27	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
tert-Butylbenzene	1.1	0.49	2.0	J	µg/L	2	8/4/2022 12:36:00 PM	R90019
1,1,1,2-Tetrachloroethane	ND	0.53	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
1,1,2,2-Tetrachloroethane	ND	0.55	4.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Tetrachloroethene (PCE)	ND	0.71	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
trans-1,2-DCE	ND	0.39	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
trans-1,3-Dichloropropene	ND	0.68	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
1,2,3-Trichlorobenzene	ND	0.50	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
1,2,4-Trichlorobenzene	ND	0.48	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
1,1,1-Trichloroethane	ND	0.60	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
1,1,2-Trichloroethane	ND	0.40	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Trichloroethene (TCE)	ND	0.41	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Trichlorofluoromethane	ND	0.32	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
1,2,3-Trichloropropane	ND	0.88	4.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Vinyl chloride	ND	0.64	2.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Xylenes, Total	ND	0.74	3.0		µg/L	2	8/4/2022 12:36:00 PM	R90019
Surr: 1,2-Dichloroethane-d4	103	0	70-130		%Rec	2	8/4/2022 12:36:00 PM	R90019
Surr: 4-Bromofluorobenzene	103	0	70-130		%Rec	2	8/4/2022 12:36:00 PM	R90019
Surr: Dibromofluoromethane	98.5	0	70-130		%Rec	2	8/4/2022 12:36:00 PM	R90019
Surr: Toluene-d8	104	0	70-130		%Rec	2	8/4/2022 12:36:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-76
Project: MPC Full Terminal
Collection Date: 8/1/2022 11:35:00 AM
Lab ID: 2208155-001B
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	2.9	0.016	0.064		mg/L	1	8/16/2022 10:26:18 AM	69247
Motor Oil Range Organics (MRO)	0.066	0.052	0.080	J	mg/L	1	8/16/2022 10:26:18 AM	69247
Surr: DNOP	126	0	42.2-138		%Rec	1	8/16/2022 10:26:18 AM	69247
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	5.7	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Acenaphthylene	ND	5.8	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Aniline	ND	6.2	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Anthracene	ND	6.3	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Azobenzene	ND	7.4	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Benz(a)anthracene	ND	4.7	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
Benzo(a)pyrene	ND	5.8	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Benzo(b)fluoranthene	ND	5.0	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Benzo(g,h,i)perylene	ND	4.2	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
Benzo(k)fluoranthene	ND	6.2	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Benzoic acid	ND	18	20		µg/L	1	8/17/2022 2:07:52 PM	69277
Benzyl alcohol	ND	4.3	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
Bis(2-chloroethoxy)methane	ND	5.7	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Bis(2-chloroethyl)ether	ND	6.2	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Bis(2-chloroisopropyl)ether	ND	4.9	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
Bis(2-ethylhexyl)phthalate	ND	8.4	10		µg/L	1	8/17/2022 2:07:52 PM	69277
4-Bromophenyl phenyl ether	ND	7.9	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Butyl benzyl phthalate	ND	8.3	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Carbazole	11	6.2	10		µg/L	1	8/17/2022 2:07:52 PM	69277
4-Chloro-3-methylphenol	ND	4.4	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
4-Chloroaniline	ND	4.5	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
2-Chloronaphthalene	ND	5.9	10		µg/L	1	8/17/2022 2:07:52 PM	69277
2-Chlorophenol	ND	4.7	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
4-Chlorophenyl phenyl ether	ND	6.1	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Chrysene	ND	5.3	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Di-n-butyl phthalate	ND	7.7	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Di-n-octyl phthalate	ND	12	20		µg/L	1	8/17/2022 2:07:52 PM	69277
Dibenz(a,h)anthracene	ND	5.1	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Dibenzofuran	ND	6.2	10		µg/L	1	8/17/2022 2:07:52 PM	69277
1,2-Dichlorobenzene	ND	3.3	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
1,3-Dichlorobenzene	ND	3.3	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
1,4-Dichlorobenzene	ND	2.4	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
3,3´-Dichlorobenzidine	ND	6.6	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Diethyl phthalate	ND	6.0	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Dimethyl phthalate	ND	6.0	10		µg/L	1	8/17/2022 2:07:52 PM	69277
2,4-Dichlorophenol	ND	4.1	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-76
Project: MPC Full Terminal
Collection Date: 8/1/2022 11:35:00 AM
Lab ID: 2208155-001B
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
2,4-Dimethylphenol	ND	5.8	10		µg/L	1	8/17/2022 2:07:52 PM	69277
4,6-Dinitro-2-methylphenol	ND	6.8	10		µg/L	1	8/17/2022 2:07:52 PM	69277
2,4-Dinitrophenol	ND	16	20		µg/L	1	8/17/2022 2:07:52 PM	69277
2,4-Dinitrotoluene	ND	4.9	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
2,6-Dinitrotoluene	ND	7.2	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Fluoranthene	ND	7.3	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Fluorene	ND	6.5	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Hexachlorobenzene	ND	19	20		µg/L	1	8/17/2022 2:07:52 PM	69277
Hexachlorobutadiene	ND	17	20		µg/L	1	8/17/2022 2:07:52 PM	69277
Hexachlorocyclopentadiene	ND	18	20		µg/L	1	8/17/2022 2:07:52 PM	69277
Hexachloroethane	ND	14	20		µg/L	1	8/17/2022 2:07:52 PM	69277
Indeno(1,2,3-cd)pyrene	ND	5.8	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Isophorone	ND	4.3	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
1-Methylnaphthalene	49	4.3	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
2-Methylnaphthalene	67	4.2	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
2-Methylphenol	ND	5.0	10		µg/L	1	8/17/2022 2:07:52 PM	69277
3+4-Methylphenol	ND	5.1	10		µg/L	1	8/17/2022 2:07:52 PM	69277
N-Nitrosodi-n-propylamine	ND	4.6	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
N-Nitrosodimethylamine	ND	3.9	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
N-Nitrosodiphenylamine	ND	7.3	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Naphthalene	91	3.2	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
2-Nitroaniline	ND	5.3	10		µg/L	1	8/17/2022 2:07:52 PM	69277
3-Nitroaniline	ND	5.7	10		µg/L	1	8/17/2022 2:07:52 PM	69277
4-Nitroaniline	ND	4.4	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
Nitrobenzene	ND	4.9	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
2-Nitrophenol	ND	5.2	10		µg/L	1	8/17/2022 2:07:52 PM	69277
4-Nitrophenol	ND	3.3	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Pentachlorophenol	ND	27	40		µg/L	1	8/17/2022 2:07:52 PM	69277
Phenanthrene	ND	8.3	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Phenol	ND	18	20		µg/L	1	8/17/2022 2:07:52 PM	69277
Pyrene	ND	7.1	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Pyridine	ND	14	40		µg/L	1	8/17/2022 2:07:52 PM	69277
1,2,4-Trichlorobenzene	ND	4.4	5.0		µg/L	1	8/17/2022 2:07:52 PM	69277
2,4,5-Trichlorophenol	ND	6.3	10		µg/L	1	8/17/2022 2:07:52 PM	69277
2,4,6-Trichlorophenol	ND	5.9	10		µg/L	1	8/17/2022 2:07:52 PM	69277
Surr: 2-Fluorophenol	43.3	0	15-84.5		%Rec	1	8/17/2022 2:07:52 PM	69277
Surr: Phenol-d5	34.7	0	15-67		%Rec	1	8/17/2022 2:07:52 PM	69277
Surr: 2,4,6-Tribromophenol	67.5	0	15-108		%Rec	1	8/17/2022 2:07:52 PM	69277
Surr: Nitrobenzene-d5	57.7	0	16.8-112		%Rec	1	8/17/2022 2:07:52 PM	69277
Surr: 2-Fluorobiphenyl	58.5	0	15-101		%Rec	1	8/17/2022 2:07:52 PM	69277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-001B

Client Sample ID: MW-76
Collection Date: 8/1/2022 11:35:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 4-Terphenyl-d14	78.5	0	34.4-134		%Rec	1	8/17/2022 2:07:52 PM	69277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-76
Project: MPC Full Terminal
Collection Date: 8/1/2022 11:35:00 AM
Lab ID: 2208155-001C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.48	0.23	0.50	J	mg/L	5	8/3/2022 7:58:14 PM	R90013
Chloride	28	1.2	2.5		mg/L	5	8/3/2022 7:58:14 PM	R90013
Bromide	0.65	0.25	0.50		mg/L	5	8/3/2022 7:58:14 PM	R90013
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5	H	mg/L	5	8/3/2022 7:58:14 PM	R90013
Sulfate	ND	1.2	2.5		mg/L	5	8/3/2022 7:58:14 PM	R90013
Nitrate+Nitrite as N	0.14	0.11	1.0	JH	mg/L	5	8/29/2022 11:25:06 PM	R90649
CARBON DIOXIDE							Analyst: **JTT**	
Total Carbon Dioxide	850	0	1.0	H	mg CO2/	1	8/23/2022 1:14:00 AM	R90490
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	901.6	20.00	20.00		mg/L Ca	1	8/8/2022 2:46:23 PM	R90100
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/8/2022 2:46:23 PM	R90100
Total Alkalinity (as CaCO3)	901.6	20.00	20.00		mg/L Ca	1	8/8/2022 2:46:23 PM	R90100
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	1070	100	100	*D	mg/L	1	8/8/2022 8:10:00 AM	69283

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-001D

Client Sample ID: MW-76
Collection Date: 8/1/2022 11:35:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	3.3	0.0079	0.015	*	mg/L	5	8/9/2022 11:36:35 AM	69312
Cadmium	ND	0.0018	0.0020		mg/L	1	8/9/2022 11:32:19 AM	69312
Chromium	ND	0.0020	0.0060		mg/L	1	8/9/2022 11:32:19 AM	69312
Silver	ND	0.0018	0.0050		mg/L	1	8/9/2022 11:32:19 AM	69312
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0027	0.00013	0.0010		mg/L	1	8/11/2022 1:40:18 PM	69312
Lead	0.00047	0.00031	0.0025	J	mg/L	5	8/11/2022 3:45:33 PM	69312
Selenium	0.00051	0.00037	0.0010	J	mg/L	1	8/11/2022 1:40:18 PM	69312
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 12:28:00 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-76
Project: MPC Full Terminal
Collection Date: 8/1/2022 11:35:00 AM
Lab ID: 2208155-001E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	3.0	0.0056	0.010	*	mg/L	5	8/23/2022 12:01:00 PM	A90525
Cadmium	ND	0.00098	0.0020		mg/L	1	8/23/2022 11:59:06 AM	A90525
Calcium	65	0.11	1.0		mg/L	1	8/23/2022 11:59:06 AM	A90525
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 11:59:06 AM	A90525
Iron	8.0	0.10	0.20	*	mg/L	10	8/25/2022 3:41:49 PM	A90598
Magnesium	49	0.067	1.0		mg/L	1	8/23/2022 11:59:06 AM	A90525
Manganese	1.5	0.0029	0.010	*	mg/L	5	8/23/2022 12:01:00 PM	A90525
Potassium	2.7	0.16	1.0		mg/L	1	8/23/2022 11:59:06 AM	A90525
Silver	ND	0.0013	0.0050		mg/L	1	8/23/2022 11:59:06 AM	A90525
Sodium	260	1.7	5.0		mg/L	5	8/23/2022 12:01:00 PM	A90525
Zinc	0.0065	0.0032	0.010	J	mg/L	1	8/23/2022 11:59:06 AM	A90525
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.0022	0.00012	0.0010		mg/L	1	8/3/2022 2:50:25 PM	B90003
Copper	0.00096	0.00037	0.0010	J	mg/L	1	8/3/2022 2:50:25 PM	B90003
Lead	0.00027	0.000057	0.00050	J	mg/L	1	8/3/2022 2:50:25 PM	B90003
Selenium	0.00041	0.00034	0.0010	J	mg/L	1	8/3/2022 2:50:25 PM	B90003
Uranium	0.00011	0.000065	0.00050	J	mg/L	1	8/3/2022 2:50:25 PM	B90003
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 12:34:23 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-44
Project: MPC Full Terminal
Collection Date: 8/1/2022 3:40:00 PM
Lab ID: 2208155-002A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/4/2022 1:43:05 PM	A90015
Surr: BFB	102	0	70-130		%Rec	1	8/4/2022 1:43:05 PM	A90015
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Toluene	ND	0.20	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Methyl tert-butyl ether (MTBE)	0.81	0.39	1.0	J	µg/L	1	8/4/2022 1:23:00 PM	R90019
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Naphthalene	ND	0.50	2.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
2-Methylnaphthalene	0.80	0.69	4.0	J	µg/L	1	8/4/2022 1:23:00 PM	R90019
Acetone	7.2	2.5	10	J	µg/L	1	8/4/2022 1:23:00 PM	R90019
Bromobenzene	ND	0.28	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Bromoform	ND	0.31	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Bromomethane	ND	0.85	3.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
2-Butanone	ND	2.0	10		µg/L	1	8/4/2022 1:23:00 PM	R90019
Carbon disulfide	ND	0.59	10		µg/L	1	8/4/2022 1:23:00 PM	R90019
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Chloroethane	ND	0.38	2.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Chloroform	ND	0.13	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Chloromethane	ND	0.41	3.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Dibromomethane	ND	0.31	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
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Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-44
Project: MPC Full Terminal
Collection Date: 8/1/2022 3:40:00 PM
Lab ID: 2208155-002A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
2-Hexanone	ND	1.8	10		µg/L	1	8/4/2022 1:23:00 PM	R90019
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/4/2022 1:23:00 PM	R90019
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Styrene	ND	0.14	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/4/2022 1:23:00 PM	R90019
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/4/2022 1:23:00 PM	R90019
Surr: 1,2-Dichloroethane-d4	110	0	70-130		%Rec	1	8/4/2022 1:23:00 PM	R90019
Surr: 4-Bromofluorobenzene	100	0	70-130		%Rec	1	8/4/2022 1:23:00 PM	R90019
Surr: Dibromofluoromethane	104	0	70-130		%Rec	1	8/4/2022 1:23:00 PM	R90019
Surr: Toluene-d8	93.3	0	70-130		%Rec	1	8/4/2022 1:23:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-002B

Client Sample ID: MW-44
Collection Date: 8/1/2022 3:40:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	0.072	0.016	0.064		mg/L	1	8/16/2022 10:50:12 AM	69247
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/16/2022 10:50:12 AM	69247
Surr: DNOP	122	0	42.2-138		%Rec	1	8/16/2022 10:50:12 AM	69247

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-44
Project: MPC Full Terminal
Collection Date: 8/1/2022 3:40:00 PM
Lab ID: 2208155-002C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	ND	0.23	0.50		mg/L	5	8/3/2022 8:49:42 PM	A90013
Chloride	55	1.2	2.5		mg/L	5	8/3/2022 8:49:42 PM	A90013
Bromide	ND	0.25	0.50		mg/L	5	8/3/2022 8:49:42 PM	A90013
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5	H	mg/L	5	8/3/2022 8:49:42 PM	A90013
Sulfate	2700	25	50	*	mg/L	100	8/23/2022 2:39:47 PM	R90519
Nitrate+Nitrite as N	0.23	0.11	1.0	JH	mg/L	5	8/30/2022 12:14:27 AM	R90649
CARBON DIOXIDE							Analyst: **JTT**	
Total Carbon Dioxide	340	0	1.0	H	mg CO2/	1	8/23/2022 1:46:00 AM	R90490
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	357.1	20.00	20.00		mg/L Ca	1	8/8/2022 3:21:50 PM	R90100
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/8/2022 3:21:50 PM	R90100
Total Alkalinity (as CaCO3)	357.1	20.00	20.00		mg/L Ca	1	8/8/2022 3:21:50 PM	R90100
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	4860	100	100	*D	mg/L	1	8/8/2022 8:10:00 AM	69283

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-002D

Client Sample ID: MW-44
Collection Date: 8/1/2022 3:40:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	0.016	0.0016	0.0030		mg/L	1	8/9/2022 11:40:53 AM	69312
Cadmium	ND	0.0018	0.0020		mg/L	1	8/9/2022 11:40:53 AM	69312
Chromium	ND	0.0020	0.0060		mg/L	1	8/9/2022 11:40:53 AM	69312
Silver	0.0023	0.0018	0.0050	J	mg/L	1	8/9/2022 11:40:53 AM	69312
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	ND	0.00063	0.0050		mg/L	5	8/17/2022 3:33:53 PM	69312
Lead	ND	0.00031	0.0025		mg/L	5	8/11/2022 3:47:59 PM	69312
Selenium	ND	0.0019	0.0050		mg/L	5	8/17/2022 3:33:53 PM	69312
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 12:36:31 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-44
Project: MPC Full Terminal
Collection Date: 8/1/2022 3:40:00 PM
Lab ID: 2208155-002E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.0092	0.0011	0.0020		mg/L	1	8/23/2022 12:02:56 PM	A90525
Cadmium	ND	0.00098	0.0020		mg/L	1	8/23/2022 12:02:56 PM	A90525
Calcium	490	0.57	5.0		mg/L	5	8/23/2022 12:04:53 PM	A90525
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 12:02:56 PM	A90525
Iron	0.96	0.010	0.020	*	mg/L	1	8/23/2022 12:02:56 PM	A90525
Magnesium	66	0.067	1.0		mg/L	1	8/23/2022 12:02:56 PM	A90525
Manganese	1.8	0.0029	0.010	*	mg/L	5	8/23/2022 12:04:53 PM	A90525
Potassium	6.7	0.16	1.0		mg/L	1	8/23/2022 12:02:56 PM	A90525
Silver	0.0083	0.0013	0.0050		mg/L	1	8/23/2022 12:02:56 PM	A90525
Sodium	950	17	50		mg/L	50	8/25/2022 3:43:49 PM	A90598
Zinc	0.0053	0.0032	0.010	J	mg/L	1	8/23/2022 12:02:56 PM	A90525
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.00092	0.00061	0.0050	J	mg/L	5	8/3/2022 4:34:16 PM	B90003
Copper	ND	0.0018	0.0050		mg/L	5	8/3/2022 4:34:16 PM	B90003
Lead	ND	0.00028	0.0025		mg/L	5	8/4/2022 1:42:03 PM	A90020
Selenium	ND	0.0017	0.0050		mg/L	5	8/3/2022 4:34:16 PM	B90003
Uranium	0.00060	0.00033	0.0025	J	mg/L	5	8/4/2022 1:42:03 PM	A90020
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 12:38:40 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-73
Project: MPC Full Terminal
Collection Date: 8/1/2022 2:20:00 PM
Lab ID: 2208155-003A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	16	0.045	0.25		mg/L	5	8/4/2022 2:06:52 PM	A90015
Surr: BFB	221	0	70-130	S	%Rec	5	8/4/2022 2:06:52 PM	A90015
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	3700	11	50		µg/L	50	8/4/2022 2:32:00 PM	R90019
Toluene	3.2	1.0	5.0	J	µg/L	5	8/4/2022 2:56:00 PM	R90019
Ethylbenzene	120	1.1	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
Methyl tert-butyl ether (MTBE)	53	2.0	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
1,2,4-Trimethylbenzene	1.1	0.61	5.0	J	µg/L	5	8/4/2022 2:56:00 PM	R90019
1,3,5-Trimethylbenzene	ND	0.91	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
1,2-Dichloroethane (EDC)	ND	1.3	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
1,2-Dibromoethane (EDB)	ND	1.5	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
Naphthalene	180	2.5	10		µg/L	5	8/4/2022 2:56:00 PM	R90019
1-Methylnaphthalene	59	4.2	20		µg/L	5	8/4/2022 2:56:00 PM	R90019
2-Methylnaphthalene	76	3.5	20		µg/L	5	8/4/2022 2:56:00 PM	R90019
Acetone	ND	13	50		µg/L	5	8/4/2022 2:56:00 PM	R90019
Bromobenzene	ND	1.4	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
Bromodichloromethane	ND	1.0	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
Bromoform	ND	1.6	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
Bromomethane	ND	4.3	15		µg/L	5	8/4/2022 2:56:00 PM	R90019
2-Butanone	ND	10	50		µg/L	5	8/4/2022 2:56:00 PM	R90019
Carbon disulfide	ND	3.0	50		µg/L	5	8/4/2022 2:56:00 PM	R90019
Carbon Tetrachloride	ND	0.88	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
Chlorobenzene	ND	0.78	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
Chloroethane	ND	1.9	10		µg/L	5	8/4/2022 2:56:00 PM	R90019
Chloroform	ND	0.67	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
Chloromethane	ND	2.1	15		µg/L	5	8/4/2022 2:56:00 PM	R90019
2-Chlorotoluene	ND	0.66	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
4-Chlorotoluene	ND	1.7	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
cis-1,2-DCE	ND	1.9	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
cis-1,3-Dichloropropene	ND	1.8	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
1,2-Dibromo-3-chloropropane	ND	2.9	10		µg/L	5	8/4/2022 2:56:00 PM	R90019
Dibromochloromethane	ND	1.4	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
Dibromomethane	ND	1.5	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
1,2-Dichlorobenzene	ND	0.77	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
1,3-Dichlorobenzene	ND	0.81	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
1,4-Dichlorobenzene	ND	1.0	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
Dichlorodifluoromethane	ND	2.0	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
1,1-Dichloroethane	ND	1.4	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
1,1-Dichloroethene	ND	1.0	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
1,2-Dichloropropane	ND	1.0	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-73
Project: MPC Full Terminal
Collection Date: 8/1/2022 2:20:00 PM
Lab ID: 2208155-003A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.90	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
2,2-Dichloropropane	ND	1.3	10		µg/L	5	8/4/2022 2:56:00 PM	R90019
1,1-Dichloropropene	ND	0.90	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
Hexachlorobutadiene	ND	2.8	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
2-Hexanone	ND	9.0	50		µg/L	5	8/4/2022 2:56:00 PM	R90019
Isopropylbenzene	53	0.91	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
4-Isopropyltoluene	ND	1.0	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
4-Methyl-2-pentanone	ND	4.4	50		µg/L	5	8/4/2022 2:56:00 PM	R90019
Methylene Chloride	ND	2.5	15		µg/L	5	8/4/2022 2:56:00 PM	R90019
n-Butylbenzene	7.7	1.3	15	J	µg/L	5	8/4/2022 2:56:00 PM	R90019
n-Propylbenzene	120	0.91	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
sec-Butylbenzene	7.9	0.72	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
Styrene	ND	0.68	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
tert-Butylbenzene	ND	1.2	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
1,1,1,2-Tetrachloroethane	ND	1.3	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
1,1,2,2-Tetrachloroethane	ND	1.4	10		µg/L	5	8/4/2022 2:56:00 PM	R90019
Tetrachloroethene (PCE)	ND	1.8	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
trans-1,2-DCE	ND	0.97	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
trans-1,3-Dichloropropene	ND	1.7	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
1,2,3-Trichlorobenzene	ND	1.2	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
1,2,4-Trichlorobenzene	ND	1.2	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
1,1,1-Trichloroethane	ND	1.5	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
1,1,2-Trichloroethane	ND	0.99	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
Trichloroethene (TCE)	ND	1.0	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
Trichlorofluoromethane	ND	0.79	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
1,2,3-Trichloropropane	ND	2.2	10		µg/L	5	8/4/2022 2:56:00 PM	R90019
Vinyl chloride	ND	1.6	5.0		µg/L	5	8/4/2022 2:56:00 PM	R90019
Xylenes, Total	6.3	1.9	7.5	J	µg/L	5	8/4/2022 2:56:00 PM	R90019
Surr: 1,2-Dichloroethane-d4	108	0	70-130		%Rec	5	8/4/2022 2:56:00 PM	R90019
Surr: 4-Bromofluorobenzene	103	0	70-130		%Rec	5	8/4/2022 2:56:00 PM	R90019
Surr: Dibromofluoromethane	99.1	0	70-130		%Rec	5	8/4/2022 2:56:00 PM	R90019
Surr: Toluene-d8	99.2	0	70-130		%Rec	5	8/4/2022 2:56:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-73
Project: MPC Full Terminal
Collection Date: 8/1/2022 2:20:00 PM
Lab ID: 2208155-003B
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	3.3	0.016	0.064		mg/L	1	8/16/2022 11:14:05 AM	69247
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/16/2022 11:14:05 AM	69247
Surr: DNOP	139	0	42.2-138	S	%Rec	1	8/16/2022 11:14:05 AM	69247
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	5.7	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Acenaphthylene	ND	5.8	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Aniline	ND	6.2	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Anthracene	ND	6.3	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Azobenzene	ND	7.4	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Benz(a)anthracene	ND	4.7	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
Benzo(a)pyrene	ND	5.8	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Benzo(b)fluoranthene	ND	5.0	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Benzo(g,h,i)perylene	ND	4.2	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
Benzo(k)fluoranthene	ND	6.2	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Benzoic acid	ND	18	20		µg/L	1	8/17/2022 2:50:05 PM	69277
Benzyl alcohol	ND	4.3	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
Bis(2-chloroethoxy)methane	ND	5.7	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Bis(2-chloroethyl)ether	ND	6.2	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Bis(2-chloroisopropyl)ether	ND	4.9	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
Bis(2-ethylhexyl)phthalate	ND	8.4	10		µg/L	1	8/17/2022 2:50:05 PM	69277
4-Bromophenyl phenyl ether	ND	7.9	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Butyl benzyl phthalate	ND	8.3	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Carbazole	ND	6.2	10		µg/L	1	8/17/2022 2:50:05 PM	69277
4-Chloro-3-methylphenol	ND	4.4	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
4-Chloroaniline	ND	4.5	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
2-Chloronaphthalene	ND	5.9	10		µg/L	1	8/17/2022 2:50:05 PM	69277
2-Chlorophenol	ND	4.7	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
4-Chlorophenyl phenyl ether	ND	6.1	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Chrysene	ND	5.3	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Di-n-butyl phthalate	ND	7.7	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Di-n-octyl phthalate	ND	12	20		µg/L	1	8/17/2022 2:50:05 PM	69277
Dibenz(a,h)anthracene	ND	5.1	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Dibenzofuran	ND	6.2	10		µg/L	1	8/17/2022 2:50:05 PM	69277
1,2-Dichlorobenzene	ND	3.3	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
1,3-Dichlorobenzene	ND	3.3	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
1,4-Dichlorobenzene	ND	2.4	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
3,3´-Dichlorobenzidine	ND	6.6	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Diethyl phthalate	ND	6.0	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Dimethyl phthalate	ND	6.0	10		µg/L	1	8/17/2022 2:50:05 PM	69277
2,4-Dichlorophenol	ND	4.1	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-73
Project: MPC Full Terminal
Collection Date: 8/1/2022 2:20:00 PM
Lab ID: 2208155-003B
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
2,4-Dimethylphenol	ND	5.8	10		µg/L	1	8/17/2022 2:50:05 PM	69277
4,6-Dinitro-2-methylphenol	ND	6.8	10		µg/L	1	8/17/2022 2:50:05 PM	69277
2,4-Dinitrophenol	ND	16	20		µg/L	1	8/17/2022 2:50:05 PM	69277
2,4-Dinitrotoluene	ND	4.9	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
2,6-Dinitrotoluene	ND	7.2	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Fluoranthene	ND	7.3	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Fluorene	ND	6.5	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Hexachlorobenzene	ND	19	20		µg/L	1	8/17/2022 2:50:05 PM	69277
Hexachlorobutadiene	ND	17	20		µg/L	1	8/17/2022 2:50:05 PM	69277
Hexachlorocyclopentadiene	ND	18	20		µg/L	1	8/17/2022 2:50:05 PM	69277
Hexachloroethane	ND	14	20		µg/L	1	8/17/2022 2:50:05 PM	69277
Indeno(1,2,3-cd)pyrene	ND	5.8	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Isophorone	ND	4.3	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
1-Methylnaphthalene	ND	4.3	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
2-Methylnaphthalene	45	4.2	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
2-Methylphenol	ND	5.0	10		µg/L	1	8/17/2022 2:50:05 PM	69277
3+4-Methylphenol	ND	5.1	10		µg/L	1	8/17/2022 2:50:05 PM	69277
N-Nitrosodi-n-propylamine	ND	4.6	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
N-Nitrosodimethylamine	ND	3.9	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
N-Nitrosodiphenylamine	ND	7.3	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Naphthalene	100	3.2	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
2-Nitroaniline	ND	5.3	10		µg/L	1	8/17/2022 2:50:05 PM	69277
3-Nitroaniline	ND	5.7	10		µg/L	1	8/17/2022 2:50:05 PM	69277
4-Nitroaniline	ND	4.4	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
Nitrobenzene	ND	4.9	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
2-Nitrophenol	ND	5.2	10		µg/L	1	8/17/2022 2:50:05 PM	69277
4-Nitrophenol	ND	3.3	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Pentachlorophenol	ND	27	40		µg/L	1	8/17/2022 2:50:05 PM	69277
Phenanthrene	ND	8.3	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Phenol	180	18	20		µg/L	1	8/17/2022 2:50:05 PM	69277
Pyrene	ND	7.1	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Pyridine	ND	14	40		µg/L	1	8/17/2022 2:50:05 PM	69277
1,2,4-Trichlorobenzene	ND	4.4	5.0		µg/L	1	8/17/2022 2:50:05 PM	69277
2,4,5-Trichlorophenol	ND	6.3	10		µg/L	1	8/17/2022 2:50:05 PM	69277
2,4,6-Trichlorophenol	ND	5.9	10		µg/L	1	8/17/2022 2:50:05 PM	69277
Surr: 2-Fluorophenol	53.2	0	15-84.5		%Rec	1	8/17/2022 2:50:05 PM	69277
Surr: Phenol-d5	0	0	15-67	S	%Rec	1	8/17/2022 2:50:05 PM	69277
Surr: 2,4,6-Tribromophenol	78.6	0	15-108		%Rec	1	8/17/2022 2:50:05 PM	69277
Surr: Nitrobenzene-d5	70.3	0	16.8-112		%Rec	1	8/17/2022 2:50:05 PM	69277
Surr: 2-Fluorobiphenyl	70.5	0	15-101		%Rec	1	8/17/2022 2:50:05 PM	69277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-003B

Client Sample ID: MW-73
Collection Date: 8/1/2022 2:20:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 4-Terphenyl-d14	80.1	0	34.4-134		%Rec	1	8/17/2022 2:50:05 PM	69277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-73
Project: MPC Full Terminal
Collection Date: 8/1/2022 2:20:00 PM
Lab ID: 2208155-003C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	ND	0.23	0.50		mg/L	5	8/3/2022 9:41:17 PM	A90013
Chloride	120	5.0	10		mg/L	20	8/3/2022 9:54:10 PM	A90013
Bromide	2.7	0.25	0.50		mg/L	5	8/3/2022 9:41:17 PM	A90013
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5	H	mg/L	5	8/3/2022 9:41:17 PM	A90013
Sulfate	24	1.2	2.5		mg/L	5	8/3/2022 9:41:17 PM	A90013
Nitrate+Nitrite as N	ND	0.11	1.0	H	mg/L	5	8/30/2022 12:26:48 AM	R90649
CARBON DIOXIDE							Analyst: **JTT**	
Total Carbon Dioxide	960	0	1.0	H	mg CO2/	1	8/23/2022 2:02:00 AM	R90490
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	1020	20.00	20.00		mg/L Ca	1	8/8/2022 3:38:53 PM	R90100
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/8/2022 3:38:53 PM	R90100
Total Alkalinity (as CaCO3)	1020	20.00	20.00		mg/L Ca	1	8/8/2022 3:38:53 PM	R90100
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	1500	200	200	*D	mg/L	1	8/8/2022 8:10:00 AM	69283

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-003D

Client Sample ID: MW-73
Collection Date: 8/1/2022 2:20:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	4.8	0.0079	0.015	*	mg/L	5	8/9/2022 11:50:39 AM	69312
Cadmium	ND	0.0018	0.0020		mg/L	1	8/9/2022 11:44:07 AM	69312
Chromium	ND	0.0020	0.0060		mg/L	1	8/9/2022 11:44:07 AM	69312
Silver	ND	0.0018	0.0050		mg/L	1	8/9/2022 11:44:07 AM	69312
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0034	0.00013	0.0010		mg/L	1	8/11/2022 1:45:11 PM	69312
Lead	0.0029	0.00031	0.0025		mg/L	5	8/11/2022 3:50:25 PM	69312
Selenium	0.00069	0.00037	0.0010	J	mg/L	1	8/11/2022 1:45:11 PM	69312
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 12:40:50 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-73
Project: MPC Full Terminal
Collection Date: 8/1/2022 2:20:00 PM
Lab ID: 2208155-003E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	4.7	0.0056	0.010	*	mg/L	5	8/23/2022 12:08:54 PM	A90525
Cadmium	ND	0.00098	0.0020		mg/L	1	8/23/2022 12:06:57 PM	A90525
Calcium	93	0.11	1.0		mg/L	1	8/23/2022 12:06:57 PM	A90525
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 12:06:57 PM	A90525
Iron	7.2	0.10	0.20	*	mg/L	10	8/25/2022 3:45:56 PM	A90598
Magnesium	45	0.067	1.0		mg/L	1	8/23/2022 12:06:57 PM	A90525
Manganese	0.48	0.00058	0.0020	*	mg/L	1	8/23/2022 12:06:57 PM	A90525
Potassium	4.9	0.16	1.0		mg/L	1	8/23/2022 12:06:57 PM	A90525
Silver	ND	0.0013	0.0050		mg/L	1	8/23/2022 12:06:57 PM	A90525
Sodium	390	1.7	5.0		mg/L	5	8/23/2022 12:08:54 PM	A90525
Zinc	0.0061	0.0032	0.010	J	mg/L	1	8/23/2022 12:06:57 PM	A90525
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.0021	0.00012	0.0010		mg/L	1	8/3/2022 2:55:47 PM	B90003
Copper	ND	0.00037	0.0010		mg/L	1	8/3/2022 2:55:47 PM	B90003
Lead	0.00076	0.000057	0.00050		mg/L	1	8/3/2022 2:55:47 PM	B90003
Selenium	0.00072	0.00034	0.0010	J	mg/L	1	8/3/2022 2:55:47 PM	B90003
Uranium	ND	0.000065	0.00050		mg/L	1	8/3/2022 2:55:47 PM	B90003
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 12:43:00 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-52
Project: MPC Full Terminal
Collection Date: 8/2/2022 11:35:00 AM
Lab ID: 2208155-004A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/5/2022 9:09:15 AM	A90070
Surr: BFB	98.5	0	70-130		%Rec	1	8/5/2022 9:09:15 AM	A90070
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Toluene	ND	0.20	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Naphthalene	ND	0.50	2.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Acetone	9.1	2.5	10	J	µg/L	1	8/4/2022 4:06:00 PM	R90019
Bromobenzene	ND	0.28	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Bromoform	ND	0.31	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Bromomethane	ND	0.85	3.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
2-Butanone	ND	2.0	10		µg/L	1	8/4/2022 4:06:00 PM	R90019
Carbon disulfide	ND	0.59	10		µg/L	1	8/4/2022 4:06:00 PM	R90019
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Chloroethane	ND	0.38	2.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Chloroform	ND	0.13	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Chloromethane	ND	0.41	3.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Dibromomethane	ND	0.31	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-52
Project: MPC Full Terminal
Collection Date: 8/2/2022 11:35:00 AM
Lab ID: 2208155-004A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
2-Hexanone	ND	1.8	10		µg/L	1	8/4/2022 4:06:00 PM	R90019
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/4/2022 4:06:00 PM	R90019
Methylene Chloride	1.7	0.50	3.0	J	µg/L	1	8/4/2022 4:06:00 PM	R90019
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Styrene	ND	0.14	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/4/2022 4:06:00 PM	R90019
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/4/2022 4:06:00 PM	R90019
Surr: 1,2-Dichloroethane-d4	117	0	70-130		%Rec	1	8/4/2022 4:06:00 PM	R90019
Surr: 4-Bromofluorobenzene	99.2	0	70-130		%Rec	1	8/4/2022 4:06:00 PM	R90019
Surr: Dibromofluoromethane	108	0	70-130		%Rec	1	8/4/2022 4:06:00 PM	R90019
Surr: Toluene-d8	94.6	0	70-130		%Rec	1	8/4/2022 4:06:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-004B

Client Sample ID: MW-52
Collection Date: 8/2/2022 11:35:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	0.098	0.016	0.064		mg/L	1	8/16/2022 12:01:55 PM	69247
Motor Oil Range Organics (MRO)	0.062	0.052	0.080	J	mg/L	1	8/16/2022 12:01:55 PM	69247
Surr: DNOP	138	0	42.2-138	S	%Rec	1	8/16/2022 12:01:55 PM	69247

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-52
Project: MPC Full Terminal
Collection Date: 8/2/2022 11:35:00 AM
Lab ID: 2208155-004C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.19	0.046	0.10		mg/L	1	8/3/2022 10:07:02 PM	A90013
Chloride	560	25	50	*	mg/L	100	8/23/2022 2:52:38 PM	R90519
Nitrogen, Nitrite (As N)	ND	0.23	2.0		mg/L	20	8/3/2022 10:19:54 PM	A90013
Bromide	3.2	0.050	0.10		mg/L	1	8/3/2022 10:07:02 PM	A90013
Nitrogen, Nitrate (As N)	44	0.40	2.0	*	mg/L	20	8/3/2022 10:19:54 PM	A90013
Phosphorus, Orthophosphate (As P)	ND	5.0	10		mg/L	20	8/3/2022 10:19:54 PM	A90013
Sulfate	1400	25	50	*	mg/L	100	8/23/2022 2:52:38 PM	R90519
CARBON DIOXIDE							Analyst: **JTT**	
Total Carbon Dioxide	120	0	1.0	H	mg CO2/	1	8/23/2022 2:38:00 AM	R90490
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	117.5	20.00	20.00		mg/L Ca	1	8/8/2022 4:17:38 PM	R90100
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/8/2022 4:17:38 PM	R90100
Total Alkalinity (as CaCO3)	117.5	20.00	20.00		mg/L Ca	1	8/8/2022 4:17:38 PM	R90100
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	4190	40.0	40.0	*D	mg/L	1	8/8/2022 8:10:00 AM	69283

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-004D

Client Sample ID: MW-52
Collection Date: 8/2/2022 11:35:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	0.018	0.0016	0.0030		mg/L	1	8/9/2022 11:52:08 AM	69312
Cadmium	ND	0.0018	0.0020		mg/L	1	8/9/2022 11:52:08 AM	69312
Chromium	ND	0.0020	0.0060		mg/L	1	8/9/2022 11:52:08 AM	69312
Silver	0.0021	0.0018	0.0050	J	mg/L	1	8/9/2022 11:52:08 AM	69312
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0011	0.00063	0.0050	J	mg/L	5	8/17/2022 3:36:19 PM	69312
Lead	ND	0.00031	0.0025		mg/L	5	8/11/2022 3:52:51 PM	69312
Selenium	0.056	0.0019	0.0050	*	mg/L	5	8/17/2022 3:36:19 PM	69312
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	0.000093	0.000091	0.00020	J	mg/L	1	8/12/2022 12:45:10 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-004E

Client Sample ID: MW-52
Collection Date: 8/2/2022 11:35:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.012	0.0011	0.0020		mg/L	1	8/23/2022 12:17:08 PM	A90525
Cadmium	ND	0.00098	0.0020		mg/L	1	8/23/2022 12:17:08 PM	A90525
Calcium	420	0.57	5.0		mg/L	5	8/23/2022 12:19:23 PM	A90525
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 12:17:08 PM	A90525
Iron	0.021	0.010	0.020		mg/L	1	8/23/2022 12:17:08 PM	A90525
Magnesium	120	0.34	5.0		mg/L	5	8/23/2022 12:19:23 PM	A90525
Manganese	5.0	0.0058	0.020	*	mg/L	10	8/25/2022 3:48:03 PM	A90598
Potassium	4.4	0.16	1.0		mg/L	1	8/23/2022 12:17:08 PM	A90525
Silver	0.0067	0.0013	0.0050		mg/L	1	8/23/2022 12:17:08 PM	A90525
Sodium	710	3.3	10		mg/L	10	8/25/2022 3:48:03 PM	A90598
Zinc	0.057	0.0032	0.010		mg/L	1	8/23/2022 12:17:08 PM	A90525
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.00090	0.00061	0.0050	J	mg/L	5	8/3/2022 4:36:57 PM	B90003
Copper	ND	0.0018	0.0050		mg/L	5	8/3/2022 4:36:57 PM	B90003
Lead	ND	0.00028	0.0025		mg/L	5	8/4/2022 1:44:45 PM	A90020
Selenium	0.059	0.0017	0.0050	*	mg/L	5	8/3/2022 4:36:57 PM	B90003
Uranium	0.0028	0.00033	0.0025		mg/L	5	8/4/2022 1:44:45 PM	A90020
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 12:47:19 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-53
Project: MPC Full Terminal
Collection Date: 8/2/2022 10:40:00 AM
Lab ID: 2208155-005A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/4/2022 3:42:10 PM	A90015
Surr: BFB	104	0	70-130		%Rec	1	8/4/2022 3:42:10 PM	A90015
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Toluene	ND	0.20	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Naphthalene	ND	0.50	2.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Acetone	4.8	2.5	10	J	µg/L	1	8/4/2022 4:29:00 PM	R90019
Bromobenzene	ND	0.28	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Bromoform	ND	0.31	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Bromomethane	ND	0.85	3.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
2-Butanone	ND	2.0	10		µg/L	1	8/4/2022 4:29:00 PM	R90019
Carbon disulfide	ND	0.59	10		µg/L	1	8/4/2022 4:29:00 PM	R90019
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Chloroethane	ND	0.38	2.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Chloroform	ND	0.13	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Chloromethane	ND	0.41	3.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Dibromomethane	ND	0.31	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-005A

Client Sample ID: MW-53
Collection Date: 8/2/2022 10:40:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
2-Hexanone	ND	1.8	10		µg/L	1	8/4/2022 4:29:00 PM	R90019
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/4/2022 4:29:00 PM	R90019
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Styrene	ND	0.14	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/4/2022 4:29:00 PM	R90019
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/4/2022 4:29:00 PM	R90019
Surr: 1,2-Dichloroethane-d4	113	0	70-130		%Rec	1	8/4/2022 4:29:00 PM	R90019
Surr: 4-Bromofluorobenzene	99.7	0	70-130		%Rec	1	8/4/2022 4:29:00 PM	R90019
Surr: Dibromofluoromethane	103	0	70-130		%Rec	1	8/4/2022 4:29:00 PM	R90019
Surr: Toluene-d8	92.6	0	70-130		%Rec	1	8/4/2022 4:29:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-005B

Client Sample ID: MW-53
Collection Date: 8/2/2022 10:40:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	0.10	0.016	0.064		mg/L	1	8/16/2022 12:25:45 PM	69247
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/16/2022 12:25:45 PM	69247
Surr: DNOP	111	0	42.2-138		%Rec	1	8/16/2022 12:25:45 PM	69247

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-53
Project: MPC Full Terminal
Collection Date: 8/2/2022 10:40:00 AM
Lab ID: 2208155-005C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	ND	0.92	2.0		mg/L	20	8/3/2022 10:45:38 PM	A90013
Chloride	790	25	50	*	mg/L	100	8/23/2022 3:31:14 PM	R90519
Nitrogen, Nitrite (As N)	ND	0.23	2.0		mg/L	20	8/3/2022 10:45:38 PM	A90013
Bromide	2.5	0.050	0.10		mg/L	1	8/3/2022 10:32:46 PM	A90013
Nitrogen, Nitrate (As N)	25	0.40	2.0	*	mg/L	20	8/3/2022 10:45:38 PM	A90013
Phosphorus, Orthophosphate (As P)	ND	5.0	10		mg/L	20	8/3/2022 10:45:38 PM	A90013
Sulfate	980	25	50	*	mg/L	100	8/23/2022 3:31:14 PM	R90519
CARBON DIOXIDE							Analyst: **JTT**	
Total Carbon Dioxide	240	0	1.0	H	mg CO2/	1	8/23/2022 2:47:00 AM	R90490
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	259.1	20.00	20.00		mg/L Ca	1	8/8/2022 4:28:09 PM	R90100
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/8/2022 4:28:09 PM	R90100
Total Alkalinity (as CaCO3)	259.1	20.00	20.00		mg/L Ca	1	8/8/2022 4:28:09 PM	R90100
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	3560	20.0	20.0	*	mg/L	1	8/8/2022 8:10:00 AM	69283

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-53
Project: MPC Full Terminal
Collection Date: 8/2/2022 10:40:00 AM
Lab ID: 2208155-005D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **JRR**	
Barium	0.015	0.0016	0.0030		mg/L	1	8/22/2022 9:49:04 AM	A90470
Cadmium	ND	0.0018	0.0020		mg/L	1	8/22/2022 9:49:04 AM	A90470
Chromium	ND	0.0020	0.0060		mg/L	1	8/22/2022 9:49:04 AM	A90470
Silver	0.0061	0.0018	0.0050		mg/L	1	8/22/2022 9:49:04 AM	A90470
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0014	0.00063	0.0050	J	mg/L	5	8/4/2022 2:41:23 PM	B90020
Lead	ND	0.000061	0.00050		mg/L	1	8/4/2022 2:14:21 PM	B90020
Selenium	0.037	0.0019	0.0050		mg/L	5	8/4/2022 2:41:23 PM	B90020
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 12:49:28 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-53
Project: MPC Full Terminal
Collection Date: 8/2/2022 10:40:00 AM
Lab ID: 2208155-005E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.016	0.0011	0.0020		mg/L	1	8/23/2022 12:21:37 PM	A90525
Cadmium	ND	0.00098	0.0020		mg/L	1	8/23/2022 12:21:37 PM	A90525
Calcium	330	0.57	5.0		mg/L	5	8/23/2022 12:23:38 PM	A90525
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 12:21:37 PM	A90525
Iron	0.010	0.010	0.020	J	mg/L	1	8/23/2022 12:21:37 PM	A90525
Magnesium	56	0.067	1.0		mg/L	1	8/23/2022 12:21:37 PM	A90525
Manganese	0.032	0.00058	0.0020		mg/L	1	8/23/2022 12:21:37 PM	A90525
Potassium	4.3	0.16	1.0		mg/L	1	8/23/2022 12:21:37 PM	A90525
Silver	0.0062	0.0013	0.0050		mg/L	1	8/23/2022 12:21:37 PM	A90525
Sodium	810	17	50		mg/L	50	9/6/2022 2:18:58 PM	A90845
Zinc	0.0084	0.0032	0.010	J	mg/L	1	8/23/2022 12:21:37 PM	A90525
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.0013	0.00061	0.0050	J	mg/L	5	8/3/2022 4:39:38 PM	B90003
Copper	ND	0.0018	0.0050		mg/L	5	8/3/2022 4:39:38 PM	B90003
Lead	ND	0.00028	0.0025		mg/L	5	8/4/2022 1:47:26 PM	A90020
Selenium	0.046	0.0017	0.0050		mg/L	5	8/3/2022 4:39:38 PM	B90003
Uranium	0.011	0.00033	0.0025		mg/L	5	8/4/2022 1:47:26 PM	A90020
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	0.000093	0.000091	0.00020	J	mg/L	1	8/12/2022 1:00:10 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-29
Project: MPC Full Terminal
Collection Date: 8/2/2022 1:35:00 PM
Lab ID: 2208155-006A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/5/2022 9:32:49 AM	A90070
Surr: BFB	100	0	70-130		%Rec	1	8/5/2022 9:32:49 AM	A90070
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Toluene	ND	0.20	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Naphthalene	ND	0.50	2.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Acetone	6.0	2.5	10	J	µg/L	1	8/4/2022 4:53:00 PM	R90019
Bromobenzene	ND	0.28	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Bromoform	ND	0.31	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Bromomethane	ND	0.85	3.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
2-Butanone	ND	2.0	10		µg/L	1	8/4/2022 4:53:00 PM	R90019
Carbon disulfide	ND	0.59	10		µg/L	1	8/4/2022 4:53:00 PM	R90019
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Chloroethane	ND	0.38	2.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Chloroform	ND	0.13	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Chloromethane	ND	0.41	3.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Dibromomethane	ND	0.31	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-29
Project: MPC Full Terminal
Collection Date: 8/2/2022 1:35:00 PM
Lab ID: 2208155-006A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
2-Hexanone	ND	1.8	10		µg/L	1	8/4/2022 4:53:00 PM	R90019
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/4/2022 4:53:00 PM	R90019
Methylene Chloride	0.58	0.50	3.0	J	µg/L	1	8/4/2022 4:53:00 PM	R90019
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Styrene	ND	0.14	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/4/2022 4:53:00 PM	R90019
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/4/2022 4:53:00 PM	R90019
Surr: 1,2-Dichloroethane-d4	114	0	70-130		%Rec	1	8/4/2022 4:53:00 PM	R90019
Surr: 4-Bromofluorobenzene	99.7	0	70-130		%Rec	1	8/4/2022 4:53:00 PM	R90019
Surr: Dibromofluoromethane	106	0	70-130		%Rec	1	8/4/2022 4:53:00 PM	R90019
Surr: Toluene-d8	95.4	0	70-130		%Rec	1	8/4/2022 4:53:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-006B

Client Sample ID: MW-29
Collection Date: 8/2/2022 1:35:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	0.069	0.016	0.064		mg/L	1	8/16/2022 12:49:40 PM	69247
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/16/2022 12:49:40 PM	69247
Surr: DNOP	133	0	42.2-138		%Rec	1	8/16/2022 12:49:40 PM	69247

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-29
Project: MPC Full Terminal
Collection Date: 8/2/2022 1:35:00 PM
Lab ID: 2208155-006C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.10	0.046	0.10		mg/L	1	8/3/2022 10:58:30 PM	A90013
Chloride	320	5.0	10	*	mg/L	20	8/3/2022 11:11:23 PM	A90013
Nitrogen, Nitrite (As N)	ND	0.011	0.10		mg/L	1	8/3/2022 10:58:30 PM	A90013
Bromide	2.2	0.050	0.10		mg/L	1	8/3/2022 10:58:30 PM	A90013
Nitrogen, Nitrate (As N)	27	0.40	2.0	*	mg/L	20	8/3/2022 11:11:23 PM	A90013
Phosphorus, Orthophosphate (As P)	ND	5.0	10		mg/L	20	8/3/2022 11:11:23 PM	A90013
Sulfate	840	5.0	10	*	mg/L	20	8/3/2022 11:11:23 PM	A90013
CARBON DIOXIDE							Analyst: **JTT**	
Total Carbon Dioxide	310	0	1.0	H	mg CO2/	1	8/23/2022 3:00:00 AM	R90490
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	334.4	20.00	20.00		mg/L Ca	1	8/8/2022 4:41:33 PM	R90100
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/8/2022 4:41:33 PM	R90100
Total Alkalinity (as CaCO3)	334.4	20.00	20.00		mg/L Ca	1	8/8/2022 4:41:33 PM	R90100
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	2130	20.0	20.0	*	mg/L	1	8/8/2022 8:10:00 AM	69283

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-29
Project: MPC Full Terminal
Collection Date: 8/2/2022 1:35:00 PM
Lab ID: 2208155-006D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	0.057	0.0016	0.0030		mg/L	1	8/9/2022 11:58:51 AM	69312
Cadmium	ND	0.0018	0.0020		mg/L	1	8/9/2022 11:58:51 AM	69312
Chromium	ND	0.0020	0.0060		mg/L	1	8/9/2022 11:58:51 AM	69312
Silver	ND	0.0018	0.0050		mg/L	1	8/9/2022 11:58:51 AM	69312
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0013	0.00013	0.0010		mg/L	1	8/11/2022 1:50:04 PM	69312
Lead	ND	0.00031	0.0025		mg/L	5	8/11/2022 3:55:16 PM	69312
Selenium	0.013	0.00037	0.0010		mg/L	1	8/11/2022 1:50:04 PM	69312
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	0.000092	0.000091	0.00020	J	mg/L	1	8/12/2022 1:02:19 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-29
Project: MPC Full Terminal
Collection Date: 8/2/2022 1:35:00 PM
Lab ID: 2208155-006E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.046	0.0011	0.0020		mg/L	1	8/23/2022 12:25:50 PM	A90525
Cadmium	ND	0.00098	0.0020		mg/L	1	8/23/2022 12:25:50 PM	A90525
Calcium	270	0.57	5.0		mg/L	5	8/23/2022 12:28:01 PM	A90525
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 12:25:50 PM	A90525
Iron	ND	0.010	0.020		mg/L	1	8/23/2022 12:25:50 PM	A90525
Magnesium	53	0.067	1.0		mg/L	1	8/23/2022 12:25:50 PM	A90525
Manganese	0.76	0.00058	0.0020	*	mg/L	1	8/23/2022 12:25:50 PM	A90525
Potassium	3.2	0.16	1.0		mg/L	1	8/23/2022 12:25:50 PM	A90525
Silver	0.0050	0.0013	0.0050		mg/L	1	8/23/2022 12:25:50 PM	A90525
Sodium	320	1.7	5.0		mg/L	5	8/23/2022 12:28:01 PM	A90525
Zinc	0.0047	0.0032	0.010	J	mg/L	1	8/23/2022 12:25:50 PM	A90525
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.00071	0.00061	0.0050	J	mg/L	5	8/3/2022 4:42:20 PM	B90003
Copper	ND	0.0018	0.0050		mg/L	5	8/3/2022 4:42:20 PM	B90003
Lead	ND	0.00028	0.0025		mg/L	5	8/4/2022 1:55:31 PM	A90020
Selenium	0.010	0.0017	0.0050		mg/L	5	8/3/2022 4:42:20 PM	B90003
Uranium	0.0076	0.00033	0.0025		mg/L	5	8/4/2022 1:55:31 PM	A90020
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 1:04:28 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-29-FD
Project: MPC Full Terminal
Collection Date: 8/2/2022 1:35:00 PM
Lab ID: 2208155-007A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/4/2022 4:30:04 PM	A90015
Surr: BFB	106	0	70-130		%Rec	1	8/4/2022 4:30:04 PM	A90015
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Toluene	ND	0.20	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Naphthalene	ND	0.50	2.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Acetone	8.0	2.5	10	J	µg/L	1	8/4/2022 5:16:00 PM	R90019
Bromobenzene	ND	0.28	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Bromoform	ND	0.31	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Bromomethane	ND	0.85	3.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
2-Butanone	ND	2.0	10		µg/L	1	8/4/2022 5:16:00 PM	R90019
Carbon disulfide	ND	0.59	10		µg/L	1	8/4/2022 5:16:00 PM	R90019
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Chloroethane	ND	0.38	2.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Chloroform	ND	0.13	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Chloromethane	ND	0.41	3.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Dibromomethane	ND	0.31	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-29-FD
Project: MPC Full Terminal
Collection Date: 8/2/2022 1:35:00 PM
Lab ID: 2208155-007A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
2-Hexanone	ND	1.8	10		µg/L	1	8/4/2022 5:16:00 PM	R90019
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/4/2022 5:16:00 PM	R90019
Methylene Chloride	0.57	0.50	3.0	J	µg/L	1	8/4/2022 5:16:00 PM	R90019
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Styrene	ND	0.14	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/4/2022 5:16:00 PM	R90019
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/4/2022 5:16:00 PM	R90019
Surr: 1,2-Dichloroethane-d4	113	0	70-130		%Rec	1	8/4/2022 5:16:00 PM	R90019
Surr: 4-Bromofluorobenzene	98.8	0	70-130		%Rec	1	8/4/2022 5:16:00 PM	R90019
Surr: Dibromofluoromethane	105	0	70-130		%Rec	1	8/4/2022 5:16:00 PM	R90019
Surr: Toluene-d8	94.0	0	70-130		%Rec	1	8/4/2022 5:16:00 PM	R90019

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Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-007B

Client Sample ID: MW-29-FD
Collection Date: 8/2/2022 1:35:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	0.10	0.016	0.064		mg/L	1	8/16/2022 1:15:43 PM	69247
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/16/2022 1:15:43 PM	69247
Surr: DNOP	156	0	42.2-138	S	%Rec	1	8/16/2022 1:15:43 PM	69247

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-29-FD
Project: MPC Full Terminal
Collection Date: 8/2/2022 1:35:00 PM
Lab ID: 2208155-007C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.10	0.046	0.10		mg/L	1	8/3/2022 11:24:16 PM	A90013
Chloride	320	5.0	10	*	mg/L	20	8/3/2022 11:37:08 PM	A90013
Nitrogen, Nitrite (As N)	ND	0.011	0.10		mg/L	1	8/3/2022 11:24:16 PM	A90013
Bromide	2.2	0.050	0.10		mg/L	1	8/3/2022 11:24:16 PM	A90013
Nitrogen, Nitrate (As N)	28	0.40	2.0	*	mg/L	20	8/3/2022 11:37:08 PM	A90013
Phosphorus, Orthophosphate (As P)	ND	5.0	10		mg/L	20	8/3/2022 11:37:08 PM	A90013
Sulfate	850	5.0	10	*	mg/L	20	8/3/2022 11:37:08 PM	A90013
CARBON DIOXIDE							Analyst: **JTT**	
Total Carbon Dioxide	310	0	1.0	H	mg CO2/	1	8/23/2022 3:15:00 AM	R90490
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	335.2	20.00	20.00		mg/L Ca	1	8/8/2022 4:57:52 PM	R90100
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/8/2022 4:57:52 PM	R90100
Total Alkalinity (as CaCO3)	335.2	20.00	20.00		mg/L Ca	1	8/8/2022 4:57:52 PM	R90100
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	2160	40.0	40.0	*D	mg/L	1	8/8/2022 8:10:00 AM	69283

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-007D

Client Sample ID: MW-29-FD
Collection Date: 8/2/2022 1:35:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	0.059	0.0016	0.0030		mg/L	1	8/9/2022 12:02:13 PM	69312
Cadmium	ND	0.0018	0.0020		mg/L	1	8/9/2022 12:02:13 PM	69312
Chromium	ND	0.0020	0.0060		mg/L	1	8/9/2022 12:02:13 PM	69312
Silver	ND	0.0018	0.0050		mg/L	1	8/9/2022 12:02:13 PM	69312
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0013	0.00013	0.0010		mg/L	1	8/11/2022 1:52:31 PM	69312
Lead	ND	0.00031	0.0025		mg/L	5	8/11/2022 3:57:42 PM	69312
Selenium	0.013	0.00037	0.0010		mg/L	1	8/11/2022 1:52:31 PM	69312
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 1:06:37 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-29-FD
Project: MPC Full Terminal
Collection Date: 8/2/2022 1:35:00 PM
Lab ID: 2208155-007E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.046	0.0011	0.0020		mg/L	1	8/23/2022 12:30:16 PM	B90525
Cadmium	ND	0.00098	0.0020		mg/L	1	8/23/2022 12:30:16 PM	B90525
Calcium	280	0.57	5.0		mg/L	5	8/23/2022 12:32:30 PM	B90525
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 12:30:16 PM	B90525
Iron	ND	0.010	0.020		mg/L	1	8/23/2022 12:30:16 PM	B90525
Magnesium	52	0.067	1.0		mg/L	1	8/23/2022 12:30:16 PM	B90525
Manganese	0.73	0.00058	0.0020	*	mg/L	1	8/23/2022 12:30:16 PM	B90525
Potassium	3.1	0.16	1.0		mg/L	1	8/23/2022 12:30:16 PM	B90525
Silver	0.0050	0.0013	0.0050		mg/L	1	8/23/2022 12:30:16 PM	B90525
Sodium	320	1.7	5.0		mg/L	5	8/23/2022 12:32:30 PM	B90525
Zinc	0.0079	0.0032	0.010	J	mg/L	1	8/23/2022 12:30:16 PM	B90525
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.0012	0.00012	0.0010		mg/L	1	8/3/2022 3:06:32 PM	B90003
Copper	0.0012	0.00037	0.0010		mg/L	1	8/3/2022 3:06:32 PM	B90003
Lead	ND	0.000057	0.00050		mg/L	1	8/3/2022 3:06:32 PM	B90003
Selenium	0.013	0.00034	0.0010		mg/L	1	8/3/2022 3:06:32 PM	B90003
Uranium	0.0084	0.000065	0.00050		mg/L	1	8/3/2022 3:06:32 PM	B90003
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 1:08:46 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-29-FB
Project: MPC Full Terminal
Collection Date: 8/2/2022 1:35:00 PM
Lab ID: 2208155-008A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/4/2022 4:53:56 PM	A90015
Surr: BFB	104	0	70-130		%Rec	1	8/4/2022 4:53:56 PM	A90015
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Toluene	ND	0.20	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Naphthalene	ND	0.50	2.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Acetone	4.6	2.5	10	J	µg/L	1	8/4/2022 5:40:00 PM	R90019
Bromobenzene	ND	0.28	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Bromoform	ND	0.31	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Bromomethane	ND	0.85	3.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
2-Butanone	ND	2.0	10		µg/L	1	8/4/2022 5:40:00 PM	R90019
Carbon disulfide	ND	0.59	10		µg/L	1	8/4/2022 5:40:00 PM	R90019
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Chloroethane	ND	0.38	2.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Chloroform	ND	0.13	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Chloromethane	ND	0.41	3.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Dibromomethane	ND	0.31	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-29-FB
Project: MPC Full Terminal
Collection Date: 8/2/2022 1:35:00 PM
Lab ID: 2208155-008A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
2-Hexanone	ND	1.8	10		µg/L	1	8/4/2022 5:40:00 PM	R90019
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/4/2022 5:40:00 PM	R90019
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Styrene	ND	0.14	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/4/2022 5:40:00 PM	R90019
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/4/2022 5:40:00 PM	R90019
Surr: 1,2-Dichloroethane-d4	116	0	70-130		%Rec	1	8/4/2022 5:40:00 PM	R90019
Surr: 4-Bromofluorobenzene	96.7	0	70-130		%Rec	1	8/4/2022 5:40:00 PM	R90019
Surr: Dibromofluoromethane	109	0	70-130		%Rec	1	8/4/2022 5:40:00 PM	R90019
Surr: Toluene-d8	94.8	0	70-130		%Rec	1	8/4/2022 5:40:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-31
Project: MPC Full Terminal
Collection Date: 8/2/2022 11:05:00 AM
Lab ID: 2208155-009A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	0.36	0.0090	0.050		mg/L	1	8/4/2022 5:17:47 PM	A90015
Surr: BFB	277	0	70-130	S	%Rec	1	8/4/2022 5:17:47 PM	A90015
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	33	0.23	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Toluene	0.48	0.20	1.0	J	µg/L	1	8/4/2022 6:03:00 PM	R90019
Ethylbenzene	4.7	0.21	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
1,2,4-Trimethylbenzene	0.31	0.12	1.0	J	µg/L	1	8/4/2022 6:03:00 PM	R90019
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Naphthalene	5.5	0.50	2.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
1-Methylnaphthalene	6.6	0.84	4.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
2-Methylnaphthalene	3.3	0.69	4.0	J	µg/L	1	8/4/2022 6:03:00 PM	R90019
Acetone	11	2.5	10		µg/L	1	8/4/2022 6:03:00 PM	R90019
Bromobenzene	ND	0.28	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Bromoform	ND	0.31	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Bromomethane	ND	0.85	3.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
2-Butanone	ND	2.0	10		µg/L	1	8/4/2022 6:03:00 PM	R90019
Carbon disulfide	ND	0.59	10		µg/L	1	8/4/2022 6:03:00 PM	R90019
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Chloroethane	ND	0.38	2.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Chloroform	ND	0.13	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Chloromethane	ND	0.41	3.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Dibromomethane	ND	0.31	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-31
Project: MPC Full Terminal
Collection Date: 8/2/2022 11:05:00 AM
Lab ID: 2208155-009A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
2-Hexanone	ND	1.8	10		µg/L	1	8/4/2022 6:03:00 PM	R90019
Isopropylbenzene	12	0.18	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/4/2022 6:03:00 PM	R90019
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
n-Butylbenzene	1.3	0.25	3.0	J	µg/L	1	8/4/2022 6:03:00 PM	R90019
n-Propylbenzene	34	0.18	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
sec-Butylbenzene	6.2	0.14	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Styrene	ND	0.14	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
tert-Butylbenzene	0.61	0.24	1.0	J	µg/L	1	8/4/2022 6:03:00 PM	R90019
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/4/2022 6:03:00 PM	R90019
Xylenes, Total	1.5	0.37	1.5	J	µg/L	1	8/4/2022 6:03:00 PM	R90019
Surr: 1,2-Dichloroethane-d4	111	0	70-130		%Rec	1	8/4/2022 6:03:00 PM	R90019
Surr: 4-Bromofluorobenzene	97.1	0	70-130		%Rec	1	8/4/2022 6:03:00 PM	R90019
Surr: Dibromofluoromethane	102	0	70-130		%Rec	1	8/4/2022 6:03:00 PM	R90019
Surr: Toluene-d8	96.3	0	70-130		%Rec	1	8/4/2022 6:03:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-009B

Client Sample ID: MW-31
Collection Date: 8/2/2022 11:05:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	1.5	0.016	0.064		mg/L	1	8/16/2022 1:39:32 PM	69247
Motor Oil Range Organics (MRO)	0.94	0.052	0.080		mg/L	1	8/16/2022 1:39:32 PM	69247
Surr: DNOP	136	0	42.2-138		%Rec	1	8/16/2022 1:39:32 PM	69247

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-009C

Client Sample ID: MW-31
Collection Date: 8/2/2022 11:05:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.27	0.23	0.50	J	mg/L	5	8/4/2022 12:15:44 AM	A90013
Chloride	160	5.0	10		mg/L	20	8/4/2022 12:28:35 AM	A90013
Nitrogen, Nitrite (As N)	ND	0.057	0.50		mg/L	5	8/4/2022 12:15:44 AM	A90013
Bromide	3.2	0.25	0.50		mg/L	5	8/4/2022 12:15:44 AM	A90013
Nitrogen, Nitrate (As N)	ND	0.10	0.50		mg/L	5	8/4/2022 12:15:44 AM	A90013
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5		mg/L	5	8/4/2022 12:15:44 AM	A90013
Sulfate	120	1.2	2.5		mg/L	5	8/4/2022 12:15:44 AM	A90013
CARBON DIOXIDE							Analyst: **JTT**	
Total Carbon Dioxide	970	0	1.0	H	mg CO2/	1	8/23/2022 3:30:00 AM	R90490
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	1127	20.00	20.00		mg/L Ca	1	8/8/2022 5:13:36 PM	R90100
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/8/2022 5:13:36 PM	R90100
Total Alkalinity (as CaCO3)	1127	20.00	20.00		mg/L Ca	1	8/8/2022 5:13:36 PM	R90100
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	1760	200	200	*D	mg/L	1	8/8/2022 8:10:00 AM	69283

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-009D

Client Sample ID: MW-31
Collection Date: 8/2/2022 11:05:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	0.58	0.0016	0.0030		mg/L	1	8/9/2022 12:05:36 PM	69312
Cadmium	ND	0.0018	0.0020		mg/L	1	8/9/2022 12:05:36 PM	69312
Chromium	ND	0.0020	0.0060		mg/L	1	8/9/2022 12:05:36 PM	69312
Silver	ND	0.0018	0.0050		mg/L	1	8/9/2022 12:05:36 PM	69312
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.00091	0.00013	0.0010	J	mg/L	1	8/11/2022 1:54:57 PM	69312
Lead	ND	0.00031	0.0025		mg/L	5	8/11/2022 4:00:08 PM	69312
Selenium	ND	0.00037	0.0010		mg/L	1	8/11/2022 1:54:57 PM	69312
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 1:10:56 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-31
Project: MPC Full Terminal
Collection Date: 8/2/2022 11:05:00 AM
Lab ID: 2208155-009E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.53	0.0011	0.0020		mg/L	1	8/23/2022 12:34:46 PM	B90525
Cadmium	ND	0.00098	0.0020		mg/L	1	8/23/2022 12:34:46 PM	B90525
Calcium	89	0.11	1.0		mg/L	1	8/23/2022 12:34:46 PM	B90525
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 12:34:46 PM	B90525
Iron	0.015	0.010	0.020	J	mg/L	1	8/23/2022 12:34:46 PM	B90525
Magnesium	34	0.067	1.0		mg/L	1	8/23/2022 12:34:46 PM	B90525
Manganese	0.34	0.00058	0.0020	*	mg/L	1	8/23/2022 12:34:46 PM	B90525
Potassium	3.1	0.16	1.0		mg/L	1	8/23/2022 12:34:46 PM	B90525
Silver	0.0019	0.0013	0.0050	J	mg/L	1	8/23/2022 12:34:46 PM	B90525
Sodium	520	3.3	10		mg/L	10	8/25/2022 3:52:22 PM	B90598
Zinc	0.0053	0.0032	0.010	J	mg/L	1	8/23/2022 12:34:46 PM	B90525
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.0013	0.00012	0.0010		mg/L	1	8/3/2022 3:09:13 PM	B90003
Copper	ND	0.00037	0.0010		mg/L	1	8/3/2022 3:09:13 PM	B90003
Lead	ND	0.000057	0.00050		mg/L	1	8/3/2022 3:09:13 PM	B90003
Selenium	0.00086	0.00034	0.0010	J	mg/L	1	8/3/2022 3:09:13 PM	B90003
Uranium	0.00021	0.000065	0.00050	J	mg/L	1	8/3/2022 3:09:13 PM	B90003
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 1:13:05 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-63
Project: MPC Full Terminal
Collection Date: 8/2/2022 12:05:00 PM
Lab ID: 2208155-010A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/4/2022 5:41:39 PM	A90015
Surr: BFB	106	0	70-130		%Rec	1	8/4/2022 5:41:39 PM	A90015
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Toluene	ND	0.20	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Methyl tert-butyl ether (MTBE)	0.52	0.39	1.0	J	µg/L	1	8/4/2022 6:27:00 PM	R90019
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Naphthalene	ND	0.50	2.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Acetone	6.6	2.5	10	J	µg/L	1	8/4/2022 6:27:00 PM	R90019
Bromobenzene	ND	0.28	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Bromoform	ND	0.31	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Bromomethane	ND	0.85	3.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
2-Butanone	ND	2.0	10		µg/L	1	8/4/2022 6:27:00 PM	R90019
Carbon disulfide	ND	0.59	10		µg/L	1	8/4/2022 6:27:00 PM	R90019
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Chloroethane	ND	0.38	2.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Chloroform	ND	0.13	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Chloromethane	ND	0.41	3.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Dibromomethane	ND	0.31	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-63
Project: MPC Full Terminal
Collection Date: 8/2/2022 12:05:00 PM
Lab ID: 2208155-010A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
2-Hexanone	ND	1.8	10		µg/L	1	8/4/2022 6:27:00 PM	R90019
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/4/2022 6:27:00 PM	R90019
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Styrene	ND	0.14	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/4/2022 6:27:00 PM	R90019
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/4/2022 6:27:00 PM	R90019
Surr: 1,2-Dichloroethane-d4	114	0	70-130		%Rec	1	8/4/2022 6:27:00 PM	R90019
Surr: 4-Bromofluorobenzene	101	0	70-130		%Rec	1	8/4/2022 6:27:00 PM	R90019
Surr: Dibromofluoromethane	105	0	70-130		%Rec	1	8/4/2022 6:27:00 PM	R90019
Surr: Toluene-d8	92.7	0	70-130		%Rec	1	8/4/2022 6:27:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-010C

Client Sample ID: MW-63
Collection Date: 8/2/2022 12:05:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.015	0.0011	0.0020		mg/L	1	8/23/2022 2:39:19 PM	C90525
Cadmium	ND	0.00098	0.0020		mg/L	1	8/23/2022 2:39:19 PM	C90525
Calcium	530	1.1	10		mg/L	10	8/25/2022 3:54:18 PM	B90598
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 2:39:19 PM	C90525
Iron	0.027	0.010	0.020		mg/L	1	8/23/2022 2:39:19 PM	C90525
Magnesium	170	0.34	5.0		mg/L	5	8/23/2022 2:41:31 PM	C90525
Manganese	0.017	0.00058	0.0020		mg/L	1	8/23/2022 2:39:19 PM	C90525
Potassium	5.2	0.16	1.0		mg/L	1	8/23/2022 2:39:19 PM	C90525
Silver	0.010	0.0013	0.0050		mg/L	1	8/23/2022 2:39:19 PM	C90525
Sodium	690	3.3	10		mg/L	10	8/25/2022 3:54:18 PM	B90598
Zinc	0.012	0.0032	0.010		mg/L	1	8/23/2022 2:39:19 PM	C90525
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.0014	0.00061	0.0050	J	mg/L	5	8/4/2022 1:58:13 PM	A90020
Copper	0.0023	0.0018	0.0050	J	mg/L	5	8/4/2022 1:58:13 PM	A90020
Lead	ND	0.00028	0.0025		mg/L	5	8/4/2022 1:58:13 PM	A90020
Selenium	0.042	0.0017	0.0050		mg/L	5	8/3/2022 4:51:18 PM	B90003
Uranium	0.033	0.00033	0.0025	*	mg/L	5	8/4/2022 1:58:13 PM	A90020
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	0.00010	0.000091	0.00020	J	mg/L	1	8/12/2022 1:15:16 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-64
Project: MPC Full Terminal
Collection Date: 8/2/2022 1:15:00 PM
Lab ID: 2208155-011A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/4/2022 6:05:31 PM	A90015
Surr: BFB	106	0	70-130		%Rec	1	8/4/2022 6:05:31 PM	A90015
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Toluene	ND	0.20	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Naphthalene	ND	0.50	2.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Acetone	8.4	2.5	10	J	µg/L	1	8/4/2022 6:50:00 PM	R90019
Bromobenzene	ND	0.28	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Bromoform	ND	0.31	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Bromomethane	ND	0.85	3.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
2-Butanone	ND	2.0	10		µg/L	1	8/4/2022 6:50:00 PM	R90019
Carbon disulfide	ND	0.59	10		µg/L	1	8/4/2022 6:50:00 PM	R90019
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Chloroethane	ND	0.38	2.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Chloroform	ND	0.13	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Chloromethane	ND	0.41	3.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Dibromomethane	ND	0.31	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-64
Project: MPC Full Terminal
Collection Date: 8/2/2022 1:15:00 PM
Lab ID: 2208155-011A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
2-Hexanone	ND	1.8	10		µg/L	1	8/4/2022 6:50:00 PM	R90019
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/4/2022 6:50:00 PM	R90019
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Styrene	ND	0.14	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/4/2022 6:50:00 PM	R90019
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/4/2022 6:50:00 PM	R90019
Surr: 1,2-Dichloroethane-d4	112	0	70-130		%Rec	1	8/4/2022 6:50:00 PM	R90019
Surr: 4-Bromofluorobenzene	98.2	0	70-130		%Rec	1	8/4/2022 6:50:00 PM	R90019
Surr: Dibromofluoromethane	106	0	70-130		%Rec	1	8/4/2022 6:50:00 PM	R90019
Surr: Toluene-d8	93.5	0	70-130		%Rec	1	8/4/2022 6:50:00 PM	R90019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-011B

Client Sample ID: MW-64
Collection Date: 8/2/2022 1:15:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	0.074	0.016	0.064		mg/L	1	8/16/2022 2:03:25 PM	69247
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/16/2022 2:03:25 PM	69247
Surr: DNOP	142	0	42.2-138	S	%Rec	1	8/16/2022 2:03:25 PM	69247

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-64
Project: MPC Full Terminal
Collection Date: 8/2/2022 1:15:00 PM
Lab ID: 2208155-011C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.054	0.046	0.10	J	mg/L	1	8/4/2022 12:41:27 AM	A90013
Chloride	760	25	50	*	mg/L	100	8/23/2022 3:44:06 PM	R90519
Nitrogen, Nitrite (As N)	ND	0.23	2.0		mg/L	20	8/4/2022 1:20:04 AM	A90013
Bromide	2.4	0.050	0.10		mg/L	1	8/4/2022 12:41:27 AM	A90013
Nitrogen, Nitrate (As N)	38	0.40	2.0	*	mg/L	20	8/4/2022 1:20:04 AM	A90013
Phosphorus, Orthophosphate (As P)	ND	5.0	10		mg/L	20	8/4/2022 1:20:04 AM	A90013
Sulfate	1200	25	50	*	mg/L	100	8/23/2022 3:44:06 PM	R90519
CARBON DIOXIDE							Analyst: **JTT**	
Total Carbon Dioxide	280	0	1.0	H	mg CO2/	1	8/23/2022 4:06:00 AM	R90490
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	299.0	20.00	20.00		mg/L Ca	1	8/8/2022 5:52:16 PM	R90100
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/8/2022 5:52:16 PM	R90100
Total Alkalinity (as CaCO3)	299.0	20.00	20.00		mg/L Ca	1	8/8/2022 5:52:16 PM	R90100
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	3540	20.0	20.0	*	mg/L	1	8/8/2022 8:10:00 AM	69283

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: MPC Full Terminal
Lab ID: 2208155-011D

Client Sample ID: MW-64
Collection Date: 8/2/2022 1:15:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **JRR**	
Barium	0.012	0.0016	0.0030		mg/L	1	8/22/2022 9:55:45 AM	A90470
Cadmium	ND	0.0018	0.0020		mg/L	1	8/22/2022 9:55:45 AM	A90470
Chromium	ND	0.0020	0.0060		mg/L	1	8/22/2022 9:55:45 AM	A90470
Silver	0.0079	0.0018	0.0050		mg/L	1	8/22/2022 9:55:45 AM	A90470
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0013	0.00063	0.0050	J	mg/L	5	8/4/2022 2:44:05 PM	B90020
Lead	ND	0.00031	0.0025		mg/L	5	8/4/2022 2:44:05 PM	B90020
Selenium	0.027	0.0019	0.0050		mg/L	5	8/4/2022 2:44:05 PM	B90020
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	0.000093	0.000091	0.00020	J	mg/L	1	8/12/2022 1:17:25 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208155**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-64
Project: MPC Full Terminal
Collection Date: 8/2/2022 1:15:00 PM
Lab ID: 2208155-011E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	ND	0.011	0.020		mg/L	10	8/23/2022 2:43:35 PM	C90525
Cadmium	0.012	0.0098	0.020	J*	mg/L	10	8/23/2022 2:43:35 PM	C90525
Calcium	140	1.1	10		mg/L	10	8/23/2022 2:43:35 PM	C90525
Chromium	ND	0.020	0.060		mg/L	10	8/23/2022 2:43:35 PM	C90525
Iron	0.15	0.10	0.20	J	mg/L	10	8/23/2022 2:43:35 PM	C90525
Magnesium	45	0.67	10		mg/L	10	8/23/2022 2:43:35 PM	C90525
Manganese	12	0.058	0.20	*	mg/L	100	8/23/2022 2:45:39 PM	C90525
Potassium	2.4	1.6	10	J	mg/L	10	8/23/2022 2:43:35 PM	C90525
Silver	ND	0.013	0.050		mg/L	10	8/23/2022 2:43:35 PM	C90525
Sodium	30	3.3	10		mg/L	10	8/23/2022 2:43:35 PM	C90525
Zinc	2.4	0.032	0.10		mg/L	10	8/23/2022 2:43:35 PM	C90525
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.0019	0.00061	0.0050	J	mg/L	5	8/3/2022 4:53:59 PM	B90003
Copper	ND	0.0018	0.0050		mg/L	5	8/3/2022 4:53:59 PM	B90003
Lead	ND	0.00028	0.0025		mg/L	5	8/4/2022 2:00:54 PM	A90020
Selenium	0.025	0.0017	0.0050		mg/L	5	8/3/2022 4:53:59 PM	B90003
Uranium	0.010	0.00033	0.0025		mg/L	5	8/4/2022 2:00:54 PM	A90020
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	0.000094	0.000091	0.00020	J	mg/L	1	8/12/2022 1:19:34 PM	69446

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**

12-Sep-22

Client: AECOM

Project: MPC Full Terminal

Sample ID: **2208155-001DMS** SampType: **MS** TestCode: **EPA Method 200.7: Metals**
Client ID: **MW-76** Batch ID: **69312** RunNo: **90132**
Prep Date: **8/8/2022** Analysis Date: **8/9/2022** SeqNo: **3213148** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.50	0.0020	0.5000	0	99.5	70	130			
Chromium	0.52	0.0060	0.5000	0	105	70	130			
Silver	0.10	0.0050	0.1000	0	105	70	130			

Sample ID: **2208155-001DMSD** SampType: **MSD** TestCode: **EPA Method 200.7: Metals**
Client ID: **MW-76** Batch ID: **69312** RunNo: **90132**
Prep Date: **8/8/2022** Analysis Date: **8/9/2022** SeqNo: **3213149** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.50	0.0020	0.5000	0	100	70	130	0.857	20	
Chromium	0.53	0.0060	0.5000	0	105	70	130	0.229	20	
Silver	0.10	0.0050	0.1000	0	105	70	130	0.410	20	

Sample ID: **MB-69312** SampType: **MBLK** TestCode: **EPA Method 200.7: Metals**
Client ID: **PBW** Batch ID: **69312** RunNo: **90132**
Prep Date: **8/8/2022** Analysis Date: **8/9/2022** SeqNo: **3213188** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0030								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Silver	ND	0.0050								

Sample ID: **LCSLL-69312** SampType: **LCSLL** TestCode: **EPA Method 200.7: Metals**
Client ID: **BatchQC** Batch ID: **69312** RunNo: **90132**
Prep Date: **8/8/2022** Analysis Date: **8/9/2022** SeqNo: **3213189** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0019	0.0030	0.002000	0	95.4	50	150			J
Cadmium	0.0017	0.0020	0.002000	0	86.1	50	150			J
Chromium	0.0057	0.0060	0.006000	0	95.0	50	150			J
Silver	0.0049	0.0050	0.005000	0	97.2	50	150			J

Sample ID: **LCS-69312** SampType: **LCS** TestCode: **EPA Method 200.7: Metals**
Client ID: **LCSW** Batch ID: **69312** RunNo: **90132**
Prep Date: **8/8/2022** Analysis Date: **8/9/2022** SeqNo: **3213190** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0030	0.5000	0	99.1	85	115			
Cadmium	0.49	0.0020	0.5000	0	97.9	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **LCS-69312** SampType: **LCS** TestCode: **EPA Method 200.7: Metals**
Client ID: **LCSW** Batch ID: **69312** RunNo: **90132**
Prep Date: **8/8/2022** Analysis Date: **8/9/2022** SeqNo: **3213190** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.50	0.0060	0.5000	0	100	85	115			
Silver	0.099	0.0050	0.1000	0	99.0	85	115			

Sample ID: **MB-A** SampType: **MBLK** TestCode: **EPA Method 200.7: Metals**
Client ID: **PBW** Batch ID: **A90470** RunNo: **90470**
Prep Date: Analysis Date: **8/22/2022** SeqNo: **3228999** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0030								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Silver	ND	0.0050								

Sample ID: **LCSLL-A** SampType: **LCSLL** TestCode: **EPA Method 200.7: Metals**
Client ID: **BatchQC** Batch ID: **A90470** RunNo: **90470**
Prep Date: Analysis Date: **8/22/2022** SeqNo: **3229000** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0022	0.0030	0.002000	0	111	50	150			J
Cadmium	0.0020	0.0020	0.002000	0	98.1	50	150			J
Chromium	0.0059	0.0060	0.006000	0	99.0	50	150			J
Silver	0.0044	0.0050	0.005000	0	87.4	50	150			J

Sample ID: **LCS-A** SampType: **LCS** TestCode: **EPA Method 200.7: Metals**
Client ID: **LCSW** Batch ID: **A90470** RunNo: **90470**
Prep Date: Analysis Date: **8/22/2022** SeqNo: **3229001** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.48	0.0030	0.5000	0	96.1	85	115			
Cadmium	0.48	0.0020	0.5000	0	95.9	85	115			
Chromium	0.48	0.0060	0.5000	0	96.1	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			

Sample ID: **2208155-005DMS** SampType: **MS** TestCode: **EPA Method 200.7: Metals**
Client ID: **MW-53** Batch ID: **A90470** RunNo: **90470**
Prep Date: Analysis Date: **8/22/2022** SeqNo: **3229024** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0030	0.5000	0.01452	96.3	70	130			
Cadmium	0.49	0.0020	0.5000	0	97.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **2208155-005DMS** SampType: **MS** TestCode: **EPA Method 200.7: Metals**
Client ID: **MW-53** Batch ID: **A90470** RunNo: **90470**
Prep Date: Analysis Date: **8/22/2022** SeqNo: **3229024** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.47	0.0060	0.5000	0	94.9	70	130			
Silver	0.11	0.0050	0.1000	0.006113	103	70	130			

Sample ID: **2208155-005DMSD** SampType: **MSD** TestCode: **EPA Method 200.7: Metals**
Client ID: **MW-53** Batch ID: **A90470** RunNo: **90470**
Prep Date: Analysis Date: **8/22/2022** SeqNo: **3229025** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0030	0.5000	0.01452	95.0	70	130	1.32	20	
Cadmium	0.48	0.0020	0.5000	0	96.5	70	130	0.786	20	
Chromium	0.47	0.0060	0.5000	0	93.9	70	130	1.07	20	
Silver	0.11	0.0050	0.1000	0.006113	102	70	130	0.914	20	

Sample ID: **MB-A** SampType: **MBLK** TestCode: **EPA Method 200.7: Metals**
Client ID: **PBW** Batch ID: **A90598** RunNo: **90598**
Prep Date: Analysis Date: **8/25/2022** SeqNo: **3236760** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	0.050								
Manganese	ND	0.0020								
Sodium	ND	1.0								

Sample ID: **LLLCS-A** SampType: **LCSLL** TestCode: **EPA Method 200.7: Metals**
Client ID: **BatchQC** Batch ID: **A90598** RunNo: **90598**
Prep Date: Analysis Date: **8/25/2022** SeqNo: **3236761** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.019	0.050	0.02000	0	95.6	50	150			J
Manganese	0.0019	0.0020	0.002000	0	97.5	50	150			J
Sodium	0.38	1.0	0.5000	0	76.2	50	150			J

Sample ID: **LCS-A** SampType: **LCS** TestCode: **EPA Method 200.7: Metals**
Client ID: **LCSW** Batch ID: **A90598** RunNo: **90598**
Prep Date: Analysis Date: **8/25/2022** SeqNo: **3236762** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.50	0.050	0.5000	0	99.4	85	115			
Manganese	0.49	0.0020	0.5000	0	97.8	85	115			
Sodium	51	1.0	50.00	0	102	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **MB-A**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A90470**	RunNo: **90470**
Prep Date:	Analysis Date: **8/22/2022**	SeqNo: **3229002** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Silver	ND	0.0050								

Sample ID: **LCSLL-A**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **A90470**	RunNo: **90470**
Prep Date:	Analysis Date: **8/22/2022**	SeqNo: **3229003** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0022	0.0020	0.002000	0	111	50	150			
Cadmium	0.0020	0.0020	0.002000	0	98.1	50	150			J
Chromium	0.0059	0.0060	0.006000	0	99.0	50	150			J
Silver	0.0044	0.0050	0.005000	0	87.4	50	150			J

Sample ID: **LCS-A**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A90470**	RunNo: **90470**
Prep Date:	Analysis Date: **8/22/2022**	SeqNo: **3229005** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.48	0.0020	0.5000	0	96.1	85	115			
Cadmium	0.48	0.0020	0.5000	0	95.9	85	115			
Chromium	0.48	0.0060	0.5000	0	96.1	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			

Sample ID: **MB-A**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A90525**	RunNo: **90525**
Prep Date:	Analysis Date: **8/23/2022**	SeqNo: **3232956** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **MB-A** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW** Batch ID: **A90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3232956** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Zinc	ND	0.010								

Sample ID: **LCSLL-A** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **A90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3232957** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0021	0.0020	0.002000	0	103	50	150			
Cadmium	0.0023	0.0020	0.002000	0	115	50	150			
Calcium	0.52	1.0	0.5000	0	105	50	150			J
Chromium	0.0051	0.0060	0.006000	0	85.1	50	150			J
Iron	0.020	0.020	0.02000	0	99.8	50	150			J
Magnesium	0.51	1.0	0.5000	0	102	50	150			J
Manganese	0.0019	0.0020	0.002000	0	97.4	50	150			J
Potassium	0.49	1.0	0.5000	0	98.3	50	150			J
Silver	0.0047	0.0050	0.005000	0	93.1	50	150			J
Sodium	0.34	1.0	0.5000	0	68.6	50	150			J
Zinc	0.011	0.010	0.01000	0	111	50	150			

Sample ID: **LCS-A** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **A90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3232958** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0020	0.5000	0	99.3	85	115			
Cadmium	0.50	0.0020	0.5000	0	101	85	115			
Calcium	50	1.0	50.00	0	101	85	115			
Chromium	0.50	0.0060	0.5000	0	100	85	115			
Iron	0.50	0.020	0.5000	0	100	85	115			
Magnesium	50	1.0	50.00	0	99.8	85	115			
Manganese	0.49	0.0020	0.5000	0	97.3	85	115			
Potassium	49	1.0	50.00	0	97.7	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			
Sodium	50	1.0	50.00	0	99.0	85	115			
Zinc	0.50	0.010	0.5000	0	99.5	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **MB-B**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **B90525**	RunNo: **90525**
Prep Date:	Analysis Date: **8/23/2022**	SeqNo: **3232959** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								
Zinc	ND	0.010								

Sample ID: **LCSLL-B**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **B90525**	RunNo: **90525**
Prep Date:	Analysis Date: **8/23/2022**	SeqNo: **3232960** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0022	0.0020	0.002000	0	109	50	150			
Cadmium	0.0023	0.0020	0.002000	0	117	50	150			
Calcium	0.52	1.0	0.5000	0	103	50	150			J
Chromium	0.0061	0.0060	0.006000	0	102	50	150			
Iron	0.019	0.020	0.02000	0	95.6	50	150			J
Magnesium	0.51	1.0	0.5000	0	103	50	150			J
Manganese	0.0020	0.0020	0.002000	0	102	50	150			
Potassium	0.47	1.0	0.5000	0	94.6	50	150			J
Silver	0.0049	0.0050	0.005000	0	97.9	50	150			J
Sodium	0.36	1.0	0.5000	0	72.9	50	150			J
Zinc	0.011	0.010	0.01000	0	110	50	150			

Sample ID: **LCS-B**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **B90525**	RunNo: **90525**
Prep Date:	Analysis Date: **8/23/2022**	SeqNo: **3232961** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	98.2	85	115			
Cadmium	0.50	0.0020	0.5000	0	99.2	85	115			
Calcium	51	1.0	50.00	0	102	85	115			
Chromium	0.49	0.0060	0.5000	0	98.9	85	115			
Iron	0.50	0.020	0.5000	0	100	85	115			
Magnesium	50	1.0	50.00	0	101	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **LCS-B**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **B90525**	RunNo: **90525**
Prep Date:	Analysis Date: **8/23/2022**	SeqNo: **3232961** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	0.48	0.0020	0.5000	0	96.8	85	115			
Potassium	49	1.0	50.00	0	98.6	85	115			
Silver	0.10	0.0050	0.1000	0	99.8	85	115			
Sodium	50	1.0	50.00	0	99.4	85	115			
Zinc	0.49	0.010	0.5000	0	98.4	85	115			

Sample ID: **MB-C**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **C90525**	RunNo: **90525**
Prep Date:	Analysis Date: **8/23/2022**	SeqNo: **3234015** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								
Zinc	ND	0.010								

Sample ID: **LCSLL-C**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **C90525**	RunNo: **90525**
Prep Date:	Analysis Date: **8/23/2022**	SeqNo: **3234016** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0017	0.0020	0.002000	0	87.4	50	150			J
Cadmium	0.0024	0.0020	0.002000	0	119	50	150			
Calcium	0.51	1.0	0.5000	0	103	50	150			J
Chromium	0.0066	0.0060	0.006000	0	110	50	150			
Iron	0.025	0.020	0.02000	0	124	50	150			
Magnesium	0.51	1.0	0.5000	0	102	50	150			J
Manganese	0.0020	0.0020	0.002000	0	101	50	150			
Potassium	0.48	1.0	0.5000	0	95.8	50	150			J
Silver	0.0051	0.0050	0.005000	0	103	50	150			
Sodium	0.58	1.0	0.5000	0	116	50	150			J
Zinc	0.0099	0.010	0.01000	0	99.0	50	150			J

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **LCS-C**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **C90525**	RunNo: **90525**
Prep Date:	Analysis Date: **8/23/2022**	SeqNo: **3234017** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0020	0.5000	0	100	85	115			
Cadmium	0.52	0.0020	0.5000	0	103	85	115			
Calcium	50	1.0	50.00	0	101	85	115			
Chromium	0.51	0.0060	0.5000	0	102	85	115			
Iron	0.50	0.020	0.5000	0	101	85	115			
Magnesium	50	1.0	50.00	0	100	85	115			
Manganese	0.50	0.0020	0.5000	0	99.7	85	115			
Potassium	50	1.0	50.00	0	99.6	85	115			
Silver	0.11	0.0050	0.1000	0	107	85	115			
Sodium	50	1.0	50.00	0	99.9	85	115			
Zinc	0.50	0.010	0.5000	0	101	85	115			

Sample ID: **MB-A**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A90598**	RunNo: **90598**
Prep Date:	Analysis Date: **8/25/2022**	SeqNo: **3236757** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	0.020								
Manganese	ND	0.0020								
Sodium	ND	1.0								

Sample ID: **LLLCS-A**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **A90598**	RunNo: **90598**
Prep Date:	Analysis Date: **8/25/2022**	SeqNo: **3236758** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.019	0.020	0.02000	0	95.6	50	150			J
Manganese	0.0019	0.0020	0.002000	0	97.5	50	150			J
Sodium	0.38	1.0	0.5000	0	76.2	50	150			J

Sample ID: **LCS-A**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A90598**	RunNo: **90598**
Prep Date:	Analysis Date: **8/25/2022**	SeqNo: **3236759** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.50	0.020	0.5000	0	99.4	85	115			
Manganese	0.49	0.0020	0.5000	0	97.8	85	115			
Sodium	51	1.0	50.00	0	102	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **MB-B** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW** Batch ID: **B90598** RunNo: **90598**
Prep Date: Analysis Date: **8/25/2022** SeqNo: **3236763** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Sodium	ND	1.0								

Sample ID: **LLLCS-B** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **B90598** RunNo: **90598**
Prep Date: Analysis Date: **8/25/2022** SeqNo: **3236764** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.53	1.0	0.5000	0	105	50	150			J
Sodium	0.41	1.0	0.5000	0	81.9	50	150			J

Sample ID: **LCS-B** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **B90598** RunNo: **90598**
Prep Date: Analysis Date: **8/25/2022** SeqNo: **3236765** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	51	1.0	50.00	0	103	85	115			
Sodium	52	1.0	50.00	0	103	85	115			

Sample ID: **MB-A** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW** Batch ID: **A90845** RunNo: **90845**
Prep Date: Analysis Date: **9/6/2022** SeqNo: **3247434** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	1.0								

Sample ID: **LCSLL-A** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **A90845** RunNo: **90845**
Prep Date: Analysis Date: **9/6/2022** SeqNo: **3247435** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	0.47	1.0	0.5000	0	94.6	50	150			J

Sample ID: **LCS-A** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **A90845** RunNo: **90845**
Prep Date: Analysis Date: **9/6/2022** SeqNo: **3247436** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	53	1.0	50.00	0	106	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA 200.8: Metals**							
Client ID: **PBW**	Batch ID: **B90003**	RunNo: **90003**							
Prep Date:	Analysis Date: **8/3/2022**	SeqNo: **3207008**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Copper	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Uranium	ND	0.00050								

Sample ID: **LCSLL**	SampType: **LCSLL**	TestCode: **EPA 200.8: Metals**							
Client ID: **BatchQC**	Batch ID: **B90003**	RunNo: **90003**							
Prep Date:	Analysis Date: **8/3/2022**	SeqNo: **3207009**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0011	0.0010	0.001000	0	108	50	150			
Copper	0.0011	0.0010	0.001000	0	105	50	150			
Lead	0.00052	0.00050	0.0005000	0	104	50	150			
Selenium	0.00074	0.0010	0.001000	0	73.9	50	150			J
Uranium	0.00052	0.00050	0.0005000	0	103	50	150			

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA 200.8: Metals**							
Client ID: **LCSW**	Batch ID: **B90003**	RunNo: **90003**							
Prep Date:	Analysis Date: **8/3/2022**	SeqNo: **3207010**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.024	0.0010	0.02500	0	95.2	85	115			
Copper	0.024	0.0010	0.02500	0	96.6	85	115			
Lead	0.012	0.00050	0.01250	0	96.5	85	115			
Selenium	0.022	0.0010	0.02500	0	89.8	85	115			
Uranium	0.012	0.00050	0.01250	0	97.0	85	115			

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA 200.8: Metals**							
Client ID: **PBW**	Batch ID: **B90020**	RunNo: **90020**							
Prep Date:	Analysis Date: **8/4/2022**	SeqNo: **3208101**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**

12-Sep-22

Client: AECOM

Project: MPC Full Terminal

Sample ID: **LCSLL**	SampType: **LCSLL**	TestCode: **EPA 200.8: Metals**							
Client ID: **BatchQC**	Batch ID: **B90020**	RunNo: **90020**							
Prep Date:	Analysis Date: **8/4/2022**	SeqNo: **3208102**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00096	0.0010	0.001000	0	95.6	50	150			J
Lead	0.00049	0.00050	0.0005000	0	97.6	50	150			J
Selenium	0.00086	0.0010	0.001000	0	85.5	50	150			J

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA 200.8: Metals**							
Client ID: **LCSW**	Batch ID: **B90020**	RunNo: **90020**							
Prep Date:	Analysis Date: **8/4/2022**	SeqNo: **3208103**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.023	0.0010	0.02500	0	91.4	85	115			
Lead	0.012	0.00050	0.01250	0	93.0	85	115			
Selenium	0.021	0.0010	0.02500	0	85.6	85	115			

Sample ID: **2208155-011DMSLL**	SampType: **MS**	TestCode: **EPA 200.8: Metals**							
Client ID: **MW-64**	Batch ID: **B90020**	RunNo: **90020**							
Prep Date:	Analysis Date: **8/4/2022**	SeqNo: **3208172**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.13	0.0050	0.1250	0.001317	99.9	70	130			
Lead	0.053	0.0025	0.06250	0	84.2	70	130			
Selenium	0.14	0.0050	0.1250	0.02727	94.2	70	130			

Sample ID: **2208155-011DMSDL**	SampType: **MSD**	TestCode: **EPA 200.8: Metals**							
Client ID: **MW-64**	Batch ID: **B90020**	RunNo: **90020**							
Prep Date:	Analysis Date: **8/4/2022**	SeqNo: **3208173**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.13	0.0050	0.1250	0.001317	101	70	130	0.574	20	
Lead	0.052	0.0025	0.06250	0	83.8	70	130	0.421	20	
Selenium	0.15	0.0050	0.1250	0.02727	96.9	70	130	2.31	20	

Sample ID: **MB-69312**	SampType: **MBLK**	TestCode: **EPA 200.8: Metals**							
Client ID: **PBW**	Batch ID: **69312**	RunNo: **90209**							
Prep Date: **8/8/2022**	Analysis Date: **8/11/2022**	SeqNo: **3216997**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **MSLCSLL-69312**	SampType: **LCSLL**	TestCode: **EPA 200.8: Metals**							
Client ID: **BatchQC**	Batch ID: **69312**	RunNo: **90209**							
Prep Date: **8/8/2022**	Analysis Date: **8/11/2022**	SeqNo: **3216998**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0010	0.0010	0.001000	0	103	50	150			
Lead	0.00051	0.00050	0.0005000	0	102	50	150			
Selenium	0.00076	0.0010	0.001000	0	76.2	50	150			J

Sample ID: **MSLCS-69312**	SampType: **LCS**	TestCode: **EPA 200.8: Metals**							
Client ID: **LCSW**	Batch ID: **69312**	RunNo: **90209**							
Prep Date: **8/8/2022**	Analysis Date: **8/11/2022**	SeqNo: **3216999**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	100	85	115			
Lead	0.012	0.00050	0.01250	0	100	85	115			
Selenium	0.022	0.0010	0.02500	0	88.9	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A90020**	RunNo: **90020**
Prep Date:	Analysis Date: **8/4/2022**	SeqNo: **3208096** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Copper	ND	0.0010								
Lead	ND	0.00050								
Uranium	ND	0.00050								

Sample ID: **LCSLL**	SampType: **LCSLL**	TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **A90020**	RunNo: **90020**
Prep Date:	Analysis Date: **8/4/2022**	SeqNo: **3208097** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0011	0.0010	0.001000	0	115	50	150			
Copper	0.0010	0.0010	0.001000	0	104	50	150			
Lead	0.00049	0.00050	0.0005000	0	98.9	50	150			J
Uranium	0.00049	0.00050	0.0005000	0	97.8	50	150			J

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A90020**	RunNo: **90020**
Prep Date:	Analysis Date: **8/4/2022**	SeqNo: **3208099** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.023	0.0010	0.02500	0	91.6	85	115			
Copper	0.023	0.0010	0.02500	0	92.4	85	115			
Lead	0.012	0.00050	0.01250	0	92.9	85	115			
Uranium	0.011	0.00050	0.01250	0	91.6	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**

12-Sep-22

Client: AECOM

Project: MPC Full Terminal

Sample ID: **MB-69446** SampType: **MBLK** TestCode: **EPA Method 245.1: Mercury**
Client ID: **PBW** Batch ID: **69446** RunNo: **90238**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218254** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID: **LCS-69446** SampType: **LCS** TestCode: **EPA Method 245.1: Mercury**
Client ID: **LCSW** Batch ID: **69446** RunNo: **90238**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218258** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0052	0.00020	0.005000	0	103	85	115			

Sample ID: **LCSLL-69446** SampType: **LCSLL** TestCode: **EPA Method 245.1: Mercury**
Client ID: **BatchQC** Batch ID: **69446** RunNo: **90238**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218259** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00022	0.00020	0.0001500	0	148	50	150			

Sample ID: **2208155-005DMS** SampType: **MS** TestCode: **EPA Method 245.1: Mercury**
Client ID: **MW-53** Batch ID: **69446** RunNo: **90238**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218314** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	100	75	125			

Sample ID: **2208155-005DMSD** SampType: **MSD** TestCode: **EPA Method 245.1: Mercury**
Client ID: **MW-53** Batch ID: **69446** RunNo: **90238**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218315** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0048	0.00020	0.005000	0	95.6	75	125	4.71	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R90013**	RunNo: **90013**							
Prep Date:	Analysis Date: **8/3/2022**	SeqNo: **3207771**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R90013**	RunNo: **90013**							
Prep Date:	Analysis Date: **8/3/2022**	SeqNo: **3207772**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	102	90	110			
Chloride	4.8	0.50	5.000	0	95.2	90	110			
Bromide	2.5	0.10	2.500	0	99.0	90	110			
Phosphorus, Orthophosphate (As P	4.6	0.50	5.000	0	92.7	90	110			
Sulfate	10	0.50	10.00	0	103	90	110			

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **A90013**	RunNo: **90013**							
Prep Date:	Analysis Date: **8/3/2022**	SeqNo: **3207811**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **A90013**	RunNo: **90013**							
Prep Date:	Analysis Date: **8/3/2022**	SeqNo: **3207812**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.53	0.10	0.5000	0	106	90	110			
Chloride	4.8	0.50	5.000	0	96.2	90	110			
Nitrogen, Nitrite (As N)	1.0	0.10	1.000	0	100	90	110			
Bromide	2.5	0.10	2.500	0	101	90	110			
Nitrogen, Nitrate (As N)	2.6	0.10	2.500	0	104	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**

12-Sep-22

Client: AECOM

Project: MPC Full Terminal

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **A90013**	RunNo: **90013**
Prep Date:	Analysis Date: **8/3/2022**	SeqNo: **3207812** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus, Orthophosphate (As P	4.8	0.50	5.000	0	95.6	90	110			
Sulfate	10	0.50	10.00	0	103	90	110			

Sample ID: **2208155-011CMS**	SampType: **ms**	TestCode: **EPA Method 300.0: Anions**
Client ID: **MW-64**	Batch ID: **A90013**	RunNo: **90013**
Prep Date:	Analysis Date: **8/4/2022**	SeqNo: **3207832** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	4.7	0.10	2.500	2.384	94.3	91.2	106			

Sample ID: **2208155-011CMSD**	SampType: **msd**	TestCode: **EPA Method 300.0: Anions**
Client ID: **MW-64**	Batch ID: **A90013**	RunNo: **90013**
Prep Date:	Analysis Date: **8/4/2022**	SeqNo: **3207833** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	4.8	0.10	2.500	2.384	96.7	91.2	106	1.28	20	

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R90519**	RunNo: **90519**
Prep Date:	Analysis Date: **8/23/2022**	SeqNo: **3232499** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R90519**	RunNo: **90519**
Prep Date:	Analysis Date: **8/23/2022**	SeqNo: **3232502** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.5	90	110			
Sulfate	9.6	0.50	10.00	0	95.9	90	110			

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R90649**	RunNo: **90649**
Prep Date:	Analysis Date: **8/29/2022**	SeqNo: **3239448** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **LCS** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R90649** RunNo: **90649**
Prep Date: Analysis Date: **8/29/2022** SeqNo: **3239449** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.4	0.20	3.500	0	97.3	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**

12-Sep-22

Client: AECOM

Project: MPC Full Terminal

Sample ID: **MB-69247**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Diesel Range**							
Client ID: **PBW**	Batch ID: **69247**	RunNo: **90269**							
Prep Date: **8/4/2022**	Analysis Date: **8/16/2022**	SeqNo: **3220895**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.043	0.064								J
Motor Oil Range Organics (MRO)	ND	0.080								
Surr: DNOP	0.039		0.03750		103	42.2	138			

Sample ID: **LCS-69247**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Diesel Range**							
Client ID: **LCSW**	Batch ID: **69247**	RunNo: **90269**							
Prep Date: **8/4/2022**	Analysis Date: **8/16/2022**	SeqNo: **3221265**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.14	0.064	0.1875	0	75.3	31.7	75.4			
Surr: DNOP	0.018		0.01875		96.6	42.2	138			

Sample ID: **LCSD-69247**	SampType: **LCSD**	TestCode: **EPA Method 8015D Mod: Diesel Range**							
Client ID: **LCSS02**	Batch ID: **69247**	RunNo: **90269**							
Prep Date: **8/4/2022**	Analysis Date: **8/16/2022**	SeqNo: **3221266**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.16	0.064	0.1875	0	82.9	31.7	75.4	9.62	20	S
Surr: DNOP	0.019		0.01875		103	42.2	138	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBW**	Batch ID: **A90015**	RunNo: **90015**							
Prep Date:	Analysis Date: **8/4/2022**	SeqNo: **3208374**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	20		20.00		99.4	70	130			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSW**	Batch ID: **A90015**	RunNo: **90015**							
Prep Date:	Analysis Date: **8/4/2022**	SeqNo: **3208375**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.050	0.5000	0	105	80	120			
Surr: BFB	41		20.00		203	70	130			S

Sample ID: **2208155-003ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **MW-73**	Batch ID: **A90015**	RunNo: **90015**							
Prep Date:	Analysis Date: **8/4/2022**	SeqNo: **3208379**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	0.25	2.500	16.32	109	70	130			
Surr: BFB	330		100.0		331	70	130			S

Sample ID: **2208155-003amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **MW-73**	Batch ID: **A90015**	RunNo: **90015**							
Prep Date:	Analysis Date: **8/4/2022**	SeqNo: **3208380**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	0.25	2.500	16.32	112	70	130	0.398	20	
Surr: BFB	330		100.0		328	70	130	0	0	S

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSW**	Batch ID: **A90070**	RunNo: **90070**							
Prep Date:	Analysis Date: **8/5/2022**	SeqNo: **3210301**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.48	0.050	0.5000	0	95.1	80	120			
Surr: BFB	39		20.00		195	70	130			S

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBW**	Batch ID: **A90070**	RunNo: **90070**							
Prep Date:	Analysis Date: **8/5/2022**	SeqNo: **3210312**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW** Batch ID: **A90070** RunNo: **90070**
Prep Date: Analysis Date: **8/5/2022** SeqNo: **3210312** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	20		20.00		100	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**						
Client ID: **LCSW**	Batch ID: **R90019**	RunNo: **90019**						
Prep Date:	Analysis Date: **8/4/2022**	SeqNo: **3207932**	Units: **µg/L**					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	70	130			
Toluene	20	1.0	20.00	0	97.6	70	130			
Chlorobenzene	20	1.0	20.00	0	97.6	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	94.9	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	97.9	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.6		10.00		95.8	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**						
Client ID: **PBW**	Batch ID: **R90019**	RunNo: **90019**						
Prep Date:	Analysis Date: **8/4/2022**	SeqNo: **3207933**	Units: **µg/L**					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R90019**	RunNo: **90019**
Prep Date:	Analysis Date: **8/4/2022**	SeqNo: **3207933** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R90019** RunNo: **90019**
Prep Date: Analysis Date: **8/4/2022** SeqNo: **3207933** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		111	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.5		10.00		95.0	70	130			

Sample ID: **2208155-002ams** SampType: **MS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-44** Batch ID: **R90019** RunNo: **90019**
Prep Date: Analysis Date: **8/4/2022** SeqNo: **3208269** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	107	70	130			
Toluene	20	1.0	20.00	0	98.6	70	130			
Chlorobenzene	20	1.0	20.00	0	99.2	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	94.6	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	99.3	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		113	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.4		10.00		93.7	70	130			

Sample ID: **2208155-002amsd** SampType: **MSD** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-44** Batch ID: **R90019** RunNo: **90019**
Prep Date: Analysis Date: **8/4/2022** SeqNo: **3208270** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130	2.44	20	
Toluene	19	1.0	20.00	0	94.4	70	130	4.32	20	
Chlorobenzene	19	1.0	20.00	0	96.3	70	130	2.97	20	
1,1-Dichloroethene	18	1.0	20.00	0	90.9	70	130	3.93	20	
Trichloroethene (TCE)	20	1.0	20.00	0	98.5	70	130	0.789	20	
Surr: 1,2-Dichloroethane-d4	11		10.00		112	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		99.8	70	130	0	0	
Surr: Dibromofluoromethane	10		10.00		105	70	130	0	0	
Surr: Toluene-d8	9.3		10.00		93.2	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **mb-69277** SampType: **MBLK** TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBW** Batch ID: **69277** RunNo: **90363**
Prep Date: **8/5/2022** Analysis Date: **8/17/2022** SeqNo: **3223803** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Azobenzene	ND	10								
Benz(a)anthracene	ND	5.0								
Benzo(a)pyrene	ND	10								
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	5.0								
Benzo(k)fluoranthene	ND	10								
Benzoic acid	ND	20								
Benzyl alcohol	ND	5.0								
Bis(2-chloroethoxy)methane	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ether	ND	5.0								
Bis(2-ethylhexyl)phthalate	ND	10								
4-Bromophenyl phenyl ether	ND	10								
Butyl benzyl phthalate	ND	10								
Carbazole	ND	10								
4-Chloro-3-methylphenol	ND	5.0								
4-Chloroaniline	ND	5.0								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	5.0								
4-Chlorophenyl phenyl ether	ND	10								
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10								
Di-n-octyl phthalate	ND	20								
Dibenz(a,h)anthracene	ND	10								
Dibenzofuran	ND	10								
1,2-Dichlorobenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
3,3´-Dichlorobenzidine	ND	10								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
2,4-Dichlorophenol	ND	5.0								
2,4-Dimethylphenol	ND	10								
4,6-Dinitro-2-methylphenol	ND	10								
2,4-Dinitrophenol	ND	20								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **mb-69277**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBW**	Batch ID: **69277**	RunNo: **90363**
Prep Date: **8/5/2022**	Analysis Date: **8/17/2022**	SeqNo: **3223803** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	ND	5.0								
2,6-Dinitrotoluene	ND	10								
Fluoranthene	ND	10								
Fluorene	ND	10								
Hexachlorobenzene	ND	20								
Hexachlorobutadiene	ND	20								
Hexachlorocyclopentadiene	ND	20								
Hexachloroethane	ND	20								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	5.0								
1-Methylnaphthalene	ND	5.0								
2-Methylnaphthalene	ND	5.0								
2-Methylphenol	ND	10								
3+4-Methylphenol	ND	10								
N-Nitrosodi-n-propylamine	ND	5.0								
N-Nitrosodimethylamine	ND	5.0								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	5.0								
2-Nitroaniline	ND	10								
3-Nitroaniline	ND	10								
4-Nitroaniline	ND	5.0								
Nitrobenzene	ND	5.0								
2-Nitrophenol	ND	10								
4-Nitrophenol	ND	10								
Pentachlorophenol	ND	40								
Phenanthrene	ND	10								
Phenol	ND	20								
Pyrene	ND	10								
Pyridine	ND	40								
1,2,4-Trichlorobenzene	ND	5.0								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
Surr: 2-Fluorophenol	59		200.0		29.3	15	84.5			
Surr: Phenol-d5	45		200.0		22.4	15	67			
Surr: 2,4,6-Tribromophenol	72		200.0		35.8	15	108			
Surr: Nitrobenzene-d5	37		100.0		37.0	16.8	112			
Surr: 2-Fluorobiphenyl	36		100.0		36.0	15	101			
Surr: 4-Terphenyl-d14	57		100.0		57.2	34.4	134			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **lcs-69277** SampType: **LCS** TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSW** Batch ID: **69277** RunNo: **90363**
Prep Date: **8/5/2022** Analysis Date: **8/17/2022** SeqNo: **3223804** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	63	10	100.0	0	62.7	21.3	104			
4-Chloro-3-methylphenol	130	5.0	200.0	0	66.7	31.8	104			
2-Chlorophenol	130	5.0	200.0	0	67.1	26.9	105			
1,4-Dichlorobenzene	54	5.0	100.0	0	53.6	15	89.8			
2,4-Dinitrotoluene	55	5.0	100.0	0	55.0	22.9	92.4			
N-Nitrosodi-n-propylamine	64	5.0	100.0	0	63.7	33.2	98.8			
4-Nitrophenol	84	10	200.0	0	42.0	27.4	64.2			
Pentachlorophenol	110	40	200.0	0	56.7	37.6	93			
Phenol	79	20	200.0	0	39.5	17	61.1			
Pyrene	80	10	100.0	0	80.2	61	123			
1,2,4-Trichlorobenzene	54	5.0	100.0	0	54.0	15	91.7			
Surr: 2-Fluorophenol	90		200.0		44.9	15	84.5			
Surr: Phenol-d5	72		200.0		36.1	15	67			
Surr: 2,4,6-Tribromophenol	120		200.0		58.3	15	108			
Surr: Nitrobenzene-d5	63		100.0		63.3	16.8	112			
Surr: 2-Fluorobiphenyl	60		100.0		60.2	15	101			
Surr: 4-Terphenyl-d14	85		100.0		84.7	34.4	134			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**
12-Sep-22

Client: AECOM
Project: MPC Full Terminal

Sample ID: **mb-1 alk**	SampType: **mblk**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R90100**	RunNo: **90100**							
Prep Date:	Analysis Date: **8/8/2022**	SeqNo: **3212162**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-1 alk**	SampType: **lcs**	TestCode: **SM2320B: Alkalinity**							
Client ID: **LCSW**	Batch ID: **R90100**	RunNo: **90100**							
Prep Date:	Analysis Date: **8/8/2022**	SeqNo: **3212163**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	78.24	20.00	80.00	0	97.8	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208155**

12-Sep-22

Client: AECOM

Project: MPC Full Terminal

Sample ID: **MB-69283**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **69283**	RunNo: **90099**
Prep Date: **8/5/2022**	Analysis Date: **8/8/2022**	SeqNo: **3212138** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: **LCS-69283**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **69283**	RunNo: **90099**
Prep Date: **8/5/2022**	Analysis Date: **8/8/2022**	SeqNo: **3212139** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	80	120			

Sample ID: **2208155-009CDUP**	SampType: **DUP**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **MW-31**	Batch ID: **69283**	RunNo: **90099**
Prep Date: **8/5/2022**	Analysis Date: **8/8/2022**	SeqNo: **3212155** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1730	200						1.72	10	*D

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **AECOM** Work Order Number: **2208155** RcptNo: 1

Received By: **Juan Rojas** **8/3/2022 6:30:00 AM**

Completed By: **Cheyenne Cason** **8/3/2022 8:57:38 AM**

Reviewed By: TMC 8/3/22

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered?

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐ JN 8/3/22.
8. Was preservative added to bottles? Yes ☑ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☑ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: 28 (<2 or >12 unless noted)
Adjusted? yes
Checked by: JN 8/3/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks: 0.5ml of HNO3 was added to samples ovap for phc 2. JN 8/3/22

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Not Present			
2	1.6	Good	Not Present			
3	2.1	Good	Not Present			
4	0.6	Good	Not Present			

Released to Imaging: 11/21/2023 10:35:22 AM
Received by OCD: 5/15/2023 3:52:10 PM

Chain-of-Custody Record

Client: AECOM

Mailing Address: 6501 Americas Pkwy Suite 900, ABQ, NM 87110

Phone #: 505-699-3757

email or Fax#: sean.frederick@aecom.com

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: MAC Full Terminal

Project #: 142937

Project Manager: Eddie Hulbert

Sampler: S Frederick

On Ice: ☑ Yes ☐ No

# of Coolers: 4

Cooler Temp(including CF): See Remarks (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208155	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	sVOCs	CO_3, Anions, Alkalinity	TDS	Total Metals	Dissolved Metals	
8/1/22	1135	GW	MW-76	1L amb x2, 100mL HNO_3^{x2}, 500mL, VOA	HCl, HNO_3, H_2SO_4	001		X						X			X	X	X	X	X	
8/1/22	1540	GW	MW-44			002		X						X				X	X	X	X	
8/1/22	1420	GW	MW-73			003		X						X			X	X	X	X	X	
8/2/22	1135	GW	MW-52			004		X						X				X	X	X	X	
8/2/22	1040	GW	MW-53			005		X						X				X	X	X	X	
8/2/22	1335	GW	MW-29			006		X						X				X	X	X	X	
8/2/22	1335	GW	MW-29-FD			007		X						X				X	X	X	X	
8/2/22	1335	QC	MW-29-FB	5 VOA	5 VOA HCl	008		X GRO						X								
8/2/22	1105	GW	MW-31			009		X						X				X	X	X	X	
8/2/22	1205	GW	MW-63			010		GRO						X							X	
8/2/22	1315	GW	MW-64			011		X						X				X	X	X	X	
						~~012~~ Cancel 8/8/22																

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/2/22	1502	Sean Frederick	Chris Walker		8/2/22	1502
8/4/22	1804	Chris Walker		Courier	8/3/22	6:30

Remarks:
~~1.9-0=1.6~~ 1.9-0=1.9
1.6-0=1.6
2.1-0=2.1
0.6-0=0.6

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

TABLE 2
Analytical Methods and Target Analytes
Facility-Wide Groundwater Monitoring Plan - June 2018
Western Refining Southwest, Inc. - Bloomfield Refinery

VOCs (EPA Method 8260B) (1)
- Target List
  - *Benzene*
  - *Toluene*
  - *Ethylbenzene*
  - *Xylenes*
  - *Methyl tert butyl ether (MTBE)*

SVOCs - (EPA Method 8270)
- Method List

TPH-GRO (EPA Method 8015B)
- Gasoline Range Organics

TPH-DRO (EPA Method 8015B)
- Diesel Range Organics
- Motor Oil Range Organics

Total Carbon Dioxide (Laboratory Calculated)
- Dissolved CO2

Specific Conductivity (EPA Method 120.1 or field measurement)
- Specific conductance

TDS (EPA Method 160.1 or field measurement)
- Total dissolved solids

General Chemistry - Anions (EPA Method 300.0)
- *Fluoride*
- *Chloride*
- *Bromide*
- *Nitrogen, Nitrite (as N)*
- *Nitrogen, Nitrate (as N)*
- *Phosphorous, Orthophosphate (As P)*
- *Sulfate*

General Chemistry - Alkalinity (EPA Method 310.1)
- *Alkalinity, Total*
- *Carbonate*
- *Bicarbonate*

Total Recoverable Metals (EPA Method 6010B/7470)
- Target List (not applicable to River Terrace Sampling Events)
  - *Arsenic*
  - *Barium*
  - *Cadmium*
  - *Chromium*
  - *Lead*
  - *Mercury*
  - *Selenium*
  - *Silver*
- Target List (for River Terrace Sampling Events Only)
  - *Lead*
  - *Mercury (DW-1 ONLY)*

Dissolved Metals (EPA Method 6010B / 7470)
- Target List (for Refinery Complex, Outfalls, and River)
  - *Arsenic*
  - *Barium*
  - *Cadmium*
  - *Calcium*
  - *Chromium*
  - *Copper*
  - *Iron*
  - *Lead*
  - *Magnesium*
  - *Manganese*
  - *Mercury*
  - *Potassium*
  - *Selenium*
  - *Silver*
  - *Sodium*
  - *Uranium*
  - *Zinc*

TPH = total petroleum hydrocarbons
GRO = gasoline range organics
VOCs = volatile organic compounds
DRO = diesel range organics
TDS = total dissolved solids

NOTES:

(1) VOCs Target List for River Terrace samples are analyzed by EPA Method 8021B per NMED's letter Approval with Direction dated June 16, 2009.

(2) Target List for San Juan River Terrace Monitoring Wells and Piezomenter Wells only, per the River Terrace Bioventing System Monitoring Plan.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 06, 2022

Eddie Hubbert

AECOM
6501 Americas Parkway NE Suite 900
Albuquerque, NM 87110
TEL: (505) 855-7500
FAX (505) 855-7555

RE: Bloomfield Terminal OrderNo.: 2208248

Dear Eddie Hubbert:

Hall Environmental Analysis Laboratory received 8 sample(s) on 8/4/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **2208248**
Date: **9/6/2022**

CLIENT: AECOM
Project: Bloomfield Terminal

Analytical Notes Regarding EPA Method DRO:
The laboratory control spike (LCS) had elevated recoveries.

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-51
Project: Bloomfield Terminal
Collection Date: 8/3/2022 9:45:00 AM
Lab ID: 2208248-001A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/8/2022 1:10:09 PM	A90092
Surr: BFB	106	0	70-130		%Rec	1	8/8/2022 1:10:09 PM	A90092
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Toluene	ND	0.20	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Naphthalene	ND	0.50	2.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Acetone	7.8	2.5	10	J	µg/L	1	8/6/2022 4:45:00 PM	R90063
Bromobenzene	ND	0.28	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Bromoform	ND	0.31	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Bromomethane	ND	0.85	3.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
2-Butanone	ND	2.0	10		µg/L	1	8/6/2022 4:45:00 PM	R90063
Carbon disulfide	ND	0.59	10		µg/L	1	8/6/2022 4:45:00 PM	R90063
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Chloroethane	ND	0.38	2.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Chloroform	ND	0.13	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Chloromethane	ND	0.41	3.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Dibromomethane	ND	0.31	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-51
Project: Bloomfield Terminal
Collection Date: 8/3/2022 9:45:00 AM
Lab ID: 2208248-001A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
2-Hexanone	ND	1.8	10		µg/L	1	8/6/2022 4:45:00 PM	R90063
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/6/2022 4:45:00 PM	R90063
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Styrene	ND	0.14	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/6/2022 4:45:00 PM	R90063
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/6/2022 4:45:00 PM	R90063
Surr: 1,2-Dichloroethane-d4	116	0	70-130		%Rec	1	8/6/2022 4:45:00 PM	R90063
Surr: 4-Bromofluorobenzene	99.8	0	70-130		%Rec	1	8/6/2022 4:45:00 PM	R90063
Surr: Dibromofluoromethane	111	0	70-130		%Rec	1	8/6/2022 4:45:00 PM	R90063
Surr: Toluene-d8	91.8	0	70-130		%Rec	1	8/6/2022 4:45:00 PM	R90063

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-51
Project: Bloomfield Terminal
Collection Date: 8/3/2022 9:45:00 AM
Lab ID: 2208248-001B
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	0.11	0.016	0.064		mg/L	1	8/16/2022 6:03:58 PM	69280
Motor Oil Range Organics (MRO)	0.10	0.052	0.080		mg/L	1	8/16/2022 6:03:58 PM	69280
Surr: DNOP	124	0	42.2-138		%Rec	1	8/16/2022 6:03:58 PM	69280
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	5.7	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Acenaphthylene	ND	5.8	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Aniline	ND	6.2	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Anthracene	ND	6.3	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Azobenzene	ND	7.4	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Benz(a)anthracene	ND	4.7	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
Benzo(a)pyrene	ND	5.8	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Benzo(b)fluoranthene	ND	5.0	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Benzo(g,h,i)perylene	ND	4.2	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
Benzo(k)fluoranthene	ND	6.2	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Benzoic acid	ND	18	20		µg/L	1	8/17/2022 3:32:06 PM	69277
Benzyl alcohol	ND	4.3	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
Bis(2-chloroethoxy)methane	ND	5.7	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Bis(2-chloroethyl)ether	ND	6.2	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Bis(2-chloroisopropyl)ether	ND	4.9	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
Bis(2-ethylhexyl)phthalate	ND	8.4	10		µg/L	1	8/17/2022 3:32:06 PM	69277
4-Bromophenyl phenyl ether	ND	7.9	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Butyl benzyl phthalate	ND	8.3	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Carbazole	ND	6.2	10		µg/L	1	8/17/2022 3:32:06 PM	69277
4-Chloro-3-methylphenol	ND	4.4	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
4-Chloroaniline	ND	4.5	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
2-Chloronaphthalene	ND	5.9	10		µg/L	1	8/17/2022 3:32:06 PM	69277
2-Chlorophenol	ND	4.7	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
4-Chlorophenyl phenyl ether	ND	6.1	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Chrysene	ND	5.3	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Di-n-butyl phthalate	ND	7.7	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Di-n-octyl phthalate	ND	12	20		µg/L	1	8/17/2022 3:32:06 PM	69277
Dibenz(a,h)anthracene	ND	5.1	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Dibenzofuran	ND	6.2	10		µg/L	1	8/17/2022 3:32:06 PM	69277
1,2-Dichlorobenzene	ND	3.3	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
1,3-Dichlorobenzene	ND	3.3	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
1,4-Dichlorobenzene	ND	2.4	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
3,3´-Dichlorobenzidine	ND	6.6	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Diethyl phthalate	ND	6.0	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Dimethyl phthalate	ND	6.0	10		µg/L	1	8/17/2022 3:32:06 PM	69277
2,4-Dichlorophenol	ND	4.1	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208248-001B

Client Sample ID: MW-51
Collection Date: 8/3/2022 9:45:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
2,4-Dimethylphenol	ND	5.8	10		µg/L	1	8/17/2022 3:32:06 PM	69277
4,6-Dinitro-2-methylphenol	ND	6.8	10		µg/L	1	8/17/2022 3:32:06 PM	69277
2,4-Dinitrophenol	ND	16	20		µg/L	1	8/17/2022 3:32:06 PM	69277
2,4-Dinitrotoluene	ND	4.9	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
2,6-Dinitrotoluene	ND	7.2	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Fluoranthene	ND	7.3	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Fluorene	ND	6.5	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Hexachlorobenzene	ND	19	20		µg/L	1	8/17/2022 3:32:06 PM	69277
Hexachlorobutadiene	ND	17	20		µg/L	1	8/17/2022 3:32:06 PM	69277
Hexachlorocyclopentadiene	ND	18	20		µg/L	1	8/17/2022 3:32:06 PM	69277
Hexachloroethane	ND	14	20		µg/L	1	8/17/2022 3:32:06 PM	69277
Indeno(1,2,3-cd)pyrene	ND	5.8	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Isophorone	ND	4.3	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
1-Methylnaphthalene	ND	4.3	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
2-Methylnaphthalene	ND	4.2	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
2-Methylphenol	ND	5.0	10		µg/L	1	8/17/2022 3:32:06 PM	69277
3+4-Methylphenol	ND	5.1	10		µg/L	1	8/17/2022 3:32:06 PM	69277
N-Nitrosodi-n-propylamine	ND	4.6	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
N-Nitrosodimethylamine	ND	3.9	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
N-Nitrosodiphenylamine	ND	7.3	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Naphthalene	ND	3.2	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
2-Nitroaniline	ND	5.3	10		µg/L	1	8/17/2022 3:32:06 PM	69277
3-Nitroaniline	ND	5.7	10		µg/L	1	8/17/2022 3:32:06 PM	69277
4-Nitroaniline	ND	4.4	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
Nitrobenzene	ND	4.9	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
2-Nitrophenol	ND	5.2	10		µg/L	1	8/17/2022 3:32:06 PM	69277
4-Nitrophenol	ND	3.3	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Pentachlorophenol	ND	27	40		µg/L	1	8/17/2022 3:32:06 PM	69277
Phenanthrene	ND	8.3	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Phenol	ND	18	20		µg/L	1	8/17/2022 3:32:06 PM	69277
Pyrene	ND	7.1	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Pyridine	ND	14	40		µg/L	1	8/17/2022 3:32:06 PM	69277
1,2,4-Trichlorobenzene	ND	4.4	5.0		µg/L	1	8/17/2022 3:32:06 PM	69277
2,4,5-Trichlorophenol	ND	6.3	10		µg/L	1	8/17/2022 3:32:06 PM	69277
2,4,6-Trichlorophenol	ND	5.9	10		µg/L	1	8/17/2022 3:32:06 PM	69277
Surr: 2-Fluorophenol	38.9	0	15-84.5		%Rec	1	8/17/2022 3:32:06 PM	69277
Surr: Phenol-d5	28.5	0	15-67		%Rec	1	8/17/2022 3:32:06 PM	69277
Surr: 2,4,6-Tribromophenol	50.6	0	15-108		%Rec	1	8/17/2022 3:32:06 PM	69277
Surr: Nitrobenzene-d5	57.6	0	16.8-112		%Rec	1	8/17/2022 3:32:06 PM	69277
Surr: 2-Fluorobiphenyl	55.9	0	15-101		%Rec	1	8/17/2022 3:32:06 PM	69277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208248-001B

Client Sample ID: MW-51
Collection Date: 8/3/2022 9:45:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 4-Terphenyl-d14	66.3	0	34.4-134		%Rec	1	8/17/2022 3:32:06 PM	69277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-51
Project: Bloomfield Terminal
Collection Date: 8/3/2022 9:45:00 AM
Lab ID: 2208248-001C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.36	0.046	0.10		mg/L	1	8/5/2022 1:43:11 AM	R90047
Chloride	7.7	0.25	0.50		mg/L	1	8/5/2022 1:43:11 AM	R90047
Nitrogen, Nitrite (As N)	0.018	0.011	0.10	J	mg/L	1	8/5/2022 1:43:11 AM	R90047
Bromide	0.072	0.050	0.10	J	mg/L	1	8/5/2022 1:43:11 AM	R90047
Nitrogen, Nitrate (As N)	0.97	0.020	0.10		mg/L	1	8/5/2022 1:43:11 AM	R90047
Phosphorus, Orthophosphate (As P)	ND	0.25	0.50		mg/L	1	8/5/2022 1:43:11 AM	R90047
Sulfate	34	0.25	0.50		mg/L	1	8/5/2022 1:43:11 AM	R90047
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	300	0	1.0	H	mg CO2/	1	8/5/2022 3:06:46 PM	R90076
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	324.0	20.00	20.00		mg/L Ca	1	8/5/2022 3:06:46 PM	R90076
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/5/2022 3:06:46 PM	R90076
Total Alkalinity (as CaCO3)	324.0	20.00	20.00		mg/L Ca	1	8/5/2022 3:06:46 PM	R90076
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	428	20.0	20.0		mg/L	1	8/11/2022 9:39:00 AM	69346

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-51
Project: Bloomfield Terminal
Collection Date: 8/3/2022 9:45:00 AM
Lab ID: 2208248-001D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	0.16	0.0016	0.0030		mg/L	1	8/22/2022 6:59:32 AM	69645
Cadmium	ND	0.0018	0.0020		mg/L	1	8/22/2022 6:59:32 AM	69645
Chromium	ND	0.0020	0.0060		mg/L	1	8/22/2022 6:59:32 AM	69645
Silver	ND	0.0018	0.0050		mg/L	1	8/22/2022 6:59:32 AM	69645
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0073	0.00013	0.0010		mg/L	1	8/17/2022 5:30:44 PM	69513
Lead	ND	0.000061	0.00050		mg/L	1	8/17/2022 5:30:44 PM	69513
Selenium	0.00081	0.00037	0.0010	J	mg/L	1	8/17/2022 5:30:44 PM	69513
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	0.000096	0.000091	0.00020	J	mg/L	1	8/12/2022 1:28:08 PM	69447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-51
Project: Bloomfield Terminal
Collection Date: 8/3/2022 9:45:00 AM
Lab ID: 2208248-001E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.11	0.0011	0.0020		mg/L	1	8/23/2022 2:54:03 PM	C90525
Cadmium	ND	0.00098	0.0020		mg/L	1	8/23/2022 2:54:03 PM	C90525
Calcium	82	0.57	5.0		mg/L	5	8/23/2022 3:00:30 PM	C90525
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 2:54:03 PM	C90525
Iron	0.013	0.010	0.020	J	mg/L	1	8/23/2022 2:54:03 PM	C90525
Magnesium	16	0.067	1.0		mg/L	1	8/23/2022 2:54:03 PM	C90525
Manganese	2.6	0.0029	0.010	*	mg/L	5	8/23/2022 3:00:30 PM	C90525
Potassium	1.9	0.16	1.0		mg/L	1	8/23/2022 2:54:03 PM	C90525
Silver	0.0021	0.0013	0.0050	J	mg/L	1	8/23/2022 2:54:03 PM	C90525
Sodium	41	0.33	1.0		mg/L	1	8/23/2022 2:54:03 PM	C90525
Zinc	0.0063	0.0032	0.010	J	mg/L	1	8/23/2022 2:54:03 PM	C90525
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.0073	0.00012	0.0010		mg/L	1	8/13/2022 6:09:34 PM	A90280
Copper	0.00094	0.00037	0.0010	J	mg/L	1	8/13/2022 6:09:34 PM	A90280
Lead	ND	0.000057	0.00050		mg/L	1	8/13/2022 6:09:34 PM	A90280
Selenium	0.0013	0.00034	0.0010		mg/L	1	8/13/2022 6:09:34 PM	A90280
Uranium	0.00066	0.000065	0.00050		mg/L	1	8/13/2022 6:09:34 PM	A90280
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 1:34:36 PM	69447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-78
Project: Bloomfield Terminal
Collection Date: 8/3/2022 11:05:00 AM
Lab ID: 2208248-002A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/8/2022 2:21:32 PM	A90092
Surr: BFB	109	0	70-130		%Rec	1	8/8/2022 2:21:32 PM	A90092
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Toluene	ND	0.20	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Naphthalene	ND	0.50	2.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Acetone	6.8	2.5	10	J	µg/L	1	8/6/2022 5:54:00 PM	R90063
Bromobenzene	ND	0.28	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Bromoform	ND	0.31	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Bromomethane	ND	0.85	3.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
2-Butanone	ND	2.0	10		µg/L	1	8/6/2022 5:54:00 PM	R90063
Carbon disulfide	ND	0.59	10		µg/L	1	8/6/2022 5:54:00 PM	R90063
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Chloroethane	ND	0.38	2.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Chloroform	ND	0.13	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Chloromethane	ND	0.41	3.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Dibromomethane	ND	0.31	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-78
Project: Bloomfield Terminal
Collection Date: 8/3/2022 11:05:00 AM
Lab ID: 2208248-002A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
2-Hexanone	ND	1.8	10		µg/L	1	8/6/2022 5:54:00 PM	R90063
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/6/2022 5:54:00 PM	R90063
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Styrene	ND	0.14	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/6/2022 5:54:00 PM	R90063
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/6/2022 5:54:00 PM	R90063
Surr: 1,2-Dichloroethane-d4	115	0	70-130		%Rec	1	8/6/2022 5:54:00 PM	R90063
Surr: 4-Bromofluorobenzene	98.6	0	70-130		%Rec	1	8/6/2022 5:54:00 PM	R90063
Surr: Dibromofluoromethane	109	0	70-130		%Rec	1	8/6/2022 5:54:00 PM	R90063
Surr: Toluene-d8	92.8	0	70-130		%Rec	1	8/6/2022 5:54:00 PM	R90063

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208248-002B

Client Sample ID: MW-78
Collection Date: 8/3/2022 11:05:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	0.054	0.016	0.064	J	mg/L	1	8/16/2022 6:28:24 PM	69280
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/16/2022 6:28:24 PM	69280
Surr: DNOP	128	0	42.2-138		%Rec	1	8/16/2022 6:28:24 PM	69280
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	5.7	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Acenaphthylene	ND	5.8	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Aniline	ND	6.2	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Anthracene	ND	6.3	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Azobenzene	ND	7.4	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Benz(a)anthracene	ND	4.7	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
Benzo(a)pyrene	ND	5.8	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Benzo(b)fluoranthene	ND	5.0	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Benzo(g,h,i)perylene	ND	4.2	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
Benzo(k)fluoranthene	ND	6.2	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Benzoic acid	ND	18	20		µg/L	1	8/17/2022 5:40:15 PM	69277
Benzyl alcohol	ND	4.3	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
Bis(2-chloroethoxy)methane	ND	5.7	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Bis(2-chloroethyl)ether	ND	6.2	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Bis(2-chloroisopropyl)ether	ND	4.9	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
Bis(2-ethylhexyl)phthalate	ND	8.4	10		µg/L	1	8/17/2022 5:40:15 PM	69277
4-Bromophenyl phenyl ether	ND	7.9	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Butyl benzyl phthalate	ND	8.3	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Carbazole	ND	6.2	10		µg/L	1	8/17/2022 5:40:15 PM	69277
4-Chloro-3-methylphenol	ND	4.4	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
4-Chloroaniline	ND	4.5	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
2-Chloronaphthalene	ND	5.9	10		µg/L	1	8/17/2022 5:40:15 PM	69277
2-Chlorophenol	ND	4.7	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
4-Chlorophenyl phenyl ether	ND	6.1	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Chrysene	ND	5.3	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Di-n-butyl phthalate	ND	7.7	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Di-n-octyl phthalate	ND	12	20		µg/L	1	8/17/2022 5:40:15 PM	69277
Dibenz(a,h)anthracene	ND	5.1	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Dibenzofuran	ND	6.2	10		µg/L	1	8/17/2022 5:40:15 PM	69277
1,2-Dichlorobenzene	ND	3.3	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
1,3-Dichlorobenzene	ND	3.3	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
1,4-Dichlorobenzene	ND	2.4	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
3,3´-Dichlorobenzidine	ND	6.6	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Diethyl phthalate	ND	6.0	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Dimethyl phthalate	ND	6.0	10		µg/L	1	8/17/2022 5:40:15 PM	69277
2,4-Dichlorophenol	ND	4.1	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-78
Project: Bloomfield Terminal
Collection Date: 8/3/2022 11:05:00 AM
Lab ID: 2208248-002B
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
2,4-Dimethylphenol	ND	5.8	10		µg/L	1	8/17/2022 5:40:15 PM	69277
4,6-Dinitro-2-methylphenol	ND	6.8	10		µg/L	1	8/17/2022 5:40:15 PM	69277
2,4-Dinitrophenol	ND	16	20		µg/L	1	8/17/2022 5:40:15 PM	69277
2,4-Dinitrotoluene	ND	4.9	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
2,6-Dinitrotoluene	ND	7.2	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Fluoranthene	ND	7.3	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Fluorene	ND	6.5	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Hexachlorobenzene	ND	19	20		µg/L	1	8/17/2022 5:40:15 PM	69277
Hexachlorobutadiene	ND	17	20		µg/L	1	8/17/2022 5:40:15 PM	69277
Hexachlorocyclopentadiene	ND	18	20		µg/L	1	8/17/2022 5:40:15 PM	69277
Hexachloroethane	ND	14	20		µg/L	1	8/17/2022 5:40:15 PM	69277
Indeno(1,2,3-cd)pyrene	ND	5.8	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Isophorone	ND	4.3	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
1-Methylnaphthalene	ND	4.3	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
2-Methylnaphthalene	ND	4.2	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
2-Methylphenol	ND	5.0	10		µg/L	1	8/17/2022 5:40:15 PM	69277
3+4-Methylphenol	ND	5.1	10		µg/L	1	8/17/2022 5:40:15 PM	69277
N-Nitrosodi-n-propylamine	ND	4.6	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
N-Nitrosodimethylamine	ND	3.9	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
N-Nitrosodiphenylamine	ND	7.3	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Naphthalene	ND	3.2	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
2-Nitroaniline	ND	5.3	10		µg/L	1	8/17/2022 5:40:15 PM	69277
3-Nitroaniline	ND	5.7	10		µg/L	1	8/17/2022 5:40:15 PM	69277
4-Nitroaniline	ND	4.4	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
Nitrobenzene	ND	4.9	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
2-Nitrophenol	ND	5.2	10		µg/L	1	8/17/2022 5:40:15 PM	69277
4-Nitrophenol	ND	3.3	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Pentachlorophenol	ND	27	40		µg/L	1	8/17/2022 5:40:15 PM	69277
Phenanthrene	ND	8.3	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Phenol	ND	18	20		µg/L	1	8/17/2022 5:40:15 PM	69277
Pyrene	ND	7.1	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Pyridine	ND	14	40		µg/L	1	8/17/2022 5:40:15 PM	69277
1,2,4-Trichlorobenzene	ND	4.4	5.0		µg/L	1	8/17/2022 5:40:15 PM	69277
2,4,5-Trichlorophenol	ND	6.3	10		µg/L	1	8/17/2022 5:40:15 PM	69277
2,4,6-Trichlorophenol	ND	5.9	10		µg/L	1	8/17/2022 5:40:15 PM	69277
Surr: 2-Fluorophenol	46.0	0	15-84.5		%Rec	1	8/17/2022 5:40:15 PM	69277
Surr: Phenol-d5	35.7	0	15-67		%Rec	1	8/17/2022 5:40:15 PM	69277
Surr: 2,4,6-Tribromophenol	63.8	0	15-108		%Rec	1	8/17/2022 5:40:15 PM	69277
Surr: Nitrobenzene-d5	65.6	0	16.8-112		%Rec	1	8/17/2022 5:40:15 PM	69277
Surr: 2-Fluorobiphenyl	61.5	0	15-101		%Rec	1	8/17/2022 5:40:15 PM	69277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208248-002B

Client Sample ID: MW-78
Collection Date: 8/3/2022 11:05:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 4-Terphenyl-d14	72.8	0	34.4-134		%Rec	1	8/17/2022 5:40:15 PM	69277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-78
Project: Bloomfield Terminal
Collection Date: 8/3/2022 11:05:00 AM
Lab ID: 2208248-002C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.45	0.23	0.50	J	mg/L	5	8/5/2022 2:57:38 AM	R90047
Chloride	270	5.0	10	*	mg/L	20	8/5/2022 3:10:02 AM	R90047
Nitrogen, Nitrite (As N)	ND	0.057	0.50		mg/L	5	8/5/2022 2:57:38 AM	R90047
Bromide	1.1	0.25	0.50		mg/L	5	8/5/2022 2:57:38 AM	R90047
Nitrogen, Nitrate (As N)	35	0.10	0.50	*	mg/L	5	8/5/2022 2:57:38 AM	R90047
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5		mg/L	5	8/5/2022 2:57:38 AM	R90047
Sulfate	840	5.0	10	*	mg/L	20	8/5/2022 3:10:02 AM	R90047
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	270	0	1.0	H	mg CO2/	1	8/5/2022 3:22:16 PM	R90076
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	279.2	20.00	20.00		mg/L Ca	1	8/5/2022 3:22:16 PM	R90076
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/5/2022 3:22:16 PM	R90076
Total Alkalinity (as CaCO3)	279.2	20.00	20.00		mg/L Ca	1	8/5/2022 3:22:16 PM	R90076
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	2160	40.0	40.0	*D	mg/L	1	8/11/2022 9:39:00 AM	69346

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-78
Project: Bloomfield Terminal
Collection Date: 8/3/2022 11:05:00 AM
Lab ID: 2208248-002D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	0.081	0.0016	0.0030		mg/L	1	8/16/2022 2:13:47 PM	69513
Cadmium	ND	0.0018	0.0020		mg/L	1	8/16/2022 2:13:47 PM	69513
Chromium	0.0039	0.0020	0.0060	J	mg/L	1	8/16/2022 2:13:47 PM	69513
Silver	0.0023	0.0018	0.0050	J	mg/L	1	8/16/2022 2:13:47 PM	69513
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0018	0.00013	0.0010		mg/L	1	8/17/2022 5:33:11 PM	69513
Lead	0.0031	0.000061	0.00050		mg/L	1	8/17/2022 5:33:11 PM	69513
Selenium	0.038	0.00037	0.0010		mg/L	1	8/19/2022 12:46:12 PM	69513
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	0.000094	0.000091	0.00020	J	mg/L	1	8/12/2022 1:36:46 PM	69447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-78
Project: Bloomfield Terminal
Collection Date: 8/3/2022 11:05:00 AM
Lab ID: 2208248-002E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.021	0.0011	0.0020		mg/L	1	8/23/2022 3:06:47 PM	C90525
Cadmium	ND	0.00098	0.0020		mg/L	1	8/23/2022 3:06:47 PM	C90525
Calcium	240	0.57	5.0		mg/L	5	8/23/2022 3:08:50 PM	C90525
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 3:06:47 PM	C90525
Iron	ND	0.010	0.020		mg/L	1	8/23/2022 3:06:47 PM	C90525
Magnesium	50	0.067	1.0		mg/L	1	8/23/2022 3:06:47 PM	C90525
Manganese	0.053	0.00058	0.0020	*	mg/L	1	8/23/2022 3:06:47 PM	C90525
Potassium	4.1	0.16	1.0		mg/L	1	8/23/2022 3:06:47 PM	C90525
Silver	0.0052	0.0013	0.0050		mg/L	1	8/23/2022 3:06:47 PM	C90525
Sodium	350	1.7	5.0		mg/L	5	8/23/2022 3:08:50 PM	C90525
Zinc	0.0040	0.0032	0.010	J	mg/L	1	8/23/2022 3:06:47 PM	C90525
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.00092	0.00012	0.0010	J	mg/L	1	8/13/2022 6:17:38 PM	A90280
Copper	0.0015	0.00037	0.0010		mg/L	1	8/13/2022 6:17:38 PM	A90280
Lead	ND	0.000057	0.00050		mg/L	1	8/13/2022 6:17:38 PM	A90280
Selenium	0.047	0.00034	0.0010		mg/L	1	8/13/2022 6:17:38 PM	A90280
Uranium	0.010	0.000065	0.00050		mg/L	1	8/13/2022 6:17:38 PM	A90280
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 1:38:55 PM	69447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-4
Project: Bloomfield Terminal
Collection Date: 8/3/2022 1:05:00 PM
Lab ID: 2208248-003A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	1.0	0.0090	0.050		mg/L	1	8/8/2022 2:45:19 PM	A90092
Surr: BFB	366	0	70-130	S	%Rec	1	8/8/2022 2:45:19 PM	A90092
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	7.7	0.23	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Toluene	ND	0.20	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Ethylbenzene	2.1	0.21	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Methyl tert-butyl ether (MTBE)	2.5	0.39	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,2,4-Trimethylbenzene	73	0.12	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,3,5-Trimethylbenzene	17	0.18	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Naphthalene	55	0.50	2.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1-Methylnaphthalene	16	0.84	4.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
2-Methylnaphthalene	24	0.69	4.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Acetone	10	2.5	10		µg/L	1	8/6/2022 6:17:00 PM	R90063
Bromobenzene	ND	0.28	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Bromoform	ND	0.31	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Bromomethane	ND	0.85	3.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
2-Butanone	ND	2.0	10		µg/L	1	8/6/2022 6:17:00 PM	R90063
Carbon disulfide	ND	0.59	10		µg/L	1	8/6/2022 6:17:00 PM	R90063
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Chloroethane	ND	0.38	2.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Chloroform	ND	0.13	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Chloromethane	ND	0.41	3.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Dibromomethane	ND	0.31	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208248-003A

Client Sample ID: MW-4
Collection Date: 8/3/2022 1:05:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
2-Hexanone	ND	1.8	10		µg/L	1	8/6/2022 6:17:00 PM	R90063
Isopropylbenzene	26	0.18	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
4-Isopropyltoluene	1.1	0.20	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/6/2022 6:17:00 PM	R90063
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
n-Butylbenzene	0.88	0.25	3.0	J	µg/L	1	8/6/2022 6:17:00 PM	R90063
n-Propylbenzene	30	0.18	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
sec-Butylbenzene	4.5	0.14	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Styrene	ND	0.14	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
tert-Butylbenzene	1.1	0.24	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/6/2022 6:17:00 PM	R90063
Xylenes, Total	28	0.37	1.5		µg/L	1	8/6/2022 6:17:00 PM	R90063
Surr: 1,2-Dichloroethane-d4	103	0	70-130		%Rec	1	8/6/2022 6:17:00 PM	R90063
Surr: 4-Bromofluorobenzene	96.5	0	70-130		%Rec	1	8/6/2022 6:17:00 PM	R90063
Surr: Dibromofluoromethane	98.9	0	70-130		%Rec	1	8/6/2022 6:17:00 PM	R90063
Surr: Toluene-d8	108	0	70-130		%Rec	1	8/6/2022 6:17:00 PM	R90063

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208248-003B

Client Sample ID: MW-4
Collection Date: 8/3/2022 1:05:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	2.2	0.016	0.064		mg/L	1	8/16/2022 6:52:51 PM	69280
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/16/2022 6:52:51 PM	69280
Surr: DNOP	126	0	42.2-138		%Rec	1	8/16/2022 6:52:51 PM	69280

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-4
Project: Bloomfield Terminal
Collection Date: 8/3/2022 1:05:00 PM
Lab ID: 2208248-003C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	ND	0.23	0.50		mg/L	5	8/5/2022 3:22:26 AM	R90047
Chloride	280	5.0	10	*	mg/L	20	8/5/2022 3:34:51 AM	R90047
Nitrogen, Nitrite (As N)	ND	0.057	0.50		mg/L	5	8/5/2022 3:22:26 AM	R90047
Bromide	5.1	0.25	0.50		mg/L	5	8/5/2022 3:22:26 AM	R90047
Nitrogen, Nitrate (As N)	ND	0.10	0.50		mg/L	5	8/5/2022 3:22:26 AM	R90047
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5		mg/L	5	8/5/2022 3:22:26 AM	R90047
Sulfate	3.3	1.2	2.5		mg/L	5	8/5/2022 3:22:26 AM	R90047
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	1200	0	2.5	H	mg CO2/	2.5	8/9/2022 8:58:20 PM	R90137
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	1314	50.00	50.00		mg/L Ca	2.5	8/9/2022 8:58:20 PM	A90137
Carbonate (As CaCO3)	ND	5.000	5.000		mg/L Ca	2.5	8/9/2022 8:58:20 PM	A90137
Total Alkalinity (as CaCO3)	1314	50.00	50.00		mg/L Ca	2.5	8/9/2022 8:58:20 PM	A90137
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	2060	100	100	*D	mg/L	1	8/11/2022 9:39:00 AM	69346

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-4
Project: Bloomfield Terminal
Collection Date: 8/3/2022 1:05:00 PM
Lab ID: 2208248-003D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	2.3	0.0079	0.015	*	mg/L	5	8/16/2022 2:18:21 PM	69513
Cadmium	ND	0.0018	0.0020		mg/L	1	8/16/2022 2:16:56 PM	69513
Chromium	ND	0.0020	0.0060		mg/L	1	8/16/2022 2:16:56 PM	69513
Silver	ND	0.0018	0.0050		mg/L	1	8/16/2022 2:16:56 PM	69513
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0054	0.00013	0.0010		mg/L	1	8/17/2022 5:35:36 PM	69513
Lead	0.00068	0.000061	0.00050		mg/L	1	8/17/2022 5:35:36 PM	69513
Selenium	0.00060	0.00037	0.0010	J	mg/L	1	8/17/2022 5:35:36 PM	69513
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 1:41:05 PM	69447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-4
Project: Bloomfield Terminal
Collection Date: 8/3/2022 1:05:00 PM
Lab ID: 2208248-003E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	2.4	0.0056	0.010	*	mg/L	5	8/23/2022 3:12:54 PM	C90525
Cadmium	ND	0.00098	0.0020		mg/L	1	8/23/2022 3:10:56 PM	C90525
Calcium	120	0.57	5.0		mg/L	5	8/23/2022 3:12:54 PM	C90525
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 3:10:56 PM	C90525
Iron	7.0	0.10	0.20	*	mg/L	10	8/25/2022 4:02:49 PM	B90598
Magnesium	64	0.067	1.0		mg/L	1	8/23/2022 3:10:56 PM	C90525
Manganese	1.4	0.0029	0.010	*	mg/L	5	8/23/2022 3:12:54 PM	C90525
Potassium	4.6	0.16	1.0		mg/L	1	8/23/2022 3:10:56 PM	C90525
Silver	0.0018	0.0013	0.0050	J	mg/L	1	8/23/2022 3:10:56 PM	C90525
Sodium	550	3.3	10		mg/L	10	8/25/2022 4:02:49 PM	B90598
Zinc	0.0053	0.0032	0.010	J	mg/L	1	8/23/2022 3:10:56 PM	C90525
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.0069	0.00012	0.0010		mg/L	1	8/13/2022 6:20:20 PM	B90280
Copper	ND	0.00037	0.0010		mg/L	1	8/13/2022 6:20:20 PM	B90280
Lead	0.00039	0.000057	0.00050	J	mg/L	1	8/13/2022 6:20:20 PM	B90280
Selenium	0.0011	0.00034	0.0010		mg/L	1	8/13/2022 6:20:20 PM	B90280
Uranium	ND	0.000065	0.00050		mg/L	1	8/13/2022 6:20:20 PM	B90280
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 1:43:15 PM	69447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-59
Project: Bloomfield Terminal
Collection Date: 8/3/2022 2:15:00 PM
Lab ID: 2208248-004A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	0.85	0.0090	0.050		mg/L	1	8/8/2022 3:09:01 PM	A90092
Surr: BFB	110	0	70-130		%Rec	1	8/8/2022 3:09:01 PM	A90092
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Toluene	ND	0.20	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Methyl tert-butyl ether (MTBE)	850	3.9	10		µg/L	10	8/6/2022 6:40:00 PM	R90063
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1,2-Dichloroethane (EDC)	1.7	0.25	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Naphthalene	ND	0.50	2.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Acetone	ND	2.5	10		µg/L	1	8/6/2022 7:04:00 PM	R90063
Bromobenzene	ND	0.28	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Bromoform	ND	0.31	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Bromomethane	ND	0.85	3.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
2-Butanone	ND	2.0	10		µg/L	1	8/6/2022 7:04:00 PM	R90063
Carbon disulfide	ND	0.59	10		µg/L	1	8/6/2022 7:04:00 PM	R90063
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Chloroethane	ND	0.38	2.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Chloroform	ND	0.13	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Chloromethane	ND	0.41	3.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Dibromomethane	ND	0.31	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-59
Project: Bloomfield Terminal
Collection Date: 8/3/2022 2:15:00 PM
Lab ID: 2208248-004A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
2-Hexanone	ND	1.8	10		µg/L	1	8/6/2022 7:04:00 PM	R90063
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/6/2022 7:04:00 PM	R90063
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
sec-Butylbenzene	3.4	0.14	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Styrene	ND	0.14	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/6/2022 7:04:00 PM	R90063
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/6/2022 7:04:00 PM	R90063
Surr: 1,2-Dichloroethane-d4	114	0	70-130		%Rec	1	8/6/2022 7:04:00 PM	R90063
Surr: 4-Bromofluorobenzene	97.9	0	70-130		%Rec	1	8/6/2022 7:04:00 PM	R90063
Surr: Dibromofluoromethane	105	0	70-130		%Rec	1	8/6/2022 7:04:00 PM	R90063
Surr: Toluene-d8	95.9	0	70-130		%Rec	1	8/6/2022 7:04:00 PM	R90063

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208248-004B

Client Sample ID: MW-59
Collection Date: 8/3/2022 2:15:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	0.50	0.016	0.064		mg/L	1	8/16/2022 7:17:21 PM	69280
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/16/2022 7:17:21 PM	69280
Surr: DNOP	124	0	42.2-138		%Rec	1	8/16/2022 7:17:21 PM	69280

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-59
Project: Bloomfield Terminal
Collection Date: 8/3/2022 2:15:00 PM
Lab ID: 2208248-004C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	ND	0.046	0.10		mg/L	1	8/5/2022 3:47:15 AM	R90047
Chloride	280	5.0	10	*	mg/L	20	8/5/2022 3:59:39 AM	R90047
Nitrogen, Nitrite (As N)	0.56	0.011	0.10		mg/L	1	8/5/2022 3:47:15 AM	R90047
Bromide	5.3	1.0	2.0		mg/L	20	8/5/2022 3:59:39 AM	R90047
Nitrogen, Nitrate (As N)	27	0.40	2.0	*	mg/L	20	8/5/2022 3:59:39 AM	R90047
Phosphorus, Orthophosphate (As P)	ND	5.0	10		mg/L	20	8/5/2022 3:59:39 AM	R90047
Sulfate	990	12	25	*	mg/L	50	8/23/2022 3:56:59 PM	R90519
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	1000	0	1.0	H	mg CO2/	1	8/5/2022 3:25:37 PM	R90076
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	998.7	20.00	20.00		mg/L Ca	1	8/5/2022 3:36:37 PM	R90076
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/5/2022 3:36:37 PM	R90076
Total Alkalinity (as CaCO3)	998.7	20.00	20.00		mg/L Ca	1	8/5/2022 3:36:37 PM	R90076
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	3100	100	100	*D	mg/L	1	8/11/2022 9:39:00 AM	69346

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-59
Project: Bloomfield Terminal
Collection Date: 8/3/2022 2:15:00 PM
Lab ID: 2208248-004D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	0.048	0.0016	0.0030		mg/L	1	8/16/2022 2:26:23 PM	69513
Cadmium	ND	0.0018	0.0020		mg/L	1	8/16/2022 2:26:23 PM	69513
Chromium	ND	0.0020	0.0060		mg/L	1	8/16/2022 2:26:23 PM	69513
Silver	0.0039	0.0018	0.0050	J	mg/L	1	8/16/2022 2:26:23 PM	69513
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0011	0.00013	0.0010		mg/L	1	8/17/2022 5:38:02 PM	69513
Lead	0.000087	0.000061	0.00050	J	mg/L	1	8/17/2022 5:38:02 PM	69513
Selenium	0.0026	0.00037	0.0010		mg/L	1	8/23/2022 1:08:05 PM	69513
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 1:45:25 PM	69447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-59
Project: Bloomfield Terminal
Collection Date: 8/3/2022 2:15:00 PM
Lab ID: 2208248-004E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.045	0.0011	0.0020		mg/L	1	8/23/2022 3:20:47 PM	C90525
Cadmium	ND	0.00098	0.0020		mg/L	1	8/23/2022 3:20:47 PM	C90525
Calcium	300	0.57	5.0		mg/L	5	8/23/2022 3:23:01 PM	C90525
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 3:20:47 PM	C90525
Iron	0.019	0.010	0.020	J	mg/L	1	8/23/2022 3:20:47 PM	C90525
Magnesium	110	0.34	5.0		mg/L	5	8/23/2022 3:23:01 PM	C90525
Manganese	0.77	0.00058	0.0020	*	mg/L	1	8/23/2022 3:20:47 PM	C90525
Potassium	4.5	0.16	1.0		mg/L	1	8/23/2022 3:20:47 PM	C90525
Silver	0.0062	0.0013	0.0050		mg/L	1	8/23/2022 3:20:47 PM	C90525
Sodium	630	3.3	10		mg/L	10	8/25/2022 4:04:44 PM	B90598
Zinc	0.0057	0.0032	0.010	J	mg/L	1	8/23/2022 3:20:47 PM	C90525
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.00064	0.00061	0.0050	J	mg/L	5	8/18/2022 4:31:33 PM	A90407
Copper	0.0011	0.00037	0.0010		mg/L	1	8/13/2022 6:25:42 PM	B90280
Lead	ND	0.000057	0.00050		mg/L	1	8/13/2022 6:25:42 PM	B90280
Selenium	0.0033	0.0017	0.0050	J	mg/L	5	8/18/2022 4:31:33 PM	A90407
Uranium	0.030	0.00033	0.0025	*	mg/L	5	8/18/2022 4:31:33 PM	A90407
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 1:51:51 PM	69447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: CW 25+95
Project: Bloomfield Terminal
Collection Date: 8/3/2022 1:35:00 PM
Lab ID: 2208248-005A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	0.096	0.0090	0.050		mg/L	1	8/8/2022 3:32:46 PM	A90092
Surr: BFB	113	0	70-130		%Rec	1	8/8/2022 3:32:46 PM	A90092
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Toluene	ND	0.20	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Methyl tert-butyl ether (MTBE)	1.2	0.39	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Naphthalene	ND	0.50	2.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Acetone	6.4	2.5	10	J	µg/L	1	8/6/2022 7:27:00 PM	R90063
Bromobenzene	ND	0.28	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Bromoform	ND	0.31	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Bromomethane	ND	0.85	3.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
2-Butanone	ND	2.0	10		µg/L	1	8/6/2022 7:27:00 PM	R90063
Carbon disulfide	ND	0.59	10		µg/L	1	8/6/2022 7:27:00 PM	R90063
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Chloroethane	ND	0.38	2.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Chloroform	ND	0.13	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Chloromethane	ND	0.41	3.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Dibromomethane	ND	0.31	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: CW 25+95
Project: Bloomfield Terminal
Collection Date: 8/3/2022 1:35:00 PM
Lab ID: 2208248-005A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
2-Hexanone	ND	1.8	10		µg/L	1	8/6/2022 7:27:00 PM	R90063
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/6/2022 7:27:00 PM	R90063
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Styrene	ND	0.14	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/6/2022 7:27:00 PM	R90063
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/6/2022 7:27:00 PM	R90063
Surr: 1,2-Dichloroethane-d4	111	0	70-130		%Rec	1	8/6/2022 7:27:00 PM	R90063
Surr: 4-Bromofluorobenzene	104	0	70-130		%Rec	1	8/6/2022 7:27:00 PM	R90063
Surr: Dibromofluoromethane	103	0	70-130		%Rec	1	8/6/2022 7:27:00 PM	R90063
Surr: Toluene-d8	99.9	0	70-130		%Rec	1	8/6/2022 7:27:00 PM	R90063

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Qualifiers:

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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208248-005B

Client Sample ID: CW 25+95
Collection Date: 8/3/2022 1:35:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	1.1	0.016	0.064		mg/L	1	8/16/2022 7:41:44 PM	69280
Motor Oil Range Organics (MRO)	0.73	0.052	0.080		mg/L	1	8/16/2022 7:41:44 PM	69280
Surr: DNOP	125	0	42.2-138		%Rec	1	8/16/2022 7:41:44 PM	69280

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: CW 25+95
Project: Bloomfield Terminal
Collection Date: 8/3/2022 1:35:00 PM
Lab ID: 2208248-005C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	2850	40.0	40.0	*D	mg/L	1	8/11/2022 9:39:00 AM	69346

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208248-006A

Client Sample ID: OW 25+70
Collection Date: 8/3/2022 12:35:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	0.030	0.0090	0.050	J	mg/L	1	8/9/2022 1:03:54 PM	R90135
Surr: BFB	104	0	70-130		%Rec	1	8/9/2022 1:03:54 PM	R90135
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Toluene	ND	0.20	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Naphthalene	ND	0.50	2.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Acetone	5.9	2.5	10	J	µg/L	1	8/6/2022 7:50:00 PM	R90063
Bromobenzene	ND	0.28	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Bromoform	ND	0.31	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Bromomethane	ND	0.85	3.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
2-Butanone	ND	2.0	10		µg/L	1	8/6/2022 7:50:00 PM	R90063
Carbon disulfide	ND	0.59	10		µg/L	1	8/6/2022 7:50:00 PM	R90063
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Chloroethane	ND	0.38	2.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Chloroform	ND	0.13	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Chloromethane	ND	0.41	3.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Dibromomethane	ND	0.31	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208248-006A

Client Sample ID: OW 25+70
Collection Date: 8/3/2022 12:35:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
2-Hexanone	ND	1.8	10		µg/L	1	8/6/2022 7:50:00 PM	R90063
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/6/2022 7:50:00 PM	R90063
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Styrene	ND	0.14	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/6/2022 7:50:00 PM	R90063
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/6/2022 7:50:00 PM	R90063
Surr: 1,2-Dichloroethane-d4	111	0	70-130		%Rec	1	8/6/2022 7:50:00 PM	R90063
Surr: 4-Bromofluorobenzene	103	0	70-130		%Rec	1	8/6/2022 7:50:00 PM	R90063
Surr: Dibromofluoromethane	106	0	70-130		%Rec	1	8/6/2022 7:50:00 PM	R90063
Surr: Toluene-d8	97.6	0	70-130		%Rec	1	8/6/2022 7:50:00 PM	R90063

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208248-006B

Client Sample ID: OW 25+70
Collection Date: 8/3/2022 12:35:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	0.064	0.016	0.064	J	mg/L	1	8/16/2022 8:06:05 PM	69280
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/16/2022 8:06:05 PM	69280
Surr: DNOP	128	0	42.2-138		%Rec	1	8/16/2022 8:06:05 PM	69280

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208248-006C

Client Sample ID: OW 25+70
Collection Date: 8/3/2022 12:35:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	2150	40.0	40.0	*D	mg/L	1	8/11/2022 9:39:00 AM	69346

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: N Of 45
Project: Bloomfield Terminal
Collection Date: 8/3/2022 9:20:00 AM
Lab ID: 2208248-007A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/9/2022 1:27:40 PM	R90135
Surr: BFB	101	0	70-130		%Rec	1	8/9/2022 1:27:40 PM	R90135
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Toluene	ND	0.20	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Naphthalene	ND	0.50	2.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Acetone	6.2	2.5	10	J	µg/L	1	8/6/2022 8:13:00 PM	R90063
Bromobenzene	ND	0.28	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Bromoform	ND	0.31	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Bromomethane	ND	0.85	3.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
2-Butanone	ND	2.0	10		µg/L	1	8/6/2022 8:13:00 PM	R90063
Carbon disulfide	ND	0.59	10		µg/L	1	8/6/2022 8:13:00 PM	R90063
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Chloroethane	ND	0.38	2.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Chloroform	ND	0.13	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Chloromethane	ND	0.41	3.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Dibromomethane	ND	0.31	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: N Of 45
Project: Bloomfield Terminal
Collection Date: 8/3/2022 9:20:00 AM
Lab ID: 2208248-007A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
2-Hexanone	ND	1.8	10		µg/L	1	8/6/2022 8:13:00 PM	R90063
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/6/2022 8:13:00 PM	R90063
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Styrene	ND	0.14	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/6/2022 8:13:00 PM	R90063
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/6/2022 8:13:00 PM	R90063
Surr: 1,2-Dichloroethane-d4	114	0	70-130		%Rec	1	8/6/2022 8:13:00 PM	R90063
Surr: 4-Bromofluorobenzene	99.3	0	70-130		%Rec	1	8/6/2022 8:13:00 PM	R90063
Surr: Dibromofluoromethane	107	0	70-130		%Rec	1	8/6/2022 8:13:00 PM	R90063
Surr: Toluene-d8	95.2	0	70-130		%Rec	1	8/6/2022 8:13:00 PM	R90063

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208248-007B

Client Sample ID: N Of 45
Collection Date: 8/3/2022 9:20:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **SB**	
Diesel Range Organics (DRO)	0.031	0.016	0.064	J	mg/L	1	8/16/2022 8:30:22 PM	69280
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/16/2022 8:30:22 PM	69280
Surr: DNOP	115	0	42.2-138		%Rec	1	8/16/2022 8:30:22 PM	69280

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208248-007C

Client Sample ID: N Of 45
Collection Date: 8/3/2022 9:20:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	ND	0.23	0.50		mg/L	5	8/5/2022 4:12:04 AM	R90047
Chloride	3.7	1.2	2.5		mg/L	5	8/5/2022 4:12:04 AM	R90047
Nitrogen, Nitrite (As N)	ND	0.057	0.50		mg/L	5	8/5/2022 4:12:04 AM	R90047
Bromide	ND	0.25	0.50		mg/L	5	8/5/2022 4:12:04 AM	R90047
Nitrogen, Nitrate (As N)	ND	0.10	0.50		mg/L	5	8/5/2022 4:12:04 AM	R90047
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5		mg/L	5	8/5/2022 4:12:04 AM	R90047
Sulfate	72	1.2	2.5		mg/L	5	8/5/2022 4:12:04 AM	R90047
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	87	0	1.0	H	mg CO2/	1	8/5/2022 4:13:43 PM	R90076
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	95.24	20.00	20.00		mg/L Ca	1	8/5/2022 4:13:43 PM	R90076
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/5/2022 4:13:43 PM	R90076
Total Alkalinity (as CaCO3)	95.24	20.00	20.00		mg/L Ca	1	8/5/2022 4:13:43 PM	R90076
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	252	40.0	40.0	D	mg/L	1	8/11/2022 9:39:00 AM	69346

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208248-007D

Client Sample ID: N Of 45
Collection Date: 8/3/2022 9:20:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	0.22	0.0016	0.0030		mg/L	1	8/16/2022 2:29:47 PM	69513
Cadmium	ND	0.0018	0.0020		mg/L	1	8/16/2022 2:29:47 PM	69513
Chromium	0.0086	0.0020	0.0060		mg/L	1	8/16/2022 2:29:47 PM	69513
Silver	ND	0.0018	0.0050		mg/L	1	8/16/2022 2:29:47 PM	69513
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0037	0.00013	0.0010		mg/L	1	8/17/2022 5:45:22 PM	69513
Lead	0.0068	0.000061	0.00050		mg/L	1	8/17/2022 5:45:22 PM	69513
Selenium	0.0024	0.00037	0.0010		mg/L	1	8/17/2022 5:45:22 PM	69513
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	0.00010	0.000091	0.00020	J	mg/L	1	8/12/2022 1:54:00 PM	69447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: N Of 45
Project: Bloomfield Terminal
Collection Date: 8/3/2022 9:20:00 AM
Lab ID: 2208248-007E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.071	0.0011	0.0020		mg/L	1	8/23/2022 3:25:04 PM	C90525
Cadmium	ND	0.00098	0.0020		mg/L	1	8/23/2022 3:25:04 PM	C90525
Calcium	38	0.11	1.0		mg/L	1	8/23/2022 3:25:04 PM	C90525
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 3:25:04 PM	C90525
Iron	0.015	0.010	0.020	J	mg/L	1	8/23/2022 3:25:04 PM	C90525
Magnesium	5.4	0.067	1.0		mg/L	1	8/23/2022 3:25:04 PM	C90525
Manganese	0.0053	0.00058	0.0020		mg/L	1	8/23/2022 3:25:04 PM	C90525
Potassium	2.1	0.16	1.0		mg/L	1	8/23/2022 3:25:04 PM	C90525
Silver	ND	0.0013	0.0050		mg/L	1	8/23/2022 3:25:04 PM	C90525
Sodium	25	0.33	1.0		mg/L	1	8/23/2022 3:25:04 PM	C90525
Zinc	0.0052	0.0032	0.010	J	mg/L	1	8/23/2022 3:25:04 PM	C90525
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.0013	0.00012	0.0010		mg/L	1	8/13/2022 6:28:24 PM	B90280
Copper	0.0012	0.00037	0.0010		mg/L	1	8/13/2022 6:28:24 PM	B90280
Lead	ND	0.000057	0.00050		mg/L	1	8/13/2022 6:28:24 PM	B90280
Selenium	ND	0.00034	0.0010		mg/L	1	8/13/2022 6:28:24 PM	B90280
Uranium	0.00080	0.000065	0.00050		mg/L	1	8/13/2022 6:28:24 PM	B90280
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 1:56:10 PM	69447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-78-FD
Project: Bloomfield Terminal
Collection Date: 8/3/2022 11:05:00 AM
Lab ID: 2208248-008A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/9/2022 1:51:27 PM	R90135
Surr: BFB	112	0	70-130		%Rec	1	8/9/2022 1:51:27 PM	R90135
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Toluene	ND	0.20	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Naphthalene	ND	0.50	2.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Acetone	ND	2.5	10		µg/L	1	8/6/2022 8:36:00 PM	R90063
Bromobenzene	ND	0.28	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Bromoform	ND	0.31	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Bromomethane	ND	0.85	3.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
2-Butanone	ND	2.0	10		µg/L	1	8/6/2022 8:36:00 PM	R90063
Carbon disulfide	ND	0.59	10		µg/L	1	8/6/2022 8:36:00 PM	R90063
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Chloroethane	ND	0.38	2.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Chloroform	ND	0.13	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Chloromethane	ND	0.41	3.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Dibromomethane	ND	0.31	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208248-008A

Client Sample ID: MW-78-FD
Collection Date: 8/3/2022 11:05:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
2-Hexanone	ND	1.8	10		µg/L	1	8/6/2022 8:36:00 PM	R90063
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/6/2022 8:36:00 PM	R90063
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Styrene	ND	0.14	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/6/2022 8:36:00 PM	R90063
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/6/2022 8:36:00 PM	R90063
Surr: 1,2-Dichloroethane-d4	113	0	70-130		%Rec	1	8/6/2022 8:36:00 PM	R90063
Surr: 4-Bromofluorobenzene	99.1	0	70-130		%Rec	1	8/6/2022 8:36:00 PM	R90063
Surr: Dibromofluoromethane	107	0	70-130		%Rec	1	8/6/2022 8:36:00 PM	R90063
Surr: Toluene-d8	92.4	0	70-130		%Rec	1	8/6/2022 8:36:00 PM	R90063

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-78-FD
Project: Bloomfield Terminal
Collection Date: 8/3/2022 11:05:00 AM
Lab ID: 2208248-008B
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	0.055	0.016	0.064	J	mg/L	1	8/17/2022 11:16:32 PM	69306
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/17/2022 11:16:32 PM	69306
Surr: DNOP	146	0	42.2-138	S	%Rec	1	8/17/2022 11:16:32 PM	69306
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	5.7	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Acenaphthylene	ND	5.8	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Aniline	ND	6.2	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Anthracene	ND	6.3	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Azobenzene	ND	7.4	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Benz(a)anthracene	ND	4.7	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
Benzo(a)pyrene	ND	5.8	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Benzo(b)fluoranthene	ND	5.0	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Benzo(g,h,i)perylene	ND	4.2	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
Benzo(k)fluoranthene	ND	6.2	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Benzoic acid	ND	18	20		µg/L	1	8/17/2022 6:23:44 PM	69277
Benzyl alcohol	ND	4.3	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
Bis(2-chloroethoxy)methane	ND	5.7	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Bis(2-chloroethyl)ether	ND	6.2	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Bis(2-chloroisopropyl)ether	ND	4.9	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
Bis(2-ethylhexyl)phthalate	ND	8.4	10		µg/L	1	8/17/2022 6:23:44 PM	69277
4-Bromophenyl phenyl ether	ND	7.9	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Butyl benzyl phthalate	ND	8.3	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Carbazole	ND	6.2	10		µg/L	1	8/17/2022 6:23:44 PM	69277
4-Chloro-3-methylphenol	ND	4.4	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
4-Chloroaniline	ND	4.5	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
2-Chloronaphthalene	ND	5.9	10		µg/L	1	8/17/2022 6:23:44 PM	69277
2-Chlorophenol	ND	4.7	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
4-Chlorophenyl phenyl ether	ND	6.1	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Chrysene	ND	5.3	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Di-n-butyl phthalate	ND	7.7	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Di-n-octyl phthalate	ND	12	20		µg/L	1	8/17/2022 6:23:44 PM	69277
Dibenz(a,h)anthracene	ND	5.1	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Dibenzofuran	ND	6.2	10		µg/L	1	8/17/2022 6:23:44 PM	69277
1,2-Dichlorobenzene	ND	3.3	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
1,3-Dichlorobenzene	ND	3.3	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
1,4-Dichlorobenzene	ND	2.4	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
3,3´-Dichlorobenzidine	ND	6.6	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Diethyl phthalate	ND	6.0	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Dimethyl phthalate	ND	6.0	10		µg/L	1	8/17/2022 6:23:44 PM	69277
2,4-Dichlorophenol	ND	4.1	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-78-FD
Project: Bloomfield Terminal
Collection Date: 8/3/2022 11:05:00 AM
Lab ID: 2208248-008B
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
2,4-Dimethylphenol	ND	5.8	10		µg/L	1	8/17/2022 6:23:44 PM	69277
4,6-Dinitro-2-methylphenol	ND	6.8	10		µg/L	1	8/17/2022 6:23:44 PM	69277
2,4-Dinitrophenol	ND	16	20		µg/L	1	8/17/2022 6:23:44 PM	69277
2,4-Dinitrotoluene	ND	4.9	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
2,6-Dinitrotoluene	ND	7.2	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Fluoranthene	ND	7.3	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Fluorene	ND	6.5	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Hexachlorobenzene	ND	19	20		µg/L	1	8/17/2022 6:23:44 PM	69277
Hexachlorobutadiene	ND	17	20		µg/L	1	8/17/2022 6:23:44 PM	69277
Hexachlorocyclopentadiene	ND	18	20		µg/L	1	8/17/2022 6:23:44 PM	69277
Hexachloroethane	ND	14	20		µg/L	1	8/17/2022 6:23:44 PM	69277
Indeno(1,2,3-cd)pyrene	ND	5.8	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Isophorone	ND	4.3	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
1-Methylnaphthalene	ND	4.3	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
2-Methylnaphthalene	ND	4.2	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
2-Methylphenol	ND	5.0	10		µg/L	1	8/17/2022 6:23:44 PM	69277
3+4-Methylphenol	ND	5.1	10		µg/L	1	8/17/2022 6:23:44 PM	69277
N-Nitrosodi-n-propylamine	ND	4.6	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
N-Nitrosodimethylamine	ND	3.9	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
N-Nitrosodiphenylamine	ND	7.3	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Naphthalene	ND	3.2	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
2-Nitroaniline	ND	5.3	10		µg/L	1	8/17/2022 6:23:44 PM	69277
3-Nitroaniline	ND	5.7	10		µg/L	1	8/17/2022 6:23:44 PM	69277
4-Nitroaniline	ND	4.4	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
Nitrobenzene	ND	4.9	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
2-Nitrophenol	ND	5.2	10		µg/L	1	8/17/2022 6:23:44 PM	69277
4-Nitrophenol	ND	3.3	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Pentachlorophenol	ND	27	40		µg/L	1	8/17/2022 6:23:44 PM	69277
Phenanthrene	ND	8.3	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Phenol	ND	18	20		µg/L	1	8/17/2022 6:23:44 PM	69277
Pyrene	ND	7.1	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Pyridine	ND	14	40		µg/L	1	8/17/2022 6:23:44 PM	69277
1,2,4-Trichlorobenzene	ND	4.4	5.0		µg/L	1	8/17/2022 6:23:44 PM	69277
2,4,5-Trichlorophenol	ND	6.3	10		µg/L	1	8/17/2022 6:23:44 PM	69277
2,4,6-Trichlorophenol	ND	5.9	10		µg/L	1	8/17/2022 6:23:44 PM	69277
Surr: 2-Fluorophenol	47.6	0	15-84.5		%Rec	1	8/17/2022 6:23:44 PM	69277
Surr: Phenol-d5	35.7	0	15-67		%Rec	1	8/17/2022 6:23:44 PM	69277
Surr: 2,4,6-Tribromophenol	62.7	0	15-108		%Rec	1	8/17/2022 6:23:44 PM	69277
Surr: Nitrobenzene-d5	62.7	0	16.8-112		%Rec	1	8/17/2022 6:23:44 PM	69277
Surr: 2-Fluorobiphenyl	61.8	0	15-101		%Rec	1	8/17/2022 6:23:44 PM	69277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-78-FD
Project: Bloomfield Terminal
Collection Date: 8/3/2022 11:05:00 AM
Lab ID: 2208248-008B
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 4-Terphenyl-d14	81.9	0	34.4-134		%Rec	1	8/17/2022 6:23:44 PM	69277

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-78-FD
Project: Bloomfield Terminal
Collection Date: 8/3/2022 11:05:00 AM
Lab ID: 2208248-008C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.44	0.23	0.50	J	mg/L	5	8/5/2022 4:36:52 AM	R90047
Chloride	260	5.0	10	*	mg/L	20	8/5/2022 4:49:16 AM	R90047
Nitrogen, Nitrite (As N)	ND	0.057	0.50		mg/L	5	8/5/2022 4:36:52 AM	R90047
Bromide	1.1	0.25	0.50		mg/L	5	8/5/2022 4:36:52 AM	R90047
Nitrogen, Nitrate (As N)	35	0.10	0.50	*	mg/L	5	8/5/2022 4:36:52 AM	R90047
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5		mg/L	5	8/5/2022 4:36:52 AM	R90047
Sulfate	840	5.0	10	*	mg/L	20	8/5/2022 4:49:16 AM	R90047
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	270	0	1.0	H	mg CO2/	1	8/5/2022 4:22:48 PM	R90076
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	279.2	20.00	20.00		mg/L Ca	1	8/5/2022 4:22:48 PM	R90076
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/5/2022 4:22:48 PM	R90076
Total Alkalinity (as CaCO3)	279.2	20.00	20.00		mg/L Ca	1	8/5/2022 4:22:48 PM	R90076
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	2170	40.0	40.0	*D	mg/L	1	8/11/2022 9:39:00 AM	69346

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-78-FD
Project: Bloomfield Terminal
Collection Date: 8/3/2022 11:05:00 AM
Lab ID: 2208248-008D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	0.083	0.0016	0.0030		mg/L	1	8/16/2022 2:32:54 PM	69513
Cadmium	ND	0.0018	0.0020		mg/L	1	8/16/2022 2:32:54 PM	69513
Chromium	0.0056	0.0020	0.0060	J	mg/L	1	8/16/2022 2:32:54 PM	69513
Silver	0.0025	0.0018	0.0050	J	mg/L	1	8/16/2022 2:32:54 PM	69513
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0032	0.00013	0.0010		mg/L	1	8/17/2022 5:47:48 PM	69513
Lead	0.0032	0.000061	0.00050		mg/L	1	8/17/2022 5:47:48 PM	69513
Selenium	0.035	0.0019	0.0050		mg/L	5	8/23/2022 1:21:19 PM	69513
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	0.000097	0.000091	0.00020	J	mg/L	1	8/12/2022 1:58:20 PM	69447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208248**
Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-78-FD
Project: Bloomfield Terminal
Collection Date: 8/3/2022 11:05:00 AM
Lab ID: 2208248-008E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.021	0.0011	0.0020		mg/L	1	8/23/2022 3:29:17 PM	C90525
Cadmium	ND	0.00098	0.0020		mg/L	1	8/23/2022 3:29:17 PM	C90525
Calcium	240	0.57	5.0		mg/L	5	8/23/2022 3:31:20 PM	C90525
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 3:29:17 PM	C90525
Iron	ND	0.010	0.020		mg/L	1	8/23/2022 3:29:17 PM	C90525
Magnesium	51	0.067	1.0		mg/L	1	8/23/2022 3:29:17 PM	C90525
Manganese	0.055	0.00058	0.0020	*	mg/L	1	8/23/2022 3:29:17 PM	C90525
Potassium	4.2	0.16	1.0		mg/L	1	8/23/2022 3:29:17 PM	C90525
Silver	0.0048	0.0013	0.0050	J	mg/L	1	8/23/2022 3:29:17 PM	C90525
Sodium	360	1.7	5.0		mg/L	5	8/23/2022 3:31:20 PM	C90525
Zinc	0.0051	0.0032	0.010	J	mg/L	1	8/23/2022 3:29:17 PM	C90525
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.00081	0.00012	0.0010	J	mg/L	1	8/18/2022 4:42:19 PM	A90407
Copper	0.0017	0.00037	0.0010		mg/L	1	8/18/2022 4:42:19 PM	A90407
Lead	ND	0.000057	0.00050		mg/L	1	8/13/2022 6:36:30 PM	B90280
Selenium	0.040	0.00034	0.0010		mg/L	1	8/18/2022 4:42:19 PM	A90407
Uranium	0.010	0.000065	0.00050		mg/L	1	8/13/2022 6:36:30 PM	B90280
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	0.000092	0.000091	0.00020	J	mg/L	1	8/12/2022 2:00:29 PM	69447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **MB-69513**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Metals**
Client ID: **PBW**	Batch ID: **69513**	RunNo: **90350**
Prep Date: **8/15/2022**	Analysis Date: **8/16/2022**	SeqNo: **3223217** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0030								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Silver	ND	0.0050								

Sample ID: **LCS-69513**	SampType: **LCS**	TestCode: **EPA Method 200.7: Metals**
Client ID: **LCSW**	Batch ID: **69513**	RunNo: **90350**
Prep Date: **8/15/2022**	Analysis Date: **8/16/2022**	SeqNo: **3223219** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0030	0.5000	0	101	85	115			
Cadmium	0.50	0.0020	0.5000	0	99.6	85	115			
Chromium	0.50	0.0060	0.5000	0	99.9	85	115			
Silver	0.10	0.0050	0.1000	0	101	85	115			

Sample ID: **MB-69645**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Metals**
Client ID: **PBW**	Batch ID: **69645**	RunNo: **90465**
Prep Date: **8/19/2022**	Analysis Date: **8/22/2022**	SeqNo: **3230870** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0030								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Silver	ND	0.0050								

Sample ID: **LCSLL-69645**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Metals**
Client ID: **BatchQC**	Batch ID: **69645**	RunNo: **90465**
Prep Date: **8/19/2022**	Analysis Date: **8/22/2022**	SeqNo: **3230871** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0023	0.0030	0.002000	0	114	50	150			J
Cadmium	0.0025	0.0020	0.002000	0	124	50	150			
Chromium	0.0063	0.0060	0.006000	0	105	50	150			
Silver	0.0054	0.0050	0.005000	0	108	50	150			

Sample ID: **LCS-69645**	SampType: **LCS**	TestCode: **EPA Method 200.7: Metals**
Client ID: **LCSW**	Batch ID: **69645**	RunNo: **90465**
Prep Date: **8/19/2022**	Analysis Date: **8/22/2022**	SeqNo: **3230872** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**

07-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **LCS-69645** SampType: **LCS** TestCode: **EPA Method 200.7: Metals**

Client ID: **LCSW** Batch ID: **69645** RunNo: **90465**

Prep Date: **8/19/2022** Analysis Date: **8/22/2022** SeqNo: **3230872** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0030	0.5000	0	102	85	115			
Cadmium	0.49	0.0020	0.5000	0	97.6	85	115			
Chromium	0.48	0.0060	0.5000	0	96.7	85	115			
Silver	0.093	0.0050	0.1000	0	93.3	85	115			

Sample ID: **2208248-001DMS** SampType: **MS** TestCode: **EPA Method 200.7: Metals**

Client ID: **MW-51** Batch ID: **69645** RunNo: **90465**

Prep Date: **8/19/2022** Analysis Date: **8/22/2022** SeqNo: **3230911** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.69	0.0030	0.5000	0.1626	104	70	130			
Cadmium	0.48	0.0020	0.5000	0	95.7	70	130			
Chromium	0.47	0.0060	0.5000	0	94.5	70	130			
Silver	0.089	0.0050	0.1000	0	88.6	70	130			

Sample ID: **2208248-001DMSD** SampType: **MSD** TestCode: **EPA Method 200.7: Metals**

Client ID: **MW-51** Batch ID: **69645** RunNo: **90465**

Prep Date: **8/19/2022** Analysis Date: **8/22/2022** SeqNo: **3230912** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.67	0.0030	0.5000	0.1626	102	70	130	1.85	20	
Cadmium	0.48	0.0020	0.5000	0	96.4	70	130	0.741	20	
Chromium	0.47	0.0060	0.5000	0	94.9	70	130	0.347	20	
Silver	0.089	0.0050	0.1000	0	88.6	70	130	0.0910	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **MB-C** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW** Batch ID: **C90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3234015** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								
Zinc	ND	0.010								

Sample ID: **LCSLL-C** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **C90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3234016** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0017	0.0020	0.002000	0	87.4	50	150			J
Cadmium	0.0024	0.0020	0.002000	0	119	50	150			
Calcium	0.51	1.0	0.5000	0	103	50	150			J
Chromium	0.0066	0.0060	0.006000	0	110	50	150			
Iron	0.025	0.020	0.02000	0	124	50	150			
Magnesium	0.51	1.0	0.5000	0	102	50	150			J
Manganese	0.0020	0.0020	0.002000	0	101	50	150			
Potassium	0.48	1.0	0.5000	0	95.8	50	150			J
Silver	0.0051	0.0050	0.005000	0	103	50	150			
Sodium	0.58	1.0	0.5000	0	116	50	150			J
Zinc	0.0099	0.010	0.01000	0	99.0	50	150			J

Sample ID: **LCS-C** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **C90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3234017** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0020	0.5000	0	100	85	115			
Cadmium	0.52	0.0020	0.5000	0	103	85	115			
Calcium	50	1.0	50.00	0	101	85	115			
Chromium	0.51	0.0060	0.5000	0	102	85	115			
Iron	0.50	0.020	0.5000	0	101	85	115			
Magnesium	50	1.0	50.00	0	100	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **LCS-C** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **C90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3234017** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	0.50	0.0020	0.5000	0	99.7	85	115			
Potassium	50	1.0	50.00	0	99.6	85	115			
Silver	0.11	0.0050	0.1000	0	107	85	115			
Sodium	50	1.0	50.00	0	99.9	85	115			
Zinc	0.50	0.010	0.5000	0	101	85	115			

Sample ID: **2208248-001EMS** SampType: **MS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **MW-51** Batch ID: **C90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3234026** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.55	0.0020	0.5000	0.1051	89.9	70	130			
Cadmium	0.48	0.0020	0.5000	0	95.4	70	130			
Chromium	0.46	0.0060	0.5000	0	91.2	70	130			
Iron	0.46	0.020	0.5000	0.01285	90.2	70	130			
Magnesium	65	1.0	50.00	16.44	97.4	70	130			
Potassium	51	1.0	50.00	1.858	97.5	70	130			
Silver	0.097	0.0050	0.1000	0.002052	94.4	70	130			
Sodium	89	1.0	50.00	40.61	95.9	70	130			
Zinc	0.46	0.010	0.5000	0.006257	90.5	70	130			

Sample ID: **2208248-001EMSD** SampType: **MSD** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **MW-51** Batch ID: **C90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3234027** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.58	0.0020	0.5000	0.1051	94.1	70	130	3.72	20	
Cadmium	0.50	0.0020	0.5000	0	100	70	130	4.79	20	
Chromium	0.48	0.0060	0.5000	0	96.3	70	130	5.42	20	
Iron	0.49	0.020	0.5000	0.01285	95.3	70	130	5.33	20	
Magnesium	63	1.0	50.00	16.44	93.3	70	130	3.20	20	
Potassium	49	1.0	50.00	1.858	93.6	70	130	3.93	20	
Silver	0.10	0.0050	0.1000	0.002052	98.7	70	130	4.34	20	
Sodium	87	1.0	50.00	40.61	92.6	70	130	1.88	20	
Zinc	0.48	0.010	0.5000	0.006257	95.0	70	130	4.71	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **2208248-001EMS** SampType: **MS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **MW-51** Batch ID: **C90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3234029** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	330	5.0	250.0	81.54	99.2	70	130			
Manganese	5.0	0.010	2.500	2.613	94.7	70	130			

Sample ID: **2208248-001EMSD** SampType: **MSD** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **MW-51** Batch ID: **C90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3234030** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	330	5.0	250.0	81.54	98.4	70	130	0.631	20	
Magnesium	260	5.0	250.0	16.78	98.4	70	130	0.400	20	

Sample ID: **MB-B** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW** Batch ID: **B90598** RunNo: **90598**
Prep Date: Analysis Date: **8/25/2022** SeqNo: **3236763** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	0.020								
Sodium	ND	1.0								

Sample ID: **LLLCS-B** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **B90598** RunNo: **90598**
Prep Date: Analysis Date: **8/25/2022** SeqNo: **3236764** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.022	0.020	0.02000	0	109	50	150			
Sodium	0.41	1.0	0.5000	0	81.9	50	150			J

Sample ID: **LCS-B** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **B90598** RunNo: **90598**
Prep Date: Analysis Date: **8/25/2022** SeqNo: **3236765** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.51	0.020	0.5000	0	101	85	115			
Sodium	52	1.0	50.00	0	103	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**

07-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-69513**	SampType: **MBLK**	TestCode: **EPA 200.8: Metals**
Client ID: **PBW**	Batch ID: **69513**	RunNo: **90371**
Prep Date: **8/15/2022**	Analysis Date: **8/17/2022**	SeqNo: **3224350** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								

Sample ID: **MSLCSLL-69513**	SampType: **LCSLL**	TestCode: **EPA 200.8: Metals**
Client ID: **BatchQC**	Batch ID: **69513**	RunNo: **90371**
Prep Date: **8/15/2022**	Analysis Date: **8/17/2022**	SeqNo: **3224351** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0011	0.0010	0.001000	0	110	50	150			
Lead	0.00051	0.00050	0.0005000	0	102	50	150			
Selenium	0.00090	0.0010	0.001000	0	90.1	50	150			J

Sample ID: **MSLCS-69513**	SampType: **LCS**	TestCode: **EPA 200.8: Metals**
Client ID: **LCSW**	Batch ID: **69513**	RunNo: **90371**
Prep Date: **8/15/2022**	Analysis Date: **8/17/2022**	SeqNo: **3224352** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	101	85	115			
Lead	0.013	0.00050	0.01250	0	101	85	115			
Selenium	0.025	0.0010	0.02500	0	99.7	85	115			

Sample ID: **2208248-008DMSLL**	SampType: **MS**	TestCode: **EPA 200.8: Metals**
Client ID: **MW-78-FD**	Batch ID: **69513**	RunNo: **90371**
Prep Date: **8/15/2022**	Analysis Date: **8/17/2022**	SeqNo: **3224652** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.027	0.0010	0.02500	0.003211	96.0	70	130			
Lead	0.015	0.00050	0.01250	0.003150	97.3	70	130			

Sample ID: **2208248-008DMSDL**	SampType: **MSD**	TestCode: **EPA 200.8: Metals**
Client ID: **MW-78-FD**	Batch ID: **69513**	RunNo: **90371**
Prep Date: **8/15/2022**	Analysis Date: **8/17/2022**	SeqNo: **3224653** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.029	0.0010	0.02500	0.003211	104	70	130	7.32	20	
Lead	0.016	0.00050	0.01250	0.003150	106	70	130	7.21	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **2208248-008DMSLL** SampType: **MS** TestCode: **EPA 200.8: Metals**
Client ID: **MW-78-FD** Batch ID: **69513** RunNo: **90529**
Prep Date: **8/15/2022** Analysis Date: **8/23/2022** SeqNo: **3233268** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.055	0.0050	0.02500	0.03508	80.5	70	130			

Sample ID: **2208248-008DMSDL** SampType: **MSD** TestCode: **EPA 200.8: Metals**
Client ID: **MW-78-FD** Batch ID: **69513** RunNo: **90529**
Prep Date: **8/15/2022** Analysis Date: **8/23/2022** SeqNo: **3233269** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.051	0.0050	0.02500	0.03508	63.2	70	130	8.14	20	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **PBW** Batch ID: **A90280** RunNo: **90280**
Prep Date: Analysis Date: **8/13/2022** SeqNo: **3220144** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Copper	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Uranium	ND	0.00050								

Sample ID: **LCSLL** SampType: **LCSLL** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **A90280** RunNo: **90280**
Prep Date: Analysis Date: **8/13/2022** SeqNo: **3220145** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00078	0.0010	0.001000	0	77.8	50	150			J
Copper	0.0010	0.0010	0.001000	0	105	50	150			
Lead	0.00049	0.00050	0.0005000	0	98.2	50	150			J
Selenium	0.0012	0.0010	0.001000	0	116	50	150			
Uranium	0.00049	0.00050	0.0005000	0	98.0	50	150			J

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **LCSW** Batch ID: **A90280** RunNo: **90280**
Prep Date: Analysis Date: **8/13/2022** SeqNo: **3220146** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	99.0	85	115			
Copper	0.025	0.0010	0.02500	0	98.8	85	115			
Lead	0.012	0.00050	0.01250	0	98.8	85	115			
Selenium	0.028	0.0010	0.02500	0	113	85	115			
Uranium	0.012	0.00050	0.01250	0	97.6	85	115			

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **PBW** Batch ID: **B90280** RunNo: **90280**
Prep Date: Analysis Date: **8/13/2022** SeqNo: **3220147** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Copper	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Uranium	ND	0.00050								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**

07-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **LCSLL** SampType: **LCSLL** TestCode: **EPA 200.8: Dissolved Metals**

Client ID: **BatchQC** Batch ID: **B90280** RunNo: **90280**

Prep Date: Analysis Date: **8/13/2022** SeqNo: **3220148** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00089	0.0010	0.001000	0	89.2	50	150			J
Copper	0.0010	0.0010	0.001000	0	101	50	150			
Lead	0.00050	0.00050	0.0005000	0	101	50	150			
Selenium	0.0013	0.0010	0.001000	0	130	50	150			
Uranium	0.00049	0.00050	0.0005000	0	97.8	50	150			J

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA 200.8: Dissolved Metals**

Client ID: **LCSW** Batch ID: **B90280** RunNo: **90280**

Prep Date: Analysis Date: **8/13/2022** SeqNo: **3220149** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	98.3	85	115			
Copper	0.026	0.0010	0.02500	0	104	85	115			
Lead	0.012	0.00050	0.01250	0	98.2	85	115			
Selenium	0.028	0.0010	0.02500	0	110	85	115			
Uranium	0.012	0.00050	0.01250	0	97.2	85	115			

Sample ID: **2208248-001EMSLL** SampType: **MS** TestCode: **EPA 200.8: Dissolved Metals**

Client ID: **MW-51** Batch ID: **A90280** RunNo: **90280**

Prep Date: Analysis Date: **8/13/2022** SeqNo: **3220177** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.035	0.0010	0.02500	0.007302	111	70	130			
Copper	0.025	0.0010	0.02500	0.0009400	97.9	70	130			
Lead	0.011	0.00050	0.01250	0	86.2	70	130			
Selenium	0.029	0.0010	0.02500	0.001259	110	70	130			
Uranium	0.013	0.00050	0.01250	0.0006556	97.5	70	130			

Sample ID: **2208248-001EMSDL** SampType: **MSD** TestCode: **EPA 200.8: Dissolved Metals**

Client ID: **MW-51** Batch ID: **A90280** RunNo: **90280**

Prep Date: Analysis Date: **8/13/2022** SeqNo: **3220178** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.034	0.0010	0.02500	0.007302	107	70	130	2.69	20	
Copper	0.025	0.0010	0.02500	0.0009400	95.7	70	130	2.20	20	
Lead	0.011	0.00050	0.01250	0	84.8	70	130	1.61	20	
Selenium	0.030	0.0010	0.02500	0.001259	115	70	130	4.48	20	
Uranium	0.013	0.00050	0.01250	0.0006556	96.2	70	130	1.21	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **2208248-003EMSLL** SampType: **MS** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **MW-4** Batch ID: **B90280** RunNo: **90280**
Prep Date: Analysis Date: **8/13/2022** SeqNo: **3220181** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.038	0.0010	0.02500	0.006869	123	70	130			
Copper	0.023	0.0010	0.02500	0	91.4	70	130			
Lead	0.010	0.00050	0.01250	0.0003911	77.3	70	130			
Uranium	0.013	0.00050	0.01250	0	102	70	130			

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **PBW** Batch ID: **A90407** RunNo: **90407**
Prep Date: Analysis Date: **8/18/2022** SeqNo: **3226087** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Copper	ND	0.0010								
Selenium	ND	0.0010								
Uranium	ND	0.00050								

Sample ID: **LCSLL** SampType: **LCSLL** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **A90407** RunNo: **90407**
Prep Date: Analysis Date: **8/18/2022** SeqNo: **3226088** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0010	0.0010	0.001000	0	103	50	150			
Copper	0.0011	0.0010	0.001000	0	105	50	150			
Selenium	0.00055	0.0010	0.001000	0	54.9	50	150			J
Uranium	0.00051	0.00050	0.0005000	0	102	50	150			

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **LCSW** Batch ID: **A90407** RunNo: **90407**
Prep Date: Analysis Date: **8/18/2022** SeqNo: **3226089** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	101	85	115			
Copper	0.025	0.0010	0.02500	0	101	85	115			
Selenium	0.025	0.0010	0.02500	0	100	85	115			
Uranium	0.012	0.00050	0.01250	0	97.0	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**

07-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-69447** SampType: **MBLK** TestCode: **EPA Method 245.1: Mercury**
Client ID: **PBW** Batch ID: **69447** RunNo: **90238**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218260** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID: **LCSLL-69447** SampType: **LCSLL** TestCode: **EPA Method 245.1: Mercury**
Client ID: **BatchQC** Batch ID: **69447** RunNo: **90238**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218261** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00022	0.00020	0.0001500	0	148	50	150			

Sample ID: **LCS-69447** SampType: **LCS** TestCode: **EPA Method 245.1: Mercury**
Client ID: **LCSW** Batch ID: **69447** RunNo: **90238**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218262** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	100	85	115			

Sample ID: **2208248-001DMS** SampType: **MS** TestCode: **EPA Method 245.1: Mercury**
Client ID: **MW-51** Batch ID: **69447** RunNo: **90238**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218332** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	.00009551	95.6	75	125			

Sample ID: **2208248-001DMSD** SampType: **MSD** TestCode: **EPA Method 245.1: Mercury**
Client ID: **MW-51** Batch ID: **69447** RunNo: **90238**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218333** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	.00009551	97.3	75	125	1.79	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **MB** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R90047** RunNo: **90047**
Prep Date: Analysis Date: **8/4/2022** SeqNo: **3209268** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								

Sample ID: **LCS** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R90047** RunNo: **90047**
Prep Date: Analysis Date: **8/4/2022** SeqNo: **3209270** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.48	0.10	0.5000	0	96.4	90	110			
Chloride	4.6	0.50	5.000	0	92.9	90	110			
Nitrogen, Nitrite (As N)	0.98	0.10	1.000	0	97.7	90	110			
Bromide	2.4	0.10	2.500	0	97.3	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	100	90	110			
Phosphorus, Orthophosphate (As P	4.7	0.50	5.000	0	93.3	90	110			
Sulfate	10	0.50	10.00	0	101	90	110			

Sample ID: **2208248-001CMS** SampType: **ms** TestCode: **EPA Method 300.0: Anions**
Client ID: **MW-51** Batch ID: **R90047** RunNo: **90047**
Prep Date: Analysis Date: **8/5/2022** SeqNo: **3209293** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.79	0.10	0.5000	0.3558	87.8	79.7	110			
Chloride	13	0.50	5.000	7.725	100	86.3	114			
Nitrogen, Nitrite (As N)	0.96	0.10	1.000	0.01850	94.2	83.4	105			
Bromide	2.5	0.10	2.500	0.07250	95.6	91.2	106			
Nitrogen, Nitrate (As N)	3.4	0.10	2.500	0.9688	97.5	93.5	110			
Phosphorus, Orthophosphate (As P	4.9	0.50	5.000	0	99.0	80.1	109			
Sulfate	45	0.50	10.00	34.25	108	90.5	112			

Sample ID: **2208248-001CMSD** SampType: **msd** TestCode: **EPA Method 300.0: Anions**
Client ID: **MW-51** Batch ID: **R90047** RunNo: **90047**
Prep Date: Analysis Date: **8/5/2022** SeqNo: **3209295** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.79	0.10	0.5000	0.3558	87.4	79.7	110	0.239	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **2208248-001CMSD** SampType: **msd** TestCode: **EPA Method 300.0: Anions**
Client ID: **MW-51** Batch ID: **R90047** RunNo: **90047**
Prep Date: Analysis Date: **8/5/2022** SeqNo: **3209295** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	13	0.50	5.000	7.725	99.8	86.3	114	0.115	20	
Nitrogen, Nitrite (As N)	0.96	0.10	1.000	0.01850	93.8	83.4	105	0.459	20	
Bromide	2.5	0.10	2.500	0.07250	95.2	91.2	106	0.452	20	
Nitrogen, Nitrate (As N)	3.4	0.10	2.500	0.9688	97.2	93.5	110	0.238	20	
Phosphorus, Orthophosphate (As P	5.0	0.50	5.000	0	100	80.1	109	1.26	20	
Sulfate	45	0.50	10.00	34.25	108	90.5	112	0.0801	20	

Sample ID: **2208248-008CMS** SampType: **ms** TestCode: **EPA Method 300.0: Anions**
Client ID: **MW-78-FD** Batch ID: **R90047** RunNo: **90047**
Prep Date: Analysis Date: **8/5/2022** SeqNo: **3209315** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.7	0.50	2.500	0.4440	90.4	79.7	110			
Nitrogen, Nitrite (As N)	4.6	0.50	5.000	0	92.9	83.4	105			
Bromide	13	0.50	12.50	1.127	95.0	91.2	106			
Phosphorus, Orthophosphate (As P	22	2.5	25.00	0	89.8	80.1	109			

Sample ID: **2208248-008CMSD** SampType: **msd** TestCode: **EPA Method 300.0: Anions**
Client ID: **MW-78-FD** Batch ID: **R90047** RunNo: **90047**
Prep Date: Analysis Date: **8/5/2022** SeqNo: **3209316** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.7	0.50	2.500	0.4440	88.9	79.7	110	1.38	20	
Nitrogen, Nitrite (As N)	4.6	0.50	5.000	0	92.4	83.4	105	0.507	20	
Bromide	13	0.50	12.50	1.127	94.3	91.2	106	0.637	20	
Phosphorus, Orthophosphate (As P	23	2.5	25.00	0	90.7	80.1	109	0.987	20	

Sample ID: **MB** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R90519** RunNo: **90519**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3232499** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

Sample ID: **LCS** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R90519** RunNo: **90519**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3232502** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	9.6	0.50	10.00	0	95.9	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**

07-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-69280**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Diesel Range**
Client ID: **PBW**	Batch ID: **69280**	RunNo: **90269**
Prep Date: **8/5/2022**	Analysis Date: **8/16/2022**	SeqNo: **3221887** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.023	0.064								J
Motor Oil Range Organics (MRO)	ND	0.080								
Surr: DNOP	0.049		0.03750		129	42.2	138			

Sample ID: **LCS-69280**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Diesel Range**
Client ID: **LCSW**	Batch ID: **69280**	RunNo: **90269**
Prep Date: **8/5/2022**	Analysis Date: **8/16/2022**	SeqNo: **3222231** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.20	0.064	0.1875	0	109	31.7	75.4			S
Surr: DNOP	0.029		0.01875		156	42.2	138			S

Sample ID: **LCSD-69280**	SampType: **LCSD**	TestCode: **EPA Method 8015D Mod: Diesel Range**
Client ID: **LCSS02**	Batch ID: **69280**	RunNo: **90269**
Prep Date: **8/5/2022**	Analysis Date: **8/16/2022**	SeqNo: **3222232** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.21	0.064	0.1875	0	115	31.7	75.4	4.81	20	S
Surr: DNOP	0.030		0.01875		159	42.2	138	0	0	S

Sample ID: **MB-69306**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Diesel Range**
Client ID: **PBW**	Batch ID: **69306**	RunNo: **90347**
Prep Date: **8/8/2022**	Analysis Date: **8/17/2022**	SeqNo: **3226749** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.024	0.064								J
Motor Oil Range Organics (MRO)	ND	0.080								
Surr: DNOP	0.056		0.03750		150	42.2	138			S

Sample ID: **LCS-69306**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Diesel Range**
Client ID: **LCSW**	Batch ID: **69306**	RunNo: **90347**
Prep Date: **8/8/2022**	Analysis Date: **8/17/2022**	SeqNo: **3226750** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.19	0.064	0.1875	0	102	31.7	75.4			S
Surr: DNOP	0.032		0.01875		170	42.2	138			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **LCSD-69306** SampType: **LCSD** TestCode: **EPA Method 8015D Mod: Diesel Range**
Client ID: **LCSS02** Batch ID: **69306** RunNo: **90347**
Prep Date: **8/8/2022** Analysis Date: **8/17/2022** SeqNo: **3226752** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.25	0.064	0.1875	0	133	31.7	75.4	26.0	20	RS
Surr: DNOP	0.029		0.01875		152	42.2	138	0	0	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**

07-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **2.5ug gro lcs** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW** Batch ID: **A90092** RunNo: **90092**
Prep Date: Analysis Date: **8/8/2022** SeqNo: **3211834** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.54	0.050	0.5000	0	108	80	120			
Surr: BFB	42		20.00		212	70	130			S

Sample ID: **2208248-001a ms** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-51** Batch ID: **A90092** RunNo: **90092**
Prep Date: Analysis Date: **8/8/2022** SeqNo: **3211837** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.050	0.5000	0	105	70	130			
Surr: BFB	42		20.00		211	70	130			S

Sample ID: **2208248-001a msd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-51** Batch ID: **A90092** RunNo: **90092**
Prep Date: Analysis Date: **8/8/2022** SeqNo: **3211838** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.51	0.050	0.5000	0	103	70	130	1.69	20	
Surr: BFB	42		20.00		212	70	130	0	0	S

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW** Batch ID: **A90092** RunNo: **90092**
Prep Date: Analysis Date: **8/8/2022** SeqNo: **3211856** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	22		20.00		109	70	130			

Sample ID: **2.5ug gro lcs** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW** Batch ID: **R90135** RunNo: **90135**
Prep Date: Analysis Date: **8/9/2022** SeqNo: **3213366** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.53	0.050	0.5000	0	106	80	120			
Surr: BFB	42		20.00		210	70	130			S

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW** Batch ID: **R90135** RunNo: **90135**
Prep Date: Analysis Date: **8/9/2022** SeqNo: **3213387** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW** Batch ID: **R90135** RunNo: **90135**
Prep Date: Analysis Date: **8/9/2022** SeqNo: **3213387** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.011	0.050								J
Surr: BFB	21		20.00		107	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R90063** RunNo: **90063**
Prep Date: Analysis Date: **8/6/2022** SeqNo: **3210225** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	70	130			
Toluene	19	1.0	20.00	0	95.6	70	130			
Chlorobenzene	19	1.0	20.00	0	96.5	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	95.2	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	97.5	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		114	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.4		10.00		94.0	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R90063** RunNo: **90063**
Prep Date: Analysis Date: **8/6/2022** SeqNo: **3210226** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R90063**	RunNo: **90063**
Prep Date:	Analysis Date: **8/6/2022**	SeqNo: **3210226** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R90063** RunNo: **90063**
Prep Date: Analysis Date: **8/6/2022** SeqNo: **3210226** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		113	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.7	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	9.4		10.00		93.8	70	130			

Sample ID: **2208248-001ams** SampType: **MS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-51** Batch ID: **R90063** RunNo: **90063**
Prep Date: Analysis Date: **8/6/2022** SeqNo: **3210235** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	110	70	130			
Toluene	20	1.0	20.00	0	100	70	130			
Chlorobenzene	20	1.0	20.00	0	99.9	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	102	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		113	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	11		10.00		110	70	130			
Surr: Toluene-d8	9.3		10.00		93.4	70	130			

Sample ID: **2208248-001amsd** SampType: **MSD** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-51** Batch ID: **R90063** RunNo: **90063**
Prep Date: Analysis Date: **8/6/2022** SeqNo: **3210236** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130	1.42	20	
Toluene	19	1.0	20.00	0	96.5	70	130	3.51	20	
Chlorobenzene	19	1.0	20.00	0	97.0	70	130	2.93	20	
1,1-Dichloroethene	19	1.0	20.00	0	95.0	70	130	6.66	20	
Trichloroethene (TCE)	20	1.0	20.00	0	101	70	130	1.69	20	
Surr: 1,2-Dichloroethane-d4	12		10.00		116	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130	0	0	
Surr: Dibromofluoromethane	11		10.00		109	70	130	0	0	
Surr: Toluene-d8	9.3		10.00		92.8	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **mb-69277** SampType: **MBLK** TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBW** Batch ID: **69277** RunNo: **90363**
Prep Date: **8/5/2022** Analysis Date: **8/17/2022** SeqNo: **3223803** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Azobenzene	ND	10								
Benz(a)anthracene	ND	5.0								
Benzo(a)pyrene	ND	10								
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	5.0								
Benzo(k)fluoranthene	ND	10								
Benzoic acid	ND	20								
Benzyl alcohol	ND	5.0								
Bis(2-chloroethoxy)methane	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ether	ND	5.0								
Bis(2-ethylhexyl)phthalate	ND	10								
4-Bromophenyl phenyl ether	ND	10								
Butyl benzyl phthalate	ND	10								
Carbazole	ND	10								
4-Chloro-3-methylphenol	ND	5.0								
4-Chloroaniline	ND	5.0								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	5.0								
4-Chlorophenyl phenyl ether	ND	10								
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10								
Di-n-octyl phthalate	ND	20								
Dibenz(a,h)anthracene	ND	10								
Dibenzofuran	ND	10								
1,2-Dichlorobenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
3,3´-Dichlorobenzidine	ND	10								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
2,4-Dichlorophenol	ND	5.0								
2,4-Dimethylphenol	ND	10								
4,6-Dinitro-2-methylphenol	ND	10								
2,4-Dinitrophenol	ND	20								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **mb-69277** SampType: **MBLK** TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBW** Batch ID: **69277** RunNo: **90363**
Prep Date: **8/5/2022** Analysis Date: **8/17/2022** SeqNo: **3223803** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	ND	5.0								
2,6-Dinitrotoluene	ND	10								
Fluoranthene	ND	10								
Fluorene	ND	10								
Hexachlorobenzene	ND	20								
Hexachlorobutadiene	ND	20								
Hexachlorocyclopentadiene	ND	20								
Hexachloroethane	ND	20								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	5.0								
1-Methylnaphthalene	ND	5.0								
2-Methylnaphthalene	ND	5.0								
2-Methylphenol	ND	10								
3+4-Methylphenol	ND	10								
N-Nitrosodi-n-propylamine	ND	5.0								
N-Nitrosodimethylamine	ND	5.0								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	5.0								
2-Nitroaniline	ND	10								
3-Nitroaniline	ND	10								
4-Nitroaniline	ND	5.0								
Nitrobenzene	ND	5.0								
2-Nitrophenol	ND	10								
4-Nitrophenol	ND	10								
Pentachlorophenol	ND	40								
Phenanthrene	ND	10								
Phenol	ND	20								
Pyrene	ND	10								
Pyridine	ND	40								
1,2,4-Trichlorobenzene	ND	5.0								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
Surr: 2-Fluorophenol	59		200.0		29.3	15	84.5			
Surr: Phenol-d5	45		200.0		22.4	15	67			
Surr: 2,4,6-Tribromophenol	72		200.0		35.8	15	108			
Surr: Nitrobenzene-d5	37		100.0		37.0	16.8	112			
Surr: 2-Fluorobiphenyl	36		100.0		36.0	15	101			
Surr: 4-Terphenyl-d14	57		100.0		57.2	34.4	134			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **lcs-69277** SampType: **LCS** TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSW** Batch ID: **69277** RunNo: **90363**
Prep Date: **8/5/2022** Analysis Date: **8/17/2022** SeqNo: **3223804** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	63	10	100.0	0	62.7	21.3	104			
4-Chloro-3-methylphenol	130	5.0	200.0	0	66.7	31.8	104			
2-Chlorophenol	130	5.0	200.0	0	67.1	26.9	105			
1,4-Dichlorobenzene	54	5.0	100.0	0	53.6	15	89.8			
2,4-Dinitrotoluene	55	5.0	100.0	0	55.0	22.9	92.4			
N-Nitrosodi-n-propylamine	64	5.0	100.0	0	63.7	33.2	98.8			
4-Nitrophenol	84	10	200.0	0	42.0	27.4	64.2			
Pentachlorophenol	110	40	200.0	0	56.7	37.6	93			
Phenol	79	20	200.0	0	39.5	17	61.1			
Pyrene	80	10	100.0	0	80.2	61	123			
1,2,4-Trichlorobenzene	54	5.0	100.0	0	54.0	15	91.7			
Surr: 2-Fluorophenol	90		200.0		44.9	15	84.5			
Surr: Phenol-d5	72		200.0		36.1	15	67			
Surr: 2,4,6-Tribromophenol	120		200.0		58.3	15	108			
Surr: Nitrobenzene-d5	63		100.0		63.3	16.8	112			
Surr: 2-Fluorobiphenyl	60		100.0		60.2	15	101			
Surr: 4-Terphenyl-d14	85		100.0		84.7	34.4	134			

Sample ID: **2208248-001bms** SampType: **MS** TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **MW-51** Batch ID: **69277** RunNo: **90363**
Prep Date: **8/5/2022** Analysis Date: **8/17/2022** SeqNo: **3223811** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	65	10	100.0	0	64.6	15	111			
4-Chloro-3-methylphenol	130	5.0	200.0	0	64.8	15	105			
2-Chlorophenol	150	5.0	200.0	0	73.7	15	94.7			
1,4-Dichlorobenzene	67	5.0	100.0	0	67.0	15	88.5			
2,4-Dinitrotoluene	59	5.0	100.0	0	59.4	15	103			
N-Nitrosodi-n-propylamine	69	5.0	100.0	0	68.7	15	106			
4-Nitrophenol	89	10	200.0	0	44.7	15	64.6			
Pentachlorophenol	130	40	200.0	0	64.2	15	91.7			
Phenol	78	20	200.0	0	39.1	15	55.5			
Pyrene	78	10	100.0	0	78.5	15	127			
1,2,4-Trichlorobenzene	62	5.0	100.0	0	62.1	15	104			
Surr: 2-Fluorophenol	91		200.0		45.5	15	84.5			
Surr: Phenol-d5	71		200.0		35.4	15	67			
Surr: 2,4,6-Tribromophenol	130		200.0		63.4	15	108			
Surr: Nitrobenzene-d5	70		100.0		70.5	16.8	112			
Surr: 2-Fluorobiphenyl	67		100.0		66.7	15	101			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **2208248-001bms** SampType: **MS** TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **MW-51** Batch ID: **69277** RunNo: **90363**
Prep Date: **8/5/2022** Analysis Date: **8/17/2022** SeqNo: **3223811** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	94		100.0		93.6	34.4	134			

Sample ID: **2208248-001bmsd** SampType: **MSD** TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **MW-51** Batch ID: **69277** RunNo: **90363**
Prep Date: **8/5/2022** Analysis Date: **8/17/2022** SeqNo: **3223812** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	61	10	100.0	0	60.7	15	111	6.28	30.1	
4-Chloro-3-methylphenol	120	5.0	200.0	0	62.3	15	105	3.96	32.7	
2-Chlorophenol	130	5.0	200.0	0	65.6	15	94.7	11.5	36.3	
1,4-Dichlorobenzene	59	5.0	100.0	0	58.6	15	88.5	13.5	50.2	
2,4-Dinitrotoluene	54	5.0	100.0	0	54.4	15	103	8.80	41.3	
N-Nitrosodi-n-propylamine	63	5.0	100.0	0	63.1	15	106	8.45	44.4	
4-Nitrophenol	81	10	200.0	0	40.6	15	64.6	9.69	82.4	
Pentachlorophenol	100	40	200.0	0	51.9	15	91.7	21.1	61.7	
Phenol	69	20	200.0	0	34.7	15	55.5	12.1	60.7	
Pyrene	71	10	100.0	0	70.9	15	127	10.1	35.9	
1,2,4-Trichlorobenzene	58	5.0	100.0	0	57.5	15	104	7.69	39.1	
Surr: 2-Fluorophenol	88		200.0		43.8	15	84.5	0	0	
Surr: Phenol-d5	66		200.0		32.8	15	67	0	0	
Surr: 2,4,6-Tribromophenol	120		200.0		60.0	15	108	0	0	
Surr: Nitrobenzene-d5	64		100.0		64.4	16.8	112	0	0	
Surr: 2-Fluorobiphenyl	61		100.0		60.7	15	101	0	0	
Surr: 4-Terphenyl-d14	80		100.0		80.2	34.4	134	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**
07-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **mb-1 alk** SampType: **mblk** TestCode: **SM2320B: Alkalinity**
Client ID: **PBW** Batch ID: **R90076** RunNo: **90076**
Prep Date: Analysis Date: **8/5/2022** SeqNo: **3211015** Units: **mg/L CaCO3**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-1 alk** SampType: **lcs** TestCode: **SM2320B: Alkalinity**
Client ID: **LCSW** Batch ID: **R90076** RunNo: **90076**
Prep Date: Analysis Date: **8/5/2022** SeqNo: **3211016** Units: **mg/L CaCO3**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	77.72	20.00	80.00	0	97.2	90	110			

Sample ID: **mb-2 alk** SampType: **mblk** TestCode: **SM2320B: Alkalinity**
Client ID: **PBW** Batch ID: **A90137** RunNo: **90137**
Prep Date: Analysis Date: **8/9/2022** SeqNo: **3213564** Units: **mg/L CaCO3**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-2 alk** SampType: **lcs** TestCode: **SM2320B: Alkalinity**
Client ID: **LCSW** Batch ID: **A90137** RunNo: **90137**
Prep Date: Analysis Date: **8/9/2022** SeqNo: **3213565** Units: **mg/L CaCO3**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	76.48	20.00	80.00	0	95.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208248**

07-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-69346** SampType: **MBLK** TestCode: **SM2540C MOD: Total Dissolved Solids**

Client ID: **PBW** Batch ID: **69346** RunNo: **90174**

Prep Date: **8/9/2022** Analysis Date: **8/11/2022** SeqNo: **3215432** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: **LCS-69346** SampType: **LCS** TestCode: **SM2540C MOD: Total Dissolved Solids**

Client ID: **LCSW** Batch ID: **69346** RunNo: **90174**

Prep Date: **8/9/2022** Analysis Date: **8/11/2022** SeqNo: **3215433** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1040	20.0	1000	0	104	80	120			

Sample ID: **2208248-001CDUP** SampType: **DUP** TestCode: **SM2540C MOD: Total Dissolved Solids**

Client ID: **MW-51** Batch ID: **69346** RunNo: **90174**

Prep Date: **8/9/2022** Analysis Date: **8/11/2022** SeqNo: **3215435** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	426	20.0						0.468	10	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **AECOM** Work Order Number: **2208248** RcptNo: **1**

Received By: **Juan Rojas** **8/4/2022 6:30:00 AM**

Completed By: **Cheyenne Cason** **8/4/2022 8:21:35 AM**

Reviewed By: KR 8.0422

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐ SCL 8/4/22
8. Was preservative added to bottles? Yes ☑ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☑ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: 20 ~~17~~ SCL 8/4/22
(<2 or >12 unless noted)
Adjusted? yes
Checked by: SCL 8/4/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks: added ~0.5mL HNO3 to 0030 checked for proper pH <2 SCL 8/4/22

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			
2	2.0	Good	Yes			
3	0.8	Good	Yes			

Page 546 of 914

Chain-of-Custody Record

Client: AECOM

Mailing Address: 6501 Americas Pkwy STE 900
ABQ, NM 87110

Phone #: 505-358-0704

email or Fax#: tanner.gruike@aecom.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Bloomfield Terminal

Project #: 142937

Project Manager: Eddie Hubbert

Sampler: T. Gruike

On Ice: ☒ Yes ☐ No

# of Coolers: 3

Cooler Temp(including CF): See Remarks (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208248
8-3-22	0945	GW	MW-51	21	MISC.	001
8-3-22	1105	GW	MW-78	11	MISC.	002
8-3-22	1305	GW	MW-4	10	MISC.	003
8-3-22	1415	GW	MW-57	10	MISC.	004
8-3-22	1035	GW	CW 25+95	7	~~HCl/HNO3~~	005
8-3-22	1235	GW	OW 25+70	7	HCl	006
8-3-22	0920	GW	N of 45	10	MISC.	~~008~~ 007
8-3-22	1105	GW	MW-78-FD	11	MISC.	008

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	SVOCs	CO_2, Anions, AIK	TDS	Total metals	Dissolved metals
	X						X			X	X	X	X	X
	X						X			X	X	X	X	X
	X						X				X	X	X	X
	X						X				X	X	X	X
	X						X					X		
	X						X					X		
	X						X				✓	X	X	X
	X						X			X	X	X	X	X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8-3-22	1516				8/3/22	1516
8/3/22	1820			courier	8/4/22	6:30

Remarks: 0.8 to 0.2 = 1.0
1.8 to 0.2 = 2.0
0.6 to 0.2 = 0.8
005B shipped separately
MS/MSD -001 per Tanner

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Received by OCD: 5/15/2023 3:52:10 PM
Released to Imaging: 11/21/2023 10:35:22 AM

TABLE 2
Analytical Methods and Target Analytes
Facility-Wide Groundwater Monitoring Plan - June 2018
Western Refining Southwest, Inc. - Bloomfield Refinery

VOCs (EPA Method 8260B) (1) - Target List *Benzene* *Toluene* *Ethylbenzene* *Xylenes* *Methyl tert butyl ether (MTBE)*
SVOCs - (EPA Method 8270) - Method List
TPH-GRO (EPA Method 8015B) - Gasoline Range Organics
TPH-DRO (EPA Method 8015B) - Diesel Range Organics - Motor Oil Range Organics
Total Carbon Dioxide (Laboratory Calculated) - Dissolved CO2
Specific Conductivity (EPA Method 120.1 or field measurement) - Specific conductance
TDS (EPA Method 160.1 or field measurement) - Total dissolved solids
General Chemistry - Anions (EPA Method 300.0) *Fluoride* *Chloride* *Bromide* *Nitrogen, Nitrite (as N)* *Nitrogen, Nitrate (as N)* *Phosphorous, Orthophosphate (As P)* *Sulfate*
General Chemistry - Alkalinity (EPA Method 310.1) *Alkalinity, Total* *Carbonate* *Bicarbonate*

Total Recoverable Metals (EPA Method 6010B/7470) - Target List (not applicable to River Terrace Sampling Events) *Arsenic*, *Barium*, *Cadmium*, *Chromium*, *Lead*, *Mercury*, *Selenium*, *Silver* - Target List (for River Terrace Sampling Events Only) *Lead* *Mercury (DW-1 ONLY)*
Dissolved Metals (EPA Method 6010B / 7470) - Target List (for Refinery Complex, Outfalls, and River) *Arsenic*, *Barium*, *Cadmium*, *Calcium*, *Chromium*, *Copper*, *Iron*, *Lead*, *Magnesium*, *Manganese*, *Mercury*, *Potassium*, *Selenium*, *Silver*, *Sodium*, *Uranium*, *Zinc*

TPH = total petroleum hydrocarbons
GRO = gasoline range organics
VOCs = volatile organic compounds
DRO = diesel range organics
TDS = total dissolved solids

NOTES:

(1) VOCs Target List for River Terrace samples are analyzed by EPA Method 8021B per NMED's letter Approval with Direction dated June 16, 2009.

(2) Target List for San Juan River Terrace Monitoring Wells and Piezomenter Wells only, per the River Terrace Bioventing System Monitoring Plan.

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Website: www.hallenvironmental.com

September 08, 2022

Eddie Hubbert

AECOM
6501 Americas Parkway NE Suite 900
Albuquerque, NM 87110
TEL: (505) 855-7500
FAX: (505) 855-7555

RE: Bloomfield Terminal OrderNo.: 2208359

Dear Eddie Hubbert:

Hall Environmental Analysis Laboratory received 14 sample(s) on 8/5/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
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Case Narrative

WO#: **2208359**
Date: **9/8/2022**

CLIENT: AECOM
Project: Bloomfield Terminal

Analytical Notes Regarding EPA Method DRO:
The laboratory control spike (LCS) had elevated recoveries.

Analytical Notes Regarding EPA Method 8270:
The holding time for sample MW-12 was exceeded by one day due to a labortory error.

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-67
Project: Bloomfield Terminal
Collection Date: 8/4/2022 1:30:00 PM
Lab ID: 2208359-001A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/9/2022 2:15:18 PM	R90135
Surr: BFB	111	0	70-130		%Rec	1	8/9/2022 2:15:18 PM	R90135
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
Benzene	ND	0.23	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Toluene	ND	0.20	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Methyl tert-butyl ether (MTBE)	1.2	0.39	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Naphthalene	ND	0.50	2.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Acetone	3.0	2.5	10	J	µg/L	1	8/9/2022 1:33:19 PM	R90134
Bromobenzene	ND	0.28	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Bromoform	ND	0.31	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Bromomethane	ND	0.85	3.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
2-Butanone	ND	2.0	10		µg/L	1	8/9/2022 1:33:19 PM	R90134
Carbon disulfide	ND	0.59	10		µg/L	1	8/9/2022 1:33:19 PM	R90134
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Chloroethane	ND	0.38	2.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Chloroform	ND	0.13	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Chloromethane	ND	0.41	3.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Dibromomethane	ND	0.31	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-67
Project: Bloomfield Terminal
Collection Date: 8/4/2022 1:30:00 PM
Lab ID: 2208359-001A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
2-Hexanone	ND	1.8	10		µg/L	1	8/9/2022 1:33:19 PM	R90134
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/9/2022 1:33:19 PM	R90134
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Styrene	0.22	0.14	1.0	J	µg/L	1	8/9/2022 1:33:19 PM	R90134
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/9/2022 1:33:19 PM	R90134
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/9/2022 1:33:19 PM	R90134
Surr: 1,2-Dichloroethane-d4	104	0	70-130		%Rec	1	8/9/2022 1:33:19 PM	R90134
Surr: 4-Bromofluorobenzene	115	0	70-130		%Rec	1	8/9/2022 1:33:19 PM	R90134
Surr: Dibromofluoromethane	102	0	70-130		%Rec	1	8/9/2022 1:33:19 PM	R90134
Surr: Toluene-d8	99.1	0	70-130		%Rec	1	8/9/2022 1:33:19 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208359-001B

Client Sample ID: MW-67
Collection Date: 8/4/2022 1:30:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	0.78	0.016	0.064		mg/L	1	8/18/2022 12:05:48 AM	69306
Motor Oil Range Organics (MRO)	0.11	0.052	0.080		mg/L	1	8/18/2022 12:05:48 AM	69306
Surr: DNOP	146	0	42.2-138	S	%Rec	1	8/18/2022 12:05:48 AM	69306

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-67
Project: Bloomfield Terminal
Collection Date: 8/4/2022 1:30:00 PM
Lab ID: 2208359-001C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.46	0.046	0.10		mg/L	1	8/5/2022 3:35:00 PM	R90080
Chloride	19	0.25	0.50		mg/L	1	8/5/2022 3:35:00 PM	R90080
Nitrogen, Nitrite (As N)	ND	0.011	0.10		mg/L	1	8/5/2022 3:35:00 PM	R90080
Bromide	0.22	0.050	0.10		mg/L	1	8/5/2022 3:35:00 PM	R90080
Nitrogen, Nitrate (As N)	16	0.40	2.0	*	mg/L	20	8/5/2022 3:47:52 PM	R90080
Phosphorus, Orthophosphate (As P)	ND	0.25	0.50		mg/L	1	8/5/2022 3:35:00 PM	R90080
Sulfate	520	5.0	10	*	mg/L	20	8/5/2022 3:47:52 PM	R90080
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	260	0	1.0	H	mg CO2/	1	8/12/2022 7:54:45 PM	R90262
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	275.2	20.00	20.00		mg/L Ca	1	8/12/2022 7:54:45 PM	R90262
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/12/2022 7:54:45 PM	R90262
Total Alkalinity (as CaCO3)	275.2	20.00	20.00		mg/L Ca	1	8/12/2022 7:54:45 PM	R90262
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	1200	200	200	*D	mg/L	1	8/12/2022 2:13:00 PM	69430

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-67
Project: Bloomfield Terminal
Collection Date: 8/4/2022 1:30:00 PM
Lab ID: 2208359-001D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **JRR**	
Barium	0.032	0.0016	0.0030		mg/L	1	8/23/2022 4:14:51 PM	D90525
Cadmium	ND	0.0018	0.0020		mg/L	1	8/23/2022 4:14:51 PM	D90525
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 4:14:51 PM	D90525
Silver	0.0040	0.0018	0.0050	J	mg/L	1	8/23/2022 4:14:51 PM	D90525
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	ND	0.00063	0.0050		mg/L	5	8/24/2022 9:53:21 AM	A90533
Lead	ND	0.000061	0.00050		mg/L	1	8/15/2022 1:01:53 PM	B90287
Selenium	0.0067	0.0019	0.0050		mg/L	5	8/24/2022 9:53:21 AM	A90533
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/27/2022 10:07:14 AM	69804

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-67
Project: Bloomfield Terminal
Collection Date: 8/4/2022 1:30:00 PM
Lab ID: 2208359-001E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.031	0.0011	0.0020		mg/L	1	8/26/2022 2:41:43 PM	B90627
Cadmium	ND	0.00098	0.0020		mg/L	1	8/26/2022 2:41:43 PM	B90627
Calcium	200	0.57	5.0		mg/L	5	8/26/2022 2:43:56 PM	B90627
Chromium	ND	0.0020	0.0060		mg/L	1	8/26/2022 2:41:43 PM	B90627
Iron	ND	0.010	0.020		mg/L	1	8/26/2022 2:41:43 PM	B90627
Magnesium	50	0.067	1.0		mg/L	1	8/26/2022 2:41:43 PM	B90627
Manganese	0.13	0.00058	0.0020	*	mg/L	1	8/26/2022 2:41:43 PM	B90627
Potassium	3.2	0.16	1.0		mg/L	1	8/26/2022 2:41:43 PM	B90627
Silver	0.0037	0.0013	0.0050	J	mg/L	1	8/26/2022 2:41:43 PM	B90627
Sodium	220	1.7	5.0		mg/L	5	8/26/2022 2:43:56 PM	B90627
Zinc	0.0036	0.0032	0.010	J	mg/L	1	8/26/2022 2:41:43 PM	B90627
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.00039	0.00012	0.0010	J	mg/L	1	8/18/2022 4:47:41 PM	A90407
Copper	0.0010	0.00037	0.0010		mg/L	1	8/18/2022 4:47:41 PM	A90407
Lead	ND	0.000057	0.00050		mg/L	1	8/13/2022 6:41:52 PM	B90280
Selenium	0.0077	0.00034	0.0010		mg/L	1	8/18/2022 4:47:41 PM	A90407
Uranium	0.0088	0.000065	0.00050		mg/L	1	8/13/2022 6:41:52 PM	B90280
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/27/2022 10:09:23 AM	69804

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-1
Project: Bloomfield Terminal
Collection Date: 8/4/2022 12:42:00 PM
Lab ID: 2208359-002A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/9/2022 2:39:06 PM	R90135
Surr: BFB	108	0	70-130		%Rec	1	8/9/2022 2:39:06 PM	R90135
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
Benzene	ND	0.23	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Toluene	ND	0.20	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Naphthalene	ND	0.50	2.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Acetone	4.7	2.5	10	J	µg/L	1	8/9/2022 2:00:30 PM	R90134
Bromobenzene	ND	0.28	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Bromoform	ND	0.31	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Bromomethane	ND	0.85	3.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
2-Butanone	ND	2.0	10		µg/L	1	8/9/2022 2:00:30 PM	R90134
Carbon disulfide	ND	0.59	10		µg/L	1	8/9/2022 2:00:30 PM	R90134
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Chloroethane	ND	0.38	2.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Chloroform	ND	0.13	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Chloromethane	ND	0.41	3.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Dibromomethane	ND	0.31	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134

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Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208359-002A

Client Sample ID: MW-1
Collection Date: 8/4/2022 12:42:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
2-Hexanone	ND	1.8	10		µg/L	1	8/9/2022 2:00:30 PM	R90134
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/9/2022 2:00:30 PM	R90134
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Styrene	ND	0.14	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/9/2022 2:00:30 PM	R90134
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/9/2022 2:00:30 PM	R90134
Surr: 1,2-Dichloroethane-d4	114	0	70-130		%Rec	1	8/9/2022 2:00:30 PM	R90134
Surr: 4-Bromofluorobenzene	106	0	70-130		%Rec	1	8/9/2022 2:00:30 PM	R90134
Surr: Dibromofluoromethane	108	0	70-130		%Rec	1	8/9/2022 2:00:30 PM	R90134
Surr: Toluene-d8	96.8	0	70-130		%Rec	1	8/9/2022 2:00:30 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208359-002B

Client Sample ID: MW-1
Collection Date: 8/4/2022 12:42:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	0.036	0.016	0.064	J	mg/L	1	8/18/2022 12:30:23 AM	69306
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/18/2022 12:30:23 AM	69306
Surr: DNOP	140	0	42.2-138	S	%Rec	1	8/18/2022 12:30:23 AM	69306

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-1
Project: Bloomfield Terminal
Collection Date: 8/4/2022 12:42:00 PM
Lab ID: 2208359-002C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.36	0.046	0.10		mg/L	1	8/5/2022 4:00:45 PM	R90080
Chloride	7.4	0.25	0.50		mg/L	1	8/5/2022 4:00:45 PM	R90080
Nitrogen, Nitrite (As N)	0.022	0.011	0.10	J	mg/L	1	8/5/2022 4:00:45 PM	R90080
Bromide	0.066	0.050	0.10	J	mg/L	1	8/5/2022 4:00:45 PM	R90080
Nitrogen, Nitrate (As N)	0.94	0.020	0.10		mg/L	1	8/5/2022 4:00:45 PM	R90080
Phosphorus, Orthophosphate (As P)	ND	0.25	0.50		mg/L	1	8/5/2022 4:00:45 PM	R90080
Sulfate	80	5.0	10		mg/L	20	8/5/2022 4:13:36 PM	R90080
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	340	0	1.0	H	mg CO2/	1	8/12/2022 8:07:54 PM	R90262
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	372.0	20.00	20.00		mg/L Ca	1	8/12/2022 8:07:54 PM	R90262
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/12/2022 8:07:54 PM	R90262
Total Alkalinity (as CaCO3)	372.0	20.00	20.00		mg/L Ca	1	8/12/2022 8:07:54 PM	R90262
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	546	20.0	20.0	*	mg/L	1	8/12/2022 2:13:00 PM	69430

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-1
Project: Bloomfield Terminal
Collection Date: 8/4/2022 12:42:00 PM
Lab ID: 2208359-002D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **JRR**	
Barium	0.054	0.0016	0.0030		mg/L	1	8/23/2022 4:21:17 PM	D90525
Cadmium	ND	0.0018	0.0020		mg/L	1	8/23/2022 4:21:17 PM	D90525
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 4:21:17 PM	D90525
Silver	0.0027	0.0018	0.0050	J	mg/L	1	8/23/2022 4:21:17 PM	D90525
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.00052	0.00013	0.0010	J	mg/L	1	8/15/2022 1:04:34 PM	B90287
Lead	ND	0.000061	0.00050		mg/L	1	8/15/2022 1:04:34 PM	B90287
Selenium	0.00079	0.00037	0.0010	J	mg/L	1	8/24/2022 9:56:02 AM	A90533
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/27/2022 10:11:32 AM	69804

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-1
Project: Bloomfield Terminal
Collection Date: 8/4/2022 12:42:00 PM
Lab ID: 2208359-002E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.052	0.0011	0.0020		mg/L	1	8/26/2022 2:46:15 PM	B90627
Cadmium	ND	0.00098	0.0020		mg/L	1	8/26/2022 2:46:15 PM	B90627
Calcium	110	0.57	5.0		mg/L	5	8/26/2022 2:48:25 PM	B90627
Chromium	ND	0.0020	0.0060		mg/L	1	8/26/2022 2:46:15 PM	B90627
Iron	0.50	0.010	0.020	*	mg/L	1	8/26/2022 2:46:15 PM	B90627
Magnesium	23	0.067	1.0		mg/L	1	8/26/2022 2:46:15 PM	B90627
Manganese	0.12	0.00058	0.0020	*	mg/L	1	8/26/2022 2:46:15 PM	B90627
Potassium	1.8	0.16	1.0		mg/L	1	8/26/2022 2:46:15 PM	B90627
Silver	0.0017	0.0013	0.0050	J	mg/L	1	8/26/2022 2:46:15 PM	B90627
Sodium	55	0.33	1.0		mg/L	1	8/26/2022 2:46:15 PM	B90627
Zinc	0.0044	0.0032	0.010	J	mg/L	1	8/26/2022 2:46:15 PM	B90627
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.00061	0.00012	0.0010	J	mg/L	1	8/18/2022 4:50:23 PM	A90407
Copper	0.00097	0.00037	0.0010	J	mg/L	1	8/18/2022 4:50:23 PM	A90407
Lead	ND	0.000057	0.00050		mg/L	1	8/13/2022 6:44:34 PM	B90280
Selenium	0.00047	0.00034	0.0010	J	mg/L	1	8/18/2022 4:50:23 PM	A90407
Uranium	0.0031	0.000065	0.00050		mg/L	1	8/13/2022 6:44:34 PM	B90280
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/27/2022 10:13:41 AM	69804

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: CW 0+60
Project: Bloomfield Terminal
Collection Date: 8/4/2022 10:45:00 AM
Lab ID: 2208359-003A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	1.9	0.018	0.10		mg/L	2	8/9/2022 3:02:54 PM	R90135
Surr: BFB	931	0	70-130	S	%Rec	2	8/9/2022 3:02:54 PM	R90135
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
Benzene	0.74	0.23	1.0	J	µg/L	1	8/9/2022 2:27:45 PM	R90134
Toluene	ND	0.20	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
Ethylbenzene	0.99	0.21	1.0	J	µg/L	1	8/9/2022 2:27:45 PM	R90134
Methyl tert-butyl ether (MTBE)	0.91	0.39	1.0	J	µg/L	1	8/9/2022 2:27:45 PM	R90134
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
Naphthalene	160	5.0	20		µg/L	10	8/10/2022 3:51:11 PM	R90134
1-Methylnaphthalene	30	0.84	4.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
2-Methylnaphthalene	51	0.69	4.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
Acetone	5.6	2.5	10	J	µg/L	1	8/9/2022 2:27:45 PM	R90134
Bromobenzene	ND	0.28	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
Bromoform	ND	0.31	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
Bromomethane	ND	0.85	3.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
2-Butanone	ND	2.0	10		µg/L	1	8/9/2022 2:27:45 PM	R90134
Carbon disulfide	ND	0.59	10		µg/L	1	8/9/2022 2:27:45 PM	R90134
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
Chlorobenzene	0.72	0.16	1.0	J	µg/L	1	8/9/2022 2:27:45 PM	R90134
Chloroethane	ND	0.38	2.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
Chloroform	ND	0.13	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
Chloromethane	ND	0.41	3.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
Dibromomethane	ND	0.31	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
1,2-Dichlorobenzene	0.59	0.15	1.0	J	µg/L	1	8/9/2022 2:27:45 PM	R90134
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
1,4-Dichlorobenzene	0.33	0.21	1.0	J	µg/L	1	8/9/2022 2:27:45 PM	R90134
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: CW 0+60
Project: Bloomfield Terminal
Collection Date: 8/4/2022 10:45:00 AM
Lab ID: 2208359-003A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
2-Hexanone	ND	1.8	10		µg/L	1	8/9/2022 2:27:45 PM	R90134
Isopropylbenzene	130	1.8	10		µg/L	10	8/10/2022 3:51:11 PM	R90134
4-Isopropyltoluene	0.29	0.20	1.0	J	µg/L	1	8/9/2022 2:27:45 PM	R90134
4-Methyl-2-pentanone	9.0	0.88	10	J	µg/L	1	8/9/2022 2:27:45 PM	R90134
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
n-Butylbenzene	3.5	0.25	3.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
n-Propylbenzene	120	1.8	10		µg/L	10	8/10/2022 3:51:11 PM	R90134
sec-Butylbenzene	20	0.14	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
Styrene	ND	0.14	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
tert-Butylbenzene	4.1	0.24	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
1,1,2,2-Tetrachloroethane	2.0	0.27	2.0	J	µg/L	1	8/9/2022 2:27:45 PM	R90134
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/9/2022 2:27:45 PM	R90134
Xylenes, Total	0.94	0.37	1.5	J	µg/L	1	8/9/2022 2:27:45 PM	R90134
Surr: 1,2-Dichloroethane-d4	105	0	70-130		%Rec	1	8/9/2022 2:27:45 PM	R90134
Surr: 4-Bromofluorobenzene	115	0	70-130		%Rec	1	8/9/2022 2:27:45 PM	R90134
Surr: Dibromofluoromethane	98.1	0	70-130		%Rec	1	8/9/2022 2:27:45 PM	R90134
Surr: Toluene-d8	102	0	70-130		%Rec	1	8/9/2022 2:27:45 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208359-003B

Client Sample ID: CW 0+60
Collection Date: 8/4/2022 10:45:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	2.6	0.016	0.064		mg/L	1	8/18/2022 12:55:01 AM	69306
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/18/2022 12:55:01 AM	69306
Surr: DNOP	100	0	42.2-138		%Rec	1	8/18/2022 12:55:01 AM	69306

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208359-003C

Client Sample ID: CW 0+60
Collection Date: 8/4/2022 10:45:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	1060	200	200	*D	mg/L	1	8/12/2022 2:13:00 PM	69430

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-1-FB
Project: Bloomfield Terminal
Collection Date: 8/4/2022 12:42:00 PM
Lab ID: 2208359-004A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
Benzene	ND	0.23	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Toluene	ND	0.20	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Naphthalene	ND	0.50	2.0		µg/L	1	8/10/2022 2:56:56 PM	R90134
1-Methylnaphthalene	1.1	0.84	4.0	J	µg/L	1	8/9/2022 2:54:59 PM	R90134
2-Methylnaphthalene	1.8	0.69	4.0	J	µg/L	1	8/9/2022 2:54:59 PM	R90134
Acetone	5.7	2.5	10	J	µg/L	1	8/9/2022 2:54:59 PM	R90134
Bromobenzene	ND	0.28	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Bromoform	ND	0.31	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Bromomethane	ND	0.85	3.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
2-Butanone	ND	2.0	10		µg/L	1	8/9/2022 2:54:59 PM	R90134
Carbon disulfide	ND	0.59	10		µg/L	1	8/9/2022 2:54:59 PM	R90134
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Chloroethane	ND	0.38	2.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Chloroform	ND	0.13	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Chloromethane	ND	0.41	3.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Dibromomethane	ND	0.31	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-1-FB
Project: Bloomfield Terminal
Collection Date: 8/4/2022 12:42:00 PM
Lab ID: 2208359-004A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
2-Hexanone	ND	1.8	10		µg/L	1	8/9/2022 2:54:59 PM	R90134
Isopropylbenzene	0.43	0.18	1.0	J	µg/L	1	8/9/2022 2:54:59 PM	R90134
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/9/2022 2:54:59 PM	R90134
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
n-Propylbenzene	0.49	0.18	1.0	J	µg/L	1	8/9/2022 2:54:59 PM	R90134
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Styrene	ND	0.14	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/9/2022 2:54:59 PM	R90134
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/9/2022 2:54:59 PM	R90134
Surr: 1,2-Dichloroethane-d4	111	0	70-130		%Rec	1	8/9/2022 2:54:59 PM	R90134
Surr: 4-Bromofluorobenzene	104	0	70-130		%Rec	1	8/9/2022 2:54:59 PM	R90134
Surr: Dibromofluoromethane	112	0	70-130		%Rec	1	8/9/2022 2:54:59 PM	R90134
Surr: Toluene-d8	95.6	0	70-130		%Rec	1	8/9/2022 2:54:59 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: OW 0+60
Project: Bloomfield Terminal
Collection Date: 8/4/2022 10:15:00 AM
Lab ID: 2208359-005A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	0.082	0.0090	0.050		mg/L	1	8/9/2022 3:50:37 PM	R90135
Surr: BFB	120	0	70-130		%Rec	1	8/9/2022 3:50:37 PM	R90135
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
Benzene	ND	0.23	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Toluene	ND	0.20	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Methyl tert-butyl ether (MTBE)	0.50	0.39	1.0	J	µg/L	1	8/9/2022 3:22:11 PM	R90134
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Naphthalene	0.88	0.50	2.0	J	µg/L	1	8/9/2022 3:22:11 PM	R90134
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Acetone	6.1	2.5	10	J	µg/L	1	8/9/2022 3:22:11 PM	R90134
Bromobenzene	ND	0.28	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Bromoform	ND	0.31	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Bromomethane	ND	0.85	3.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
2-Butanone	3.7	2.0	10	J	µg/L	1	8/9/2022 3:22:11 PM	R90134
Carbon disulfide	ND	0.59	10		µg/L	1	8/9/2022 3:22:11 PM	R90134
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Chlorobenzene	0.22	0.16	1.0	J	µg/L	1	8/9/2022 3:22:11 PM	R90134
Chloroethane	ND	0.38	2.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Chloroform	0.23	0.13	1.0	J	µg/L	1	8/9/2022 3:22:11 PM	R90134
Chloromethane	ND	0.41	3.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Dibromomethane	ND	0.31	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: OW 0+60
Project: Bloomfield Terminal
Collection Date: 8/4/2022 10:15:00 AM
Lab ID: 2208359-005A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
2-Hexanone	ND	1.8	10		µg/L	1	8/9/2022 3:22:11 PM	R90134
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/9/2022 3:22:11 PM	R90134
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Styrene	ND	0.14	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
tert-Butylbenzene	0.26	0.24	1.0	J	µg/L	1	8/9/2022 3:22:11 PM	R90134
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
1,1,2,2-Tetrachloroethane	0.35	0.27	2.0	J	µg/L	1	8/9/2022 3:22:11 PM	R90134
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/9/2022 3:22:11 PM	R90134
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/9/2022 3:22:11 PM	R90134
Surr: 1,2-Dichloroethane-d4	112	0	70-130		%Rec	1	8/9/2022 3:22:11 PM	R90134
Surr: 4-Bromofluorobenzene	108	0	70-130		%Rec	1	8/9/2022 3:22:11 PM	R90134
Surr: Dibromofluoromethane	112	0	70-130		%Rec	1	8/9/2022 3:22:11 PM	R90134
Surr: Toluene-d8	97.6	0	70-130		%Rec	1	8/9/2022 3:22:11 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208359-005B

Client Sample ID: OW 0+60
Collection Date: 8/4/2022 10:15:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	1.1	0.016	0.064		mg/L	1	8/18/2022 1:19:37 AM	69306
Motor Oil Range Organics (MRO)	0.095	0.052	0.080		mg/L	1	8/18/2022 1:19:37 AM	69306
Surr: DNOP	148	0	42.2-138	S	%Rec	1	8/18/2022 1:19:37 AM	69306

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208359-005C

Client Sample ID: OW 0+60
Collection Date: 8/4/2022 10:15:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	1140	100	100	*D	mg/L	1	8/12/2022 2:13:00 PM	69430

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: OW 16+60
Project: Bloomfield Terminal
Collection Date: 8/4/2022 9:05:00 AM
Lab ID: 2208359-006A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	0.81	0.0090	0.050		mg/L	1	8/9/2022 4:14:24 PM	R90135
Surr: BFB	152	0	70-130	S	%Rec	1	8/9/2022 4:14:24 PM	R90135
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
Benzene	ND	0.23	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Toluene	ND	0.20	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Methyl tert-butyl ether (MTBE)	370	3.9	10		µg/L	10	8/10/2022 4:18:16 PM	R90134
1,2,4-Trimethylbenzene	0.23	0.12	1.0	J	µg/L	1	8/9/2022 3:49:25 PM	R90134
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
1,2-Dibromoethane (EDB)	0.42	0.30	1.0	J	µg/L	1	8/9/2022 3:49:25 PM	R90134
Naphthalene	1.4	0.50	2.0	J	µg/L	1	8/9/2022 3:49:25 PM	R90134
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Acetone	3.9	2.5	10	J	µg/L	1	8/9/2022 3:49:25 PM	R90134
Bromobenzene	ND	0.28	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Bromoform	ND	0.31	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Bromomethane	ND	0.85	3.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
2-Butanone	ND	2.0	10		µg/L	1	8/9/2022 3:49:25 PM	R90134
Carbon disulfide	ND	0.59	10		µg/L	1	8/9/2022 3:49:25 PM	R90134
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Chloroethane	ND	0.38	2.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Chloroform	ND	0.13	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Chloromethane	ND	0.41	3.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Dibromomethane	ND	0.31	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: OW 16+60
Project: Bloomfield Terminal
Collection Date: 8/4/2022 9:05:00 AM
Lab ID: 2208359-006A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
2-Hexanone	ND	1.8	10		µg/L	1	8/9/2022 3:49:25 PM	R90134
Isopropylbenzene	4.7	0.18	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
4-Methyl-2-pentanone	2.5	0.88	10	J	µg/L	1	8/9/2022 3:49:25 PM	R90134
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
n-Butylbenzene	0.47	0.25	3.0	J	µg/L	1	8/9/2022 3:49:25 PM	R90134
n-Propylbenzene	0.62	0.18	1.0	J	µg/L	1	8/9/2022 3:49:25 PM	R90134
sec-Butylbenzene	5.9	0.14	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Styrene	ND	0.14	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
tert-Butylbenzene	2.3	0.24	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
1,1,2,2-Tetrachloroethane	0.59	0.27	2.0	J	µg/L	1	8/9/2022 3:49:25 PM	R90134
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/9/2022 3:49:25 PM	R90134
Xylenes, Total	0.85	0.37	1.5	J	µg/L	1	8/9/2022 3:49:25 PM	R90134
Surr: 1,2-Dichloroethane-d4	127	0	70-130		%Rec	1	8/9/2022 3:49:25 PM	R90134
Surr: 4-Bromofluorobenzene	105	0	70-130		%Rec	1	8/9/2022 3:49:25 PM	R90134
Surr: Dibromofluoromethane	114	0	70-130		%Rec	1	8/9/2022 3:49:25 PM	R90134
Surr: Toluene-d8	97.5	0	70-130		%Rec	1	8/9/2022 3:49:25 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208359-006B

Client Sample ID: OW 16+60
Collection Date: 8/4/2022 9:05:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	3.7	0.016	0.064		mg/L	1	8/18/2022 1:44:15 AM	69306
Motor Oil Range Organics (MRO)	0.16	0.052	0.080		mg/L	1	8/18/2022 1:44:15 AM	69306
Surr: DNOP	131	0	42.2-138		%Rec	1	8/18/2022 1:44:15 AM	69306

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208359-006C

Client Sample ID: OW 16+60
Collection Date: 8/4/2022 9:05:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	4000	200	200	*D	mg/L	1	8/12/2022 2:13:00 PM	69430

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-68
Project: Bloomfield Terminal
Collection Date: 8/3/2022 3:00:00 PM
Lab ID: 2208359-007A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/9/2022 4:38:14 PM	R90135
Surr: BFB	103	0	70-130		%Rec	1	8/9/2022 4:38:14 PM	R90135
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
Benzene	ND	0.23	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Toluene	ND	0.20	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Methyl tert-butyl ether (MTBE)	0.52	0.39	1.0	J	µg/L	1	8/9/2022 4:16:35 PM	R90134
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Naphthalene	ND	0.50	2.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Acetone	4.5	2.5	10	J	µg/L	1	8/9/2022 4:16:35 PM	R90134
Bromobenzene	ND	0.28	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Bromoform	ND	0.31	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Bromomethane	ND	0.85	3.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
2-Butanone	ND	2.0	10		µg/L	1	8/9/2022 4:16:35 PM	R90134
Carbon disulfide	ND	0.59	10		µg/L	1	8/9/2022 4:16:35 PM	R90134
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Chloroethane	ND	0.38	2.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Chloroform	ND	0.13	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Chloromethane	ND	0.41	3.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Dibromomethane	ND	0.31	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-68
Project: Bloomfield Terminal
Collection Date: 8/3/2022 3:00:00 PM
Lab ID: 2208359-007A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
2-Hexanone	ND	1.8	10		µg/L	1	8/9/2022 4:16:35 PM	R90134
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/9/2022 4:16:35 PM	R90134
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Styrene	ND	0.14	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/9/2022 4:16:35 PM	R90134
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/9/2022 4:16:35 PM	R90134
Surr: 1,2-Dichloroethane-d4	112	0	70-130		%Rec	1	8/9/2022 4:16:35 PM	R90134
Surr: 4-Bromofluorobenzene	108	0	70-130		%Rec	1	8/9/2022 4:16:35 PM	R90134
Surr: Dibromofluoromethane	105	0	70-130		%Rec	1	8/9/2022 4:16:35 PM	R90134
Surr: Toluene-d8	98.1	0	70-130		%Rec	1	8/9/2022 4:16:35 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208359-007B

Client Sample ID: MW-68
Collection Date: 8/3/2022 3:00:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	0.022	0.016	0.064	J	mg/L	1	8/18/2022 2:08:58 AM	69306
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/18/2022 2:08:58 AM	69306
Surr: DNOP	130	0	42.2-138		%Rec	1	8/18/2022 2:08:58 AM	69306

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-68
Project: Bloomfield Terminal
Collection Date: 8/3/2022 3:00:00 PM
Lab ID: 2208359-007C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.34	0.046	0.10		mg/L	1	8/5/2022 4:26:28 PM	R90080
Chloride	24	5.0	10		mg/L	20	8/5/2022 4:39:20 PM	R90080
Bromide	0.12	0.050	0.10		mg/L	1	8/5/2022 4:26:28 PM	R90080
Phosphorus, Orthophosphate (As P)	ND	0.25	0.50	H	mg/L	1	8/5/2022 4:26:28 PM	R90080
Sulfate	220	5.0	10		mg/L	20	8/5/2022 4:39:20 PM	R90080
Nitrate+Nitrite as N	7.4	0.11	1.0		mg/L	5	8/30/2022 11:33:43 PM	A90678
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	260	0	1.0	H	mg CO2/	1	8/12/2022 8:23:33 PM	R90262
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	279.1	20.00	20.00		mg/L Ca	1	8/12/2022 8:23:33 PM	R90262
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/12/2022 8:23:33 PM	R90262
Total Alkalinity (as CaCO3)	279.1	20.00	20.00		mg/L Ca	1	8/12/2022 8:23:33 PM	R90262
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	724	20.0	20.0	*	mg/L	1	8/11/2022 3:41:00 PM	69390

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-68
Project: Bloomfield Terminal
Collection Date: 8/3/2022 3:00:00 PM
Lab ID: 2208359-007D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	0.031	0.0016	0.0030		mg/L	1	8/10/2022 3:48:53 PM	69356
Cadmium	ND	0.0018	0.0020		mg/L	1	8/10/2022 3:48:53 PM	69356
Chromium	ND	0.0020	0.0060		mg/L	1	8/10/2022 3:48:53 PM	69356
Silver	ND	0.0018	0.0050		mg/L	1	8/10/2022 3:48:53 PM	69356
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.00078	0.00013	0.0010	J	mg/L	1	8/11/2022 2:24:17 PM	69356
Lead	ND	0.000061	0.00050		mg/L	1	8/11/2022 2:24:17 PM	69356
Selenium	0.0022	0.00037	0.0010		mg/L	1	8/11/2022 2:24:17 PM	69356
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/27/2022 10:15:51 AM	69804

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-68
Project: Bloomfield Terminal
Collection Date: 8/3/2022 3:00:00 PM
Lab ID: 2208359-007E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.030	0.0011	0.0020		mg/L	1	8/26/2022 2:50:43 PM	B90627
Cadmium	ND	0.00098	0.0020		mg/L	1	8/26/2022 2:50:43 PM	B90627
Calcium	110	0.57	5.0		mg/L	5	8/26/2022 2:53:02 PM	B90627
Chromium	ND	0.0020	0.0060		mg/L	1	8/26/2022 2:50:43 PM	B90627
Iron	ND	0.010	0.020		mg/L	1	8/26/2022 2:50:43 PM	B90627
Magnesium	25	0.067	1.0		mg/L	1	8/26/2022 2:50:43 PM	B90627
Manganese	0.0088	0.00058	0.0020		mg/L	1	8/26/2022 2:50:43 PM	B90627
Potassium	2.3	0.16	1.0		mg/L	1	8/26/2022 2:50:43 PM	B90627
Silver	0.0015	0.0013	0.0050	J	mg/L	1	8/26/2022 2:50:43 PM	B90627
Sodium	96	0.33	1.0		mg/L	1	8/26/2022 2:50:43 PM	B90627
Zinc	0.0056	0.0032	0.010	J	mg/L	1	8/26/2022 2:50:43 PM	B90627
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.00087	0.00012	0.0010	J	mg/L	1	8/18/2022 4:53:04 PM	A90407
Copper	0.0015	0.00037	0.0010		mg/L	1	8/18/2022 4:53:04 PM	A90407
Lead	ND	0.000057	0.00050		mg/L	1	8/13/2022 6:47:15 PM	B90280
Selenium	0.0020	0.00034	0.0010		mg/L	1	8/18/2022 4:53:04 PM	A90407
Uranium	0.0055	0.000065	0.00050		mg/L	1	8/13/2022 6:47:15 PM	B90280
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/27/2022 10:18:01 AM	69804

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: OW 22+00
Project: Bloomfield Terminal
Collection Date: 8/3/2022 2:55:00 PM
Lab ID: 2208359-008A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/9/2022 5:01:58 PM	R90135
Surr: BFB	106	0	70-130		%Rec	1	8/9/2022 5:01:58 PM	R90135
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
Benzene	ND	0.23	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Toluene	ND	0.20	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Methyl tert-butyl ether (MTBE)	1.0	0.39	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Naphthalene	ND	0.50	2.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Acetone	4.7	2.5	10	J	µg/L	1	8/9/2022 4:43:44 PM	R90134
Bromobenzene	ND	0.28	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Bromoform	ND	0.31	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Bromomethane	ND	0.85	3.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
2-Butanone	ND	2.0	10		µg/L	1	8/9/2022 4:43:44 PM	R90134
Carbon disulfide	ND	0.59	10		µg/L	1	8/9/2022 4:43:44 PM	R90134
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Chloroethane	ND	0.38	2.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Chloroform	ND	0.13	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Chloromethane	ND	0.41	3.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Dibromomethane	ND	0.31	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: OW 22+00
Project: Bloomfield Terminal
Collection Date: 8/3/2022 2:55:00 PM
Lab ID: 2208359-008A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
2-Hexanone	ND	1.8	10		µg/L	1	8/9/2022 4:43:44 PM	R90134
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/9/2022 4:43:44 PM	R90134
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Styrene	ND	0.14	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/9/2022 4:43:44 PM	R90134
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/9/2022 4:43:44 PM	R90134
Surr: 1,2-Dichloroethane-d4	111	0	70-130		%Rec	1	8/9/2022 4:43:44 PM	R90134
Surr: 4-Bromofluorobenzene	102	0	70-130		%Rec	1	8/9/2022 4:43:44 PM	R90134
Surr: Dibromofluoromethane	109	0	70-130		%Rec	1	8/9/2022 4:43:44 PM	R90134
Surr: Toluene-d8	92.8	0	70-130		%Rec	1	8/9/2022 4:43:44 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208359-008B

Client Sample ID: OW 22+00
Collection Date: 8/3/2022 2:55:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	0.14	0.016	0.064		mg/L	1	8/18/2022 2:33:42 AM	69306
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/18/2022 2:33:42 AM	69306
Surr: DNOP	122	0	42.2-138		%Rec	1	8/18/2022 2:33:42 AM	69306

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208359-008C

Client Sample ID: OW 22+00
Collection Date: 8/3/2022 2:55:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	2030	100	100	*D	mg/L	1	8/11/2022 3:41:00 PM	69390

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: OW 23+10
Project: Bloomfield Terminal
Collection Date: 8/3/2022 3:30:00 PM
Lab ID: 2208359-009A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	0.11	0.0090	0.050		mg/L	1	8/9/2022 5:25:39 PM	R90135
Surr: BFB	101	0	70-130		%Rec	1	8/9/2022 5:25:39 PM	R90135
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
Benzene	ND	0.23	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Toluene	ND	0.20	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Methyl tert-butyl ether (MTBE)	0.62	0.39	1.0	J	µg/L	1	8/9/2022 5:10:50 PM	R90134
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
1,2-Dichloroethane (EDC)	0.52	0.25	1.0	J	µg/L	1	8/9/2022 5:10:50 PM	R90134
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Naphthalene	ND	0.50	2.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Acetone	4.9	2.5	10	J	µg/L	1	8/9/2022 5:10:50 PM	R90134
Bromobenzene	ND	0.28	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Bromoform	ND	0.31	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Bromomethane	ND	0.85	3.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
2-Butanone	ND	2.0	10		µg/L	1	8/9/2022 5:10:50 PM	R90134
Carbon disulfide	ND	0.59	10		µg/L	1	8/9/2022 5:10:50 PM	R90134
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Chloroethane	ND	0.38	2.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Chloroform	ND	0.13	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Chloromethane	ND	0.41	3.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Dibromomethane	ND	0.31	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: OW 23+10
Project: Bloomfield Terminal
Collection Date: 8/3/2022 3:30:00 PM
Lab ID: 2208359-009A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
2-Hexanone	ND	1.8	10		µg/L	1	8/9/2022 5:10:50 PM	R90134
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
4-Methyl-2-pentanone	1.1	0.88	10	J	µg/L	1	8/9/2022 5:10:50 PM	R90134
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Styrene	ND	0.14	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/9/2022 5:10:50 PM	R90134
Xylenes, Total	0.63	0.37	1.5	J	µg/L	1	8/9/2022 5:10:50 PM	R90134
Surr: 1,2-Dichloroethane-d4	128	0	70-130		%Rec	1	8/9/2022 5:10:50 PM	R90134
Surr: 4-Bromofluorobenzene	109	0	70-130		%Rec	1	8/9/2022 5:10:50 PM	R90134
Surr: Dibromofluoromethane	117	0	70-130		%Rec	1	8/9/2022 5:10:50 PM	R90134
Surr: Toluene-d8	98.3	0	70-130		%Rec	1	8/9/2022 5:10:50 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208359-009B

Client Sample ID: OW 23+10
Collection Date: 8/3/2022 3:30:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	1.4	0.017	0.066		mg/L	1	8/18/2022 5:49:07 PM	69382
Motor Oil Range Organics (MRO)	0.16	0.054	0.083		mg/L	1	8/18/2022 5:49:07 PM	69382
Surr: DNOP	115	0	42.2-138		%Rec	1	8/18/2022 5:49:07 PM	69382

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-37
Project: Bloomfield Terminal
Collection Date: 8/4/2022 12:30:00 PM
Lab ID: 2208359-010A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/9/2022 5:49:23 PM	R90135
Surr: BFB	108	0	70-130		%Rec	1	8/9/2022 5:49:23 PM	R90135
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
Benzene	ND	0.23	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Toluene	ND	0.20	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Naphthalene	ND	0.50	2.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Acetone	5.3	2.5	10	J	µg/L	1	8/9/2022 5:37:53 PM	R90134
Bromobenzene	ND	0.28	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Bromoform	ND	0.31	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Bromomethane	ND	0.85	3.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
2-Butanone	ND	2.0	10		µg/L	1	8/9/2022 5:37:53 PM	R90134
Carbon disulfide	ND	0.59	10		µg/L	1	8/9/2022 5:37:53 PM	R90134
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Chloroethane	ND	0.38	2.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Chloroform	ND	0.13	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Chloromethane	ND	0.41	3.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Dibromomethane	ND	0.31	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-37
Project: Bloomfield Terminal
Collection Date: 8/4/2022 12:30:00 PM
Lab ID: 2208359-010A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
2-Hexanone	ND	1.8	10		µg/L	1	8/9/2022 5:37:53 PM	R90134
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/9/2022 5:37:53 PM	R90134
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Styrene	ND	0.14	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/9/2022 5:37:53 PM	R90134
Xylenes, Total	0.61	0.37	1.5	J	µg/L	1	8/9/2022 5:37:53 PM	R90134
Surr: 1,2-Dichloroethane-d4	99.2	0	70-130		%Rec	1	8/9/2022 5:37:53 PM	R90134
Surr: 4-Bromofluorobenzene	106	0	70-130		%Rec	1	8/9/2022 5:37:53 PM	R90134
Surr: Dibromofluoromethane	102	0	70-130		%Rec	1	8/9/2022 5:37:53 PM	R90134
Surr: Toluene-d8	99.8	0	70-130		%Rec	1	8/9/2022 5:37:53 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Estimated value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208359-010B

Client Sample ID: MW-37
Collection Date: 8/4/2022 12:30:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	0.073	0.016	0.064		mg/L	1	8/18/2022 6:13:27 PM	69382
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/18/2022 6:13:27 PM	69382
Surr: DNOP	122	0	42.2-138		%Rec	1	8/18/2022 6:13:27 PM	69382

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-37
Project: Bloomfield Terminal
Collection Date: 8/4/2022 12:30:00 PM
Lab ID: 2208359-010C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.28	0.046	0.10		mg/L	1	8/5/2022 4:52:12 PM	R90080
Chloride	270	5.0	10	*	mg/L	20	8/5/2022 5:05:03 PM	R90080
Nitrogen, Nitrite (As N)	ND	0.011	0.10		mg/L	1	8/5/2022 4:52:12 PM	R90080
Bromide	3.8	0.050	0.10		mg/L	1	8/5/2022 4:52:12 PM	R90080
Nitrogen, Nitrate (As N)	0.072	0.020	0.10	J	mg/L	1	8/5/2022 4:52:12 PM	R90080
Phosphorus, Orthophosphate (As P)	ND	5.0	10		mg/L	20	8/5/2022 5:05:03 PM	R90080
Sulfate	2100	12	25	*	mg/L	50	8/23/2022 4:09:51 PM	R90519
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	300	0	1.0	H	mg CO2/	1	8/12/2022 8:36:44 PM	R90262
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	331.0	20.00	20.00		mg/L Ca	1	8/12/2022 8:36:44 PM	R90262
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/12/2022 8:36:44 PM	R90262
Total Alkalinity (as CaCO3)	331.0	20.00	20.00		mg/L Ca	1	8/12/2022 8:36:44 PM	R90262
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	3620	20.0	20.0	*	mg/L	1	8/12/2022 2:13:00 PM	69430

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208359-010D

Client Sample ID: MW-37
Collection Date: 8/4/2022 12:30:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	0.041	0.0016	0.0030		mg/L	1	8/10/2022 3:57:18 PM	69356
Cadmium	ND	0.0018	0.0020		mg/L	1	8/10/2022 3:57:18 PM	69356
Chromium	ND	0.0020	0.0060		mg/L	1	8/10/2022 3:57:18 PM	69356
Silver	ND	0.0018	0.0050		mg/L	1	8/10/2022 3:57:18 PM	69356
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	ND	0.00063	0.0050		mg/L	5	8/17/2022 3:38:45 PM	69356
Lead	ND	0.00031	0.0025		mg/L	5	8/11/2022 4:17:11 PM	69356
Selenium	ND	0.0019	0.0050		mg/L	5	8/17/2022 3:38:45 PM	69356
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/27/2022 10:20:08 AM	69804

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-37
Project: Bloomfield Terminal
Collection Date: 8/4/2022 12:30:00 PM
Lab ID: 2208359-010E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.029	0.0011	0.0020		mg/L	1	8/26/2022 2:55:18 PM	B90627
Cadmium	ND	0.00098	0.0020		mg/L	1	8/26/2022 2:55:18 PM	B90627
Calcium	380	0.57	5.0		mg/L	5	8/26/2022 2:57:35 PM	B90627
Chromium	ND	0.0020	0.0060		mg/L	1	8/26/2022 2:55:18 PM	B90627
Iron	0.11	0.010	0.020		mg/L	1	8/26/2022 2:55:18 PM	B90627
Magnesium	62	0.067	1.0		mg/L	1	8/26/2022 2:55:18 PM	B90627
Manganese	3.2	0.0029	0.010	*	mg/L	5	8/26/2022 2:57:35 PM	B90627
Potassium	4.5	0.16	1.0		mg/L	1	8/26/2022 2:55:18 PM	B90627
Silver	0.0069	0.0013	0.0050		mg/L	1	8/26/2022 2:55:18 PM	B90627
Sodium	680	3.3	10		mg/L	10	8/30/2022 2:01:08 PM	A90720
Zinc	0.0087	0.0032	0.010	J	mg/L	1	8/26/2022 2:55:18 PM	B90627
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.00076	0.00061	0.0050	J	mg/L	5	8/18/2022 4:55:45 PM	A90407
Copper	ND	0.0018	0.0050		mg/L	5	8/18/2022 4:55:45 PM	A90407
Lead	ND	0.000057	0.00050		mg/L	1	8/13/2022 6:49:56 PM	B90280
Selenium	ND	0.0017	0.0050		mg/L	5	8/18/2022 4:55:45 PM	A90407
Uranium	0.0026	0.000065	0.00050		mg/L	1	8/13/2022 6:49:56 PM	B90280
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/27/2022 10:22:16 AM	69804

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-33
Project: Bloomfield Terminal
Collection Date: 8/4/2022 11:30:00 PM
Lab ID: 2208359-011A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/9/2022 6:13:00 PM	R90135
Surr: BFB	104	0	70-130		%Rec	1	8/9/2022 6:13:00 PM	R90135
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
Benzene	ND	0.23	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Toluene	ND	0.20	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Naphthalene	ND	0.50	2.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Acetone	5.1	2.5	10	J	µg/L	1	8/9/2022 6:04:57 PM	R90134
Bromobenzene	ND	0.28	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Bromoform	ND	0.31	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Bromomethane	ND	0.85	3.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
2-Butanone	ND	2.0	10		µg/L	1	8/9/2022 6:04:57 PM	R90134
Carbon disulfide	ND	0.59	10		µg/L	1	8/9/2022 6:04:57 PM	R90134
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Chloroethane	ND	0.38	2.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Chloroform	ND	0.13	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Chloromethane	ND	0.41	3.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Dibromomethane	ND	0.31	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-33
Project: Bloomfield Terminal
Collection Date: 8/4/2022 11:30:00 PM
Lab ID: 2208359-011A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
2-Hexanone	ND	1.8	10		µg/L	1	8/9/2022 6:04:57 PM	R90134
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/9/2022 6:04:57 PM	R90134
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Styrene	ND	0.14	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/9/2022 6:04:57 PM	R90134
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/9/2022 6:04:57 PM	R90134
Surr: 1,2-Dichloroethane-d4	111	0	70-130		%Rec	1	8/9/2022 6:04:57 PM	R90134
Surr: 4-Bromofluorobenzene	114	0	70-130		%Rec	1	8/9/2022 6:04:57 PM	R90134
Surr: Dibromofluoromethane	108	0	70-130		%Rec	1	8/9/2022 6:04:57 PM	R90134
Surr: Toluene-d8	104	0	70-130		%Rec	1	8/9/2022 6:04:57 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-33
Project: Bloomfield Terminal
Collection Date: 8/4/2022 11:30:00 PM
Lab ID: 2208359-011C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.14	0.046	0.10		mg/L	1	8/5/2022 5:43:37 PM	R90080
Chloride	190	5.0	10		mg/L	20	8/5/2022 5:56:29 PM	R90080
Nitrogen, Nitrite (As N)	ND	0.011	0.10		mg/L	1	8/5/2022 5:43:37 PM	R90080
Bromide	1.0	0.050	0.10		mg/L	1	8/5/2022 5:43:37 PM	R90080
Nitrogen, Nitrate (As N)	24	0.40	2.0	*	mg/L	20	8/5/2022 5:56:29 PM	R90080
Phosphorus, Orthophosphate (As P)	ND	5.0	10		mg/L	20	8/5/2022 5:56:29 PM	R90080
Sulfate	1800	25	50	*	mg/L	100	8/23/2022 4:22:43 PM	R90519
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	100	0	1.0	H	mg CO2/	1	8/17/2022 2:03:18 PM	R90368
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	113.2	20.00	20.00		mg/L Ca	1	8/17/2022 2:03:18 PM	R90368
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/17/2022 2:03:18 PM	R90368
Total Alkalinity (as CaCO3)	113.2	20.00	20.00		mg/L Ca	1	8/17/2022 2:03:18 PM	R90368
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	3580	20.0	20.0	*	mg/L	1	8/12/2022 2:13:00 PM	69430

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-33
Project: Bloomfield Terminal
Collection Date: 8/4/2022 11:30:00 PM
Lab ID: 2208359-011D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **JRR**	
Barium	0.014	0.0016	0.0030		mg/L	1	8/23/2022 4:23:23 PM	D90525
Cadmium	ND	0.0018	0.0020		mg/L	1	8/23/2022 4:23:23 PM	D90525
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 4:23:23 PM	D90525
Silver	0.0076	0.0018	0.0050		mg/L	1	8/23/2022 4:23:23 PM	D90525
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	ND	0.00063	0.0050		mg/L	5	8/24/2022 11:20:53 AM	A90533
Lead	ND	0.00031	0.0025		mg/L	5	8/24/2022 11:20:53 AM	A90533
Selenium	0.024	0.0019	0.0050		mg/L	5	8/24/2022 11:20:53 AM	A90533
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/27/2022 10:24:24 AM	69804

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-33
Project: Bloomfield Terminal
Collection Date: 8/4/2022 11:30:00 PM
Lab ID: 2208359-011E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.014	0.0011	0.0020		mg/L	1	8/26/2022 3:06:10 PM	B90627
Cadmium	ND	0.00098	0.0020		mg/L	1	8/26/2022 3:06:10 PM	B90627
Calcium	350	0.57	5.0		mg/L	5	8/26/2022 3:08:29 PM	B90627
Chromium	ND	0.0020	0.0060		mg/L	1	8/26/2022 3:06:10 PM	B90627
Iron	ND	0.010	0.020		mg/L	1	8/26/2022 3:06:10 PM	B90627
Magnesium	47	0.067	1.0		mg/L	1	8/26/2022 3:06:10 PM	B90627
Manganese	ND	0.00058	0.0020		mg/L	1	8/26/2022 3:06:10 PM	B90627
Potassium	4.8	0.16	1.0		mg/L	1	8/26/2022 3:06:10 PM	B90627
Silver	0.0065	0.0013	0.0050		mg/L	1	8/26/2022 3:06:10 PM	B90627
Sodium	720	3.3	10		mg/L	10	8/30/2022 2:03:26 PM	A90720
Zinc	0.0084	0.0032	0.010	J	mg/L	1	8/26/2022 3:06:10 PM	B90627
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	ND	0.00061	0.0050		mg/L	5	8/18/2022 4:58:26 PM	A90407
Copper	ND	0.0018	0.0050		mg/L	5	8/18/2022 4:58:26 PM	A90407
Lead	ND	0.000057	0.00050		mg/L	1	8/13/2022 6:52:38 PM	B90280
Selenium	0.030	0.0017	0.0050		mg/L	5	8/18/2022 4:58:26 PM	A90407
Uranium	0.0076	0.000065	0.00050		mg/L	1	8/13/2022 6:52:38 PM	B90280
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/27/2022 11:20:33 AM	69804

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-12
Project: Bloomfield Terminal
Collection Date: 8/4/2022 11:10:00 AM
Lab ID: 2208359-012A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/9/2022 6:36:40 PM	R90135
Surr: BFB	103	0	70-130		%Rec	1	8/9/2022 6:36:40 PM	R90135
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
Benzene	ND	0.23	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Toluene	ND	0.20	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Naphthalene	ND	0.50	2.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Acetone	6.3	2.5	10	J	µg/L	1	8/9/2022 6:31:59 PM	R90134
Bromobenzene	ND	0.28	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Bromoform	ND	0.31	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Bromomethane	ND	0.85	3.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
2-Butanone	ND	2.0	10		µg/L	1	8/9/2022 6:31:59 PM	R90134
Carbon disulfide	ND	0.59	10		µg/L	1	8/9/2022 6:31:59 PM	R90134
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Chloroethane	ND	0.38	2.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Chloroform	ND	0.13	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Chloromethane	ND	0.41	3.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Dibromomethane	ND	0.31	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-12
Project: Bloomfield Terminal
Collection Date: 8/4/2022 11:10:00 AM
Lab ID: 2208359-012A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
2-Hexanone	ND	1.8	10		µg/L	1	8/9/2022 6:31:59 PM	R90134
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/9/2022 6:31:59 PM	R90134
Methylene Chloride	1.7	0.50	3.0	J	µg/L	1	8/9/2022 6:31:59 PM	R90134
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Styrene	ND	0.14	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/9/2022 6:31:59 PM	R90134
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/9/2022 6:31:59 PM	R90134
Surr: 1,2-Dichloroethane-d4	110	0	70-130		%Rec	1	8/9/2022 6:31:59 PM	R90134
Surr: 4-Bromofluorobenzene	112	0	70-130		%Rec	1	8/9/2022 6:31:59 PM	R90134
Surr: Dibromofluoromethane	112	0	70-130		%Rec	1	8/9/2022 6:31:59 PM	R90134
Surr: Toluene-d8	99.4	0	70-130		%Rec	1	8/9/2022 6:31:59 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-12
Project: Bloomfield Terminal
Collection Date: 8/4/2022 11:10:00 AM
Lab ID: 2208359-012B
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	0.016	0.064		mg/L	1	8/18/2022 6:37:57 PM	69382
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/18/2022 6:37:57 PM	69382
Surr: DNOP	127	0	42.2-138		%Rec	1	8/18/2022 6:37:57 PM	69382
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	5.7	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Acenaphthylene	ND	5.8	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Aniline	ND	6.2	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Anthracene	ND	6.3	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Azobenzene	ND	7.4	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Benz(a)anthracene	ND	4.7	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Benzo(a)pyrene	ND	5.8	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Benzo(b)fluoranthene	ND	5.0	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Benzo(g,h,i)perylene	ND	4.2	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Benzo(k)fluoranthene	ND	6.2	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Benzoic acid	ND	18	20	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Benzyl alcohol	ND	4.3	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Bis(2-chloroethoxy)methane	ND	5.7	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Bis(2-chloroethyl)ether	ND	6.2	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Bis(2-chloroisopropyl)ether	ND	4.9	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Bis(2-ethylhexyl)phthalate	ND	8.4	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
4-Bromophenyl phenyl ether	ND	7.9	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Butyl benzyl phthalate	ND	8.3	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Carbazole	ND	6.2	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
4-Chloro-3-methylphenol	ND	4.4	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
4-Chloroaniline	ND	4.5	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
2-Chloronaphthalene	ND	5.9	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
2-Chlorophenol	ND	4.7	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
4-Chlorophenyl phenyl ether	ND	6.1	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Chrysene	ND	5.3	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Di-n-butyl phthalate	ND	7.7	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Di-n-octyl phthalate	ND	12	20	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Dibenz(a,h)anthracene	ND	5.1	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Dibenzofuran	ND	6.2	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
1,2-Dichlorobenzene	ND	3.3	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
1,3-Dichlorobenzene	ND	3.3	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
1,4-Dichlorobenzene	ND	2.4	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
3,3´-Dichlorobenzidine	ND	6.6	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Diethyl phthalate	ND	6.0	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Dimethyl phthalate	ND	6.0	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
2,4-Dichlorophenol	ND	4.1	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-12
Project: Bloomfield Terminal
Collection Date: 8/4/2022 11:10:00 AM
Lab ID: 2208359-012B
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
2,4-Dimethylphenol	ND	5.8	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
4,6-Dinitro-2-methylphenol	ND	6.8	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
2,4-Dinitrophenol	ND	16	20	H	µg/L	1	8/18/2022 4:10:30 PM	69456
2,4-Dinitrotoluene	ND	4.9	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
2,6-Dinitrotoluene	ND	7.2	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Fluoranthene	ND	7.3	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Fluorene	ND	6.5	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Hexachlorobenzene	ND	19	20	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Hexachlorobutadiene	ND	17	20	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Hexachlorocyclopentadiene	ND	18	20	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Hexachloroethane	ND	14	20	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Indeno(1,2,3-cd)pyrene	ND	5.8	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Isophorone	ND	4.3	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
1-Methylnaphthalene	ND	4.3	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
2-Methylnaphthalene	ND	4.2	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
2-Methylphenol	ND	5.0	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
3+4-Methylphenol	ND	5.1	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
N-Nitrosodi-n-propylamine	ND	4.6	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
N-Nitrosodimethylamine	ND	3.9	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
N-Nitrosodiphenylamine	ND	7.3	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Naphthalene	ND	3.2	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
2-Nitroaniline	ND	5.3	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
3-Nitroaniline	ND	5.7	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
4-Nitroaniline	ND	4.4	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Nitrobenzene	ND	4.9	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
2-Nitrophenol	ND	5.2	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
4-Nitrophenol	ND	3.3	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Pentachlorophenol	ND	27	40	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Phenanthrene	ND	8.3	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Phenol	ND	18	20	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Pyrene	ND	7.1	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Pyridine	ND	14	40	H	µg/L	1	8/18/2022 4:10:30 PM	69456
1,2,4-Trichlorobenzene	ND	4.4	5.0	H	µg/L	1	8/18/2022 4:10:30 PM	69456
2,4,5-Trichlorophenol	ND	6.3	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
2,4,6-Trichlorophenol	ND	5.9	10	H	µg/L	1	8/18/2022 4:10:30 PM	69456
Surr: 2-Fluorophenol	22.8	0	15-84.5	H	%Rec	1	8/18/2022 4:10:30 PM	69456
Surr: Phenol-d5	16.7	0	15-67	H	%Rec	1	8/18/2022 4:10:30 PM	69456
Surr: 2,4,6-Tribromophenol	27.9	0	15-108	H	%Rec	1	8/18/2022 4:10:30 PM	69456
Surr: Nitrobenzene-d5	30.4	0	16.8-112	H	%Rec	1	8/18/2022 4:10:30 PM	69456
Surr: 2-Fluorobiphenyl	27.9	0	15-101	H	%Rec	1	8/18/2022 4:10:30 PM	69456

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Estimated value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208359-012B

Client Sample ID: MW-12
Collection Date: 8/4/2022 11:10:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 4-Terphenyl-d14	46.6	0	34.4-134	H	%Rec	1	8/18/2022 4:10:30 PM	69456

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-12
Project: Bloomfield Terminal
Collection Date: 8/4/2022 11:10:00 AM
Lab ID: 2208359-012C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.38	0.046	0.10		mg/L	1	8/5/2022 6:09:21 PM	R90080
Chloride	3.4	0.25	0.50		mg/L	1	8/5/2022 6:09:21 PM	R90080
Nitrogen, Nitrite (As N)	ND	0.011	0.10		mg/L	1	8/5/2022 6:09:21 PM	R90080
Bromide	ND	0.050	0.10		mg/L	1	8/5/2022 6:09:21 PM	R90080
Nitrogen, Nitrate (As N)	ND	0.020	0.10		mg/L	1	8/5/2022 6:09:21 PM	R90080
Phosphorus, Orthophosphate (As P)	ND	0.25	0.50		mg/L	1	8/5/2022 6:09:21 PM	R90080
Sulfate	58	5.0	10		mg/L	20	8/5/2022 6:22:13 PM	R90080
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	130	0	1.0	H	mg CO2/	1	8/17/2022 3:55:14 PM	R90368
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	144.9	20.00	20.00		mg/L Ca	1	8/17/2022 3:55:13 PM	R90368
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/17/2022 3:55:13 PM	R90368
Total Alkalinity (as CaCO3)	144.9	20.00	20.00		mg/L Ca	1	8/17/2022 3:55:13 PM	R90368
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	264	20.0	20.0		mg/L	1	8/12/2022 2:13:00 PM	69430

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-12
Project: Bloomfield Terminal
Collection Date: 8/4/2022 11:10:00 AM
Lab ID: 2208359-012D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	0.056	0.0016	0.0030		mg/L	1	8/10/2022 4:00:33 PM	69356
Cadmium	ND	0.0018	0.0020		mg/L	1	8/10/2022 4:00:33 PM	69356
Chromium	0.060	0.0020	0.0060		mg/L	1	8/10/2022 4:00:33 PM	69356
Silver	ND	0.0018	0.0050		mg/L	1	8/10/2022 4:00:33 PM	69356
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0010	0.00013	0.0010		mg/L	1	8/11/2022 2:46:21 PM	69356
Lead	0.00039	0.000061	0.00050	J	mg/L	1	8/11/2022 2:46:21 PM	69356
Selenium	ND	0.00037	0.0010		mg/L	1	8/11/2022 2:46:21 PM	69356
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/27/2022 11:22:41 AM	69804

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-12
Project: Bloomfield Terminal
Collection Date: 8/4/2022 11:10:00 AM
Lab ID: 2208359-012E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.051	0.0011	0.0020		mg/L	1	8/26/2022 3:10:47 PM	B90627
Cadmium	ND	0.00098	0.0020		mg/L	1	8/26/2022 3:10:47 PM	B90627
Calcium	50	0.11	1.0		mg/L	1	8/26/2022 3:10:47 PM	B90627
Chromium	0.0065	0.0020	0.0060		mg/L	1	8/26/2022 3:10:47 PM	B90627
Iron	0.017	0.010	0.020	J	mg/L	1	8/26/2022 3:10:47 PM	B90627
Magnesium	7.1	0.067	1.0		mg/L	1	8/26/2022 3:10:47 PM	B90627
Manganese	0.0082	0.00058	0.0020		mg/L	1	8/26/2022 3:10:47 PM	B90627
Potassium	0.42	0.16	1.0	J	mg/L	1	8/26/2022 3:10:47 PM	B90627
Silver	ND	0.0013	0.0050		mg/L	1	8/26/2022 3:10:47 PM	B90627
Sodium	25	0.33	1.0		mg/L	1	9/6/2022 2:27:00 PM	A90845
Zinc	0.0093	0.0032	0.010	J	mg/L	1	8/26/2022 3:10:47 PM	B90627
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.00073	0.00012	0.0010	J	mg/L	1	8/18/2022 5:01:07 PM	A90407
Copper	0.00044	0.00037	0.0010	J	mg/L	1	8/18/2022 5:01:07 PM	A90407
Lead	ND	0.000057	0.00050		mg/L	1	8/13/2022 6:55:19 PM	B90280
Selenium	ND	0.00034	0.0010		mg/L	1	8/18/2022 5:01:07 PM	A90407
Uranium	0.00044	0.000065	0.00050	J	mg/L	1	8/13/2022 6:55:19 PM	B90280
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/27/2022 11:24:48 AM	69804

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-62
Project: Bloomfield Terminal
Collection Date: 8/4/2022 9:35:00 AM
Lab ID: 2208359-013A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/9/2022 7:00:17 PM	R90135
Surr: BFB	104	0	70-130		%Rec	1	8/9/2022 7:00:17 PM	R90135
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
Benzene	ND	0.23	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Toluene	ND	0.20	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Naphthalene	ND	0.50	2.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Acetone	3.0	2.5	10	J	µg/L	1	8/9/2022 6:58:58 PM	R90134
Bromobenzene	ND	0.28	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Bromoform	ND	0.31	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Bromomethane	ND	0.85	3.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
2-Butanone	ND	2.0	10		µg/L	1	8/9/2022 6:58:58 PM	R90134
Carbon disulfide	ND	0.59	10		µg/L	1	8/9/2022 6:58:58 PM	R90134
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Chloroethane	ND	0.38	2.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Chloroform	ND	0.13	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Chloromethane	ND	0.41	3.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Dibromomethane	ND	0.31	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-62
Project: Bloomfield Terminal
Collection Date: 8/4/2022 9:35:00 AM
Lab ID: 2208359-013A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
2-Hexanone	ND	1.8	10		µg/L	1	8/9/2022 6:58:58 PM	R90134
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/9/2022 6:58:58 PM	R90134
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Styrene	ND	0.14	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/9/2022 6:58:58 PM	R90134
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/9/2022 6:58:58 PM	R90134
Surr: 1,2-Dichloroethane-d4	112	0	70-130		%Rec	1	8/9/2022 6:58:58 PM	R90134
Surr: 4-Bromofluorobenzene	104	0	70-130		%Rec	1	8/9/2022 6:58:58 PM	R90134
Surr: Dibromofluoromethane	114	0	70-130		%Rec	1	8/9/2022 6:58:58 PM	R90134
Surr: Toluene-d8	99.2	0	70-130		%Rec	1	8/9/2022 6:58:58 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208359-013B

Client Sample ID: MW-62
Collection Date: 8/4/2022 9:35:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	0.020	0.016	0.064	J	mg/L	1	8/18/2022 7:02:24 PM	69382
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/18/2022 7:02:24 PM	69382
Surr: DNOP	116	0	42.2-138		%Rec	1	8/18/2022 7:02:24 PM	69382

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-62
Project: Bloomfield Terminal
Collection Date: 8/4/2022 9:35:00 AM
Lab ID: 2208359-013C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	ND	0.92	2.0		mg/L	20	8/5/2022 7:13:40 PM	R90080
Chloride	13	0.25	0.50		mg/L	1	8/5/2022 6:35:05 PM	R90080
Nitrogen, Nitrite (As N)	ND	0.011	0.10		mg/L	1	8/5/2022 6:35:05 PM	R90080
Bromide	ND	0.050	0.10		mg/L	1	8/5/2022 6:35:05 PM	R90080
Nitrogen, Nitrate (As N)	0.23	0.020	0.10		mg/L	1	8/5/2022 6:35:05 PM	R90080
Phosphorus, Orthophosphate (As P)	ND	5.0	10		mg/L	20	8/5/2022 7:13:40 PM	R90080
Sulfate	3500	50	100	*	mg/L	200	8/23/2022 4:35:36 PM	R90519
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	520	0	1.0	H	mg CO2/	1	8/17/2022 4:04:48 PM	R90368
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	540.1	20.00	20.00		mg/L Ca	1	8/17/2022 4:04:48 PM	R90368
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/17/2022 4:04:48 PM	R90368
Total Alkalinity (as CaCO3)	540.1	20.00	20.00		mg/L Ca	1	8/17/2022 4:04:48 PM	R90368
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	6010	20.0	20.0	*	mg/L	1	8/12/2022 2:13:00 PM	69430

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208359-013D

Client Sample ID: MW-62
Collection Date: 8/4/2022 9:35:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **JRR**	
Barium	0.0097	0.0016	0.0030		mg/L	1	8/25/2022 2:27:45 PM	A90598
Cadmium	ND	0.0018	0.0020		mg/L	1	8/25/2022 2:27:45 PM	A90598
Chromium	ND	0.0020	0.0060		mg/L	1	8/25/2022 2:27:45 PM	A90598
Silver	0.011	0.0018	0.0050		mg/L	1	8/25/2022 2:27:45 PM	A90598
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	ND	0.00063	0.0050		mg/L	5	8/24/2022 10:06:49 AM	A90533
Lead	ND	0.00031	0.0025		mg/L	5	8/24/2022 10:06:49 AM	A90533
Selenium	ND	0.0019	0.0050		mg/L	5	8/24/2022 10:06:49 AM	A90533
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/27/2022 11:26:57 AM	69804

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-62
Project: Bloomfield Terminal
Collection Date: 8/4/2022 9:35:00 AM
Lab ID: 2208359-013E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.0093	0.0011	0.0020		mg/L	1	8/26/2022 3:15:17 PM	B90627
Cadmium	ND	0.00098	0.0020		mg/L	1	8/26/2022 3:15:17 PM	B90627
Calcium	440	0.57	5.0		mg/L	5	8/26/2022 3:25:23 PM	B90627
Chromium	ND	0.0020	0.0060		mg/L	1	8/26/2022 3:15:17 PM	B90627
Iron	0.021	0.010	0.020		mg/L	1	8/26/2022 3:15:17 PM	B90627
Magnesium	39	0.067	1.0		mg/L	1	8/26/2022 3:15:17 PM	B90627
Manganese	1.0	0.0029	0.010	*	mg/L	5	8/26/2022 3:25:23 PM	B90627
Potassium	8.8	0.16	1.0		mg/L	1	8/26/2022 3:15:17 PM	B90627
Silver	0.0087	0.0013	0.0050		mg/L	1	8/26/2022 3:15:17 PM	B90627
Sodium	1500	17	50		mg/L	50	8/30/2022 2:05:43 PM	A90720
Zinc	0.0056	0.0032	0.010	J	mg/L	1	8/26/2022 3:15:17 PM	B90627
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	ND	0.00061	0.0050		mg/L	5	8/18/2022 5:30:18 PM	B90407
Copper	ND	0.0018	0.0050		mg/L	5	8/18/2022 5:30:18 PM	B90407
Lead	ND	0.00028	0.0025		mg/L	5	8/18/2022 5:30:18 PM	B90407
Selenium	ND	0.0017	0.0050		mg/L	5	8/18/2022 5:30:18 PM	B90407
Uranium	0.0042	0.00033	0.0025		mg/L	5	8/18/2022 5:30:18 PM	B90407
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/27/2022 11:33:23 AM	69804

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: Trip Blank
Project: Bloomfield Terminal
Collection Date:
Lab ID: 2208359-014A
Matrix: Trip Blank

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
Benzene	ND	0.23	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Toluene	ND	0.20	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Naphthalene	ND	0.50	2.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Acetone	ND	2.5	10		µg/L	1	8/10/2022 2:29:53 PM	R90134
Bromobenzene	ND	0.28	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Bromoform	ND	0.31	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Bromomethane	ND	0.85	3.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
2-Butanone	ND	2.0	10		µg/L	1	8/10/2022 2:29:53 PM	R90134
Carbon disulfide	ND	0.59	10		µg/L	1	8/10/2022 2:29:53 PM	R90134
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Chlorobenzene	0.24	0.16	1.0	J	µg/L	1	8/10/2022 2:29:53 PM	R90134
Chloroethane	ND	0.38	2.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Chloroform	3.0	0.13	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Chloromethane	ND	0.41	3.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Dibromomethane	ND	0.31	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208359**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: Trip Blank
Project: Bloomfield Terminal
Collection Date:
Lab ID: 2208359-014A
Matrix: Trip Blank

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **BRM**	
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
2-Hexanone	ND	1.8	10		µg/L	1	8/10/2022 2:29:53 PM	R90134
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/10/2022 2:29:53 PM	R90134
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Styrene	ND	0.14	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/10/2022 2:29:53 PM	R90134
Xylenes, Total	0.80	0.37	1.5	J	µg/L	1	8/10/2022 2:29:53 PM	R90134
Surr: 1,2-Dichloroethane-d4	104	0	70-130		%Rec	1	8/10/2022 2:29:53 PM	R90134
Surr: 4-Bromofluorobenzene	112	0	70-130		%Rec	1	8/10/2022 2:29:53 PM	R90134
Surr: Dibromofluoromethane	101	0	70-130		%Rec	1	8/10/2022 2:29:53 PM	R90134
Surr: Toluene-d8	97.3	0	70-130		%Rec	1	8/10/2022 2:29:53 PM	R90134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **MB-69356** SampType: **MBLK** TestCode: **EPA Method 200.7: Metals**
Client ID: **PBW** Batch ID: **69356** RunNo: **90172**
Prep Date: **8/9/2022** Analysis Date: **8/10/2022** SeqNo: **3215348** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0030								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Silver	ND	0.0050								

Sample ID: **LCSLL-69356** SampType: **LCSLL** TestCode: **EPA Method 200.7: Metals**
Client ID: **BatchQC** Batch ID: **69356** RunNo: **90172**
Prep Date: **8/9/2022** Analysis Date: **8/10/2022** SeqNo: **3215349** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0016	0.0030	0.002000	0	80.4	50	150			J
Cadmium	0.0019	0.0020	0.002000	0	92.8	50	150			J
Chromium	0.0067	0.0060	0.006000	0	111	50	150			
Silver	0.0051	0.0050	0.005000	0	102	50	150			

Sample ID: **LCS-69356** SampType: **LCS** TestCode: **EPA Method 200.7: Metals**
Client ID: **LCSW** Batch ID: **69356** RunNo: **90172**
Prep Date: **8/9/2022** Analysis Date: **8/10/2022** SeqNo: **3215350** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.47	0.0030	0.5000	0	94.1	85	115			
Cadmium	0.47	0.0020	0.5000	0	94.3	85	115			
Chromium	0.47	0.0060	0.5000	0	94.6	85	115			
Silver	0.096	0.0050	0.1000	0	95.8	85	115			

Sample ID: **MB-D** SampType: **MBLK** TestCode: **EPA Method 200.7: Metals**
Client ID: **PBW** Batch ID: **D90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3234089** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0030								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Silver	ND	0.0050								

Sample ID: **LCSLL-D** SampType: **LCSLL** TestCode: **EPA Method 200.7: Metals**
Client ID: **BatchQC** Batch ID: **D90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3234090** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **LCSLL-D** SampType: **LCSLL** TestCode: **EPA Method 200.7: Metals**
Client ID: **BatchQC** Batch ID: **D90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3234090** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0016	0.0030	0.002000	0	79.1	50	150			J
Cadmium	0.0023	0.0020	0.002000	0	114	50	150			
Chromium	0.0060	0.0060	0.006000	0	100	50	150			
Silver	0.0050	0.0050	0.005000	0	99.5	50	150			J

Sample ID: **LCS-D** SampType: **LCS** TestCode: **EPA Method 200.7: Metals**
Client ID: **LCSW** Batch ID: **D90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3234091** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0030	0.5000	0	99.8	85	115			
Cadmium	0.52	0.0020	0.5000	0	103	85	115			
Chromium	0.51	0.0060	0.5000	0	102	85	115			
Silver	0.11	0.0050	0.1000	0	107	85	115			

Sample ID: **2208359-001DMS** SampType: **MS** TestCode: **EPA Method 200.7: Metals**
Client ID: **MW-67** Batch ID: **D90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3234093** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0030	0.5000	0.03175	93.3	70	130			
Cadmium	0.50	0.0020	0.5000	0	100	70	130			
Chromium	0.47	0.0060	0.5000	0	94.4	70	130			
Silver	0.093	0.0050	0.1000	0.004047	88.7	70	130			

Sample ID: **2208359-001DMSD** SampType: **MSD** TestCode: **EPA Method 200.7: Metals**
Client ID: **MW-67** Batch ID: **D90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3234094** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0030	0.5000	0.03175	94.3	70	130	1.01	20	
Cadmium	0.51	0.0020	0.5000	0	101	70	130	0.897	20	
Chromium	0.48	0.0060	0.5000	0	95.5	70	130	1.20	20	
Silver	0.095	0.0050	0.1000	0.004047	90.8	70	130	2.30	20	

Sample ID: **MB-A** SampType: **MBLK** TestCode: **EPA Method 200.7: Metals**
Client ID: **PBW** Batch ID: **A90598** RunNo: **90598**
Prep Date: Analysis Date: **8/25/2022** SeqNo: **3236760** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **MB-A**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Metals**
Client ID: **PBW**	Batch ID: **A90598**	RunNo: **90598**
Prep Date:	Analysis Date: **8/25/2022**	SeqNo: **3236760** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0030								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Silver	ND	0.0050								

Sample ID: **LLLCS-A**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Metals**
Client ID: **BatchQC**	Batch ID: **A90598**	RunNo: **90598**
Prep Date:	Analysis Date: **8/25/2022**	SeqNo: **3236761** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0015	0.0030	0.002000	0	73.1	50	150			J
Cadmium	0.0028	0.0020	0.002000	0	138	50	150			
Chromium	0.0061	0.0060	0.006000	0	101	50	150			
Silver	0.0046	0.0050	0.005000	0	92.2	50	150			J

Sample ID: **LCS-A**	SampType: **LCS**	TestCode: **EPA Method 200.7: Metals**
Client ID: **LCSW**	Batch ID: **A90598**	RunNo: **90598**
Prep Date:	Analysis Date: **8/25/2022**	SeqNo: **3236762** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.48	0.0030	0.5000	0	96.9	85	115			
Cadmium	0.49	0.0020	0.5000	0	98.6	85	115			
Chromium	0.49	0.0060	0.5000	0	97.6	85	115			
Silver	0.10	0.0050	0.1000	0	101	85	115			

Sample ID: **2208359-013DMS**	SampType: **MS**	TestCode: **EPA Method 200.7: Metals**
Client ID: **MW-62**	Batch ID: **A90598**	RunNo: **90598**
Prep Date:	Analysis Date: **8/25/2022**	SeqNo: **3236767** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.48	0.0030	0.5000	0.009674	93.1	70	130			
Cadmium	0.49	0.0020	0.5000	0	97.1	70	130			
Chromium	0.47	0.0060	0.5000	0	93.0	70	130			
Silver	0.11	0.0050	0.1000	0.01059	102	70	130			

Sample ID: **2208359-013DMSD**	SampType: **MSD**	TestCode: **EPA Method 200.7: Metals**
Client ID: **MW-62**	Batch ID: **A90598**	RunNo: **90598**
Prep Date:	Analysis Date: **8/25/2022**	SeqNo: **3236768** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **2208359-013DMSD** SampType: **MSD** TestCode: **EPA Method 200.7: Metals**
Client ID: **MW-62** Batch ID: **A90598** RunNo: **90598**
Prep Date: Analysis Date: **8/25/2022** SeqNo: **3236768** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0030	0.5000	0.009674	96.0	70	130	2.99	20	
Cadmium	0.50	0.0020	0.5000	0	101	70	130	3.70	20	
Chromium	0.48	0.0060	0.5000	0	96.6	70	130	3.80	20	
Silver	0.12	0.0050	0.1000	0.01059	105	70	130	2.38	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **MB-A**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A90598**	RunNo: **90598**
Prep Date:	Analysis Date: **8/25/2022**	SeqNo: **3236757** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Silver	ND	0.0050								

Sample ID: **LLLCS-A**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **A90598**	RunNo: **90598**
Prep Date:	Analysis Date: **8/25/2022**	SeqNo: **3236758** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0015	0.0020	0.002000	0	73.1	50	150			J
Cadmium	0.0028	0.0020	0.002000	0	138	50	150			
Chromium	0.0061	0.0060	0.006000	0	101	50	150			
Silver	0.0046	0.0050	0.005000	0	92.2	50	150			J

Sample ID: **LCS-A**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A90598**	RunNo: **90598**
Prep Date:	Analysis Date: **8/25/2022**	SeqNo: **3236759** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.48	0.0020	0.5000	0	96.9	85	115			
Cadmium	0.49	0.0020	0.5000	0	98.6	85	115			
Chromium	0.49	0.0060	0.5000	0	97.6	85	115			
Silver	0.10	0.0050	0.1000	0	101	85	115			

Sample ID: **MB-B**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **B90627**	RunNo: **90627**
Prep Date:	Analysis Date: **8/26/2022**	SeqNo: **3238164** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **MB-B** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW** Batch ID: **B90627** RunNo: **90627**
Prep Date: Analysis Date: **8/26/2022** SeqNo: **3238164** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Zinc	ND	0.010								

Sample ID: **LLLCS-B** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **B90627** RunNo: **90627**
Prep Date: Analysis Date: **8/26/2022** SeqNo: **3238165** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0022	0.0020	0.002000	0	111	50	150			
Cadmium	0.0021	0.0020	0.002000	0	107	50	150			
Calcium	0.54	1.0	0.5000	0	109	50	150			J
Chromium	0.0060	0.0060	0.006000	0	99.8	50	150			J
Iron	0.020	0.020	0.02000	0	102	50	150			
Magnesium	0.53	1.0	0.5000	0	107	50	150			J
Manganese	0.0021	0.0020	0.002000	0	107	50	150			
Potassium	0.48	1.0	0.5000	0	97.0	50	150			J
Silver	0.0042	0.0050	0.005000	0	84.7	50	150			J
Sodium	0.47	1.0	0.5000	0	94.6	50	150			J
Zinc	0.012	0.010	0.01000	0	122	50	150			

Sample ID: **LCS-B** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **B90627** RunNo: **90627**
Prep Date: Analysis Date: **8/26/2022** SeqNo: **3238166** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0020	0.5000	0	103	85	115			
Cadmium	0.52	0.0020	0.5000	0	105	85	115			
Calcium	53	1.0	50.00	0	105	85	115			
Chromium	0.52	0.0060	0.5000	0	103	85	115			
Iron	0.52	0.020	0.5000	0	105	85	115			
Magnesium	52	1.0	50.00	0	104	85	115			
Manganese	0.51	0.0020	0.5000	0	103	85	115			
Potassium	52	1.0	50.00	0	103	85	115			
Silver	0.10	0.0050	0.1000	0	105	85	115			
Sodium	53	1.0	50.00	0	105	85	115			
Zinc	0.51	0.010	0.5000	0	102	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **2208359-013EMS** SampType: **MS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **MW-62** Batch ID: **B90627** RunNo: **90627**
Prep Date: Analysis Date: **8/26/2022** SeqNo: **3238257** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.45	0.0020	0.5000	0.009257	88.4	70	130			
Cadmium	0.55	0.0020	0.5000	0	111	70	130			
Chromium	0.50	0.0060	0.5000	0	99.1	70	130			
Iron	0.53	0.020	0.5000	0.02120	102	70	130			
Magnesium	92	1.0	50.00	38.58	107	70	130			
Potassium	64	1.0	50.00	8.841	110	70	130			
Silver	0.097	0.0050	0.1000	0.008669	88.0	70	130			
Zinc	0.50	0.010	0.5000	0.005620	98.3	70	130			

Sample ID: **2208359-013EMSD** SampType: **MSD** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **MW-62** Batch ID: **B90627** RunNo: **90627**
Prep Date: Analysis Date: **8/26/2022** SeqNo: **3238258** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.42	0.0020	0.5000	0.009257	82.1	70	130	7.25	20	
Cadmium	0.50	0.0020	0.5000	0	101	70	130	9.90	20	
Chromium	0.46	0.0060	0.5000	0	92.0	70	130	7.47	20	
Iron	0.51	0.020	0.5000	0.02120	98.0	70	130	3.58	20	
Magnesium	90	1.0	50.00	38.58	103	70	130	2.42	20	
Potassium	62	1.0	50.00	8.841	107	70	130	2.06	20	
Silver	0.098	0.0050	0.1000	0.008669	89.1	70	130	1.14	20	
Zinc	0.45	0.010	0.5000	0.005620	88.7	70	130	10.1	20	

Sample ID: **2208359-013EMS** SampType: **MS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **MW-62** Batch ID: **B90627** RunNo: **90627**
Prep Date: Analysis Date: **8/26/2022** SeqNo: **3238260** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	3.5	0.010	2.500	1.007	97.9	70	130			

Sample ID: **2208359-013EMSD** SampType: **MSD** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **MW-62** Batch ID: **B90627** RunNo: **90627**
Prep Date: Analysis Date: **8/26/2022** SeqNo: **3238261** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	3.4	0.010	2.500	1.007	95.4	70	130	1.85	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**

09-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-A** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW** Batch ID: **A90720** RunNo: **90720**
Prep Date: Analysis Date: **8/30/2022** SeqNo: **3242324** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	1.0								

Sample ID: **LCSLL-A** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **A90720** RunNo: **90720**
Prep Date: Analysis Date: **8/30/2022** SeqNo: **3242325** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	0.50	1.0	0.5000	0	100	50	150			J

Sample ID: **LCS-A** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **A90720** RunNo: **90720**
Prep Date: Analysis Date: **8/30/2022** SeqNo: **3242327** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	52	1.0	50.00	0	105	85	115			

Sample ID: **MB-A** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW** Batch ID: **A90845** RunNo: **90845**
Prep Date: Analysis Date: **9/6/2022** SeqNo: **3247434** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	1.0								

Sample ID: **LCSLL-A** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **A90845** RunNo: **90845**
Prep Date: Analysis Date: **9/6/2022** SeqNo: **3247435** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	0.47	1.0	0.5000	0	94.6	50	150			J

Sample ID: **LCS-A** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **A90845** RunNo: **90845**
Prep Date: Analysis Date: **9/6/2022** SeqNo: **3247436** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	53	1.0	50.00	0	106	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **2208359-012EMS** SampType: **MS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **MW-12** Batch ID: **A90845** RunNo: **90845**
Prep Date: Analysis Date: **9/6/2022** SeqNo: **3247448** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	78	1.0	50.00	25.20	106	70	130			

Sample ID: **2208359-012EMSD** SampType: **MSD** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **MW-12** Batch ID: **A90845** RunNo: **90845**
Prep Date: Analysis Date: **9/6/2022** SeqNo: **3247449** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	77	1.0	50.00	25.20	104	70	130	1.13	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**

09-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-69356** SampType: **MBLK** TestCode: **EPA 200.8: Metals**
Client ID: **PBW** Batch ID: **69356** RunNo: **90209**
Prep Date: **8/9/2022** Analysis Date: **8/11/2022** SeqNo: **3217018** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								

Sample ID: **MSLCSLL-69356** SampType: **LCSLL** TestCode: **EPA 200.8: Metals**
Client ID: **BatchQC** Batch ID: **69356** RunNo: **90209**
Prep Date: **8/9/2022** Analysis Date: **8/11/2022** SeqNo: **3217019** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0011	0.0010	0.001000	0	108	50	150			
Lead	0.00053	0.00050	0.0005000	0	105	50	150			
Selenium	0.00066	0.0010	0.001000	0	66.4	50	150			J

Sample ID: **MSLCS-69356** SampType: **LCS** TestCode: **EPA 200.8: Metals**
Client ID: **LCSW** Batch ID: **69356** RunNo: **90209**
Prep Date: **8/9/2022** Analysis Date: **8/11/2022** SeqNo: **3217038** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	98.6	85	115			
Lead	0.012	0.00050	0.01250	0	98.9	85	115			
Selenium	0.025	0.0010	0.02500	0	101	85	115			

Sample ID: **2208359-012DMSLL** SampType: **MS** TestCode: **EPA 200.8: Metals**
Client ID: **MW-12** Batch ID: **69356** RunNo: **90209**
Prep Date: **8/9/2022** Analysis Date: **8/11/2022** SeqNo: **3217098** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.028	0.0010	0.02500	0.001027	106	70	130			
Lead	0.013	0.00050	0.01250	0.0003870	97.1	70	130			
Selenium	0.025	0.0010	0.02500	0	98.7	70	130			

Sample ID: **2208359-012DMSDL** SampType: **MSD** TestCode: **EPA 200.8: Metals**
Client ID: **MW-12** Batch ID: **69356** RunNo: **90209**
Prep Date: **8/9/2022** Analysis Date: **8/11/2022** SeqNo: **3217099** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.026	0.0010	0.02500	0.001027	100	70	130	5.41	20	
Lead	0.012	0.00050	0.01250	0.0003870	91.1	70	130	6.24	20	
Selenium	0.026	0.0010	0.02500	0	103	70	130	4.28	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA 200.8: Metals**
Client ID: **PBW** Batch ID: **B90287** RunNo: **90287**
Prep Date: Analysis Date: **8/15/2022** SeqNo: **3220464** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.00050								

Sample ID: **LCSLL** SampType: **LCSLL** TestCode: **EPA 200.8: Metals**
Client ID: **BatchQC** Batch ID: **B90287** RunNo: **90287**
Prep Date: Analysis Date: **8/15/2022** SeqNo: **3220465** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00085	0.0010	0.001000	0	84.8	50	150			J
Lead	0.00055	0.00050	0.0005000	0	111	50	150			

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA 200.8: Metals**
Client ID: **LCSW** Batch ID: **B90287** RunNo: **90287**
Prep Date: Analysis Date: **8/15/2022** SeqNo: **3220466** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.026	0.0010	0.02500	0	104	85	115			
Lead	0.013	0.00050	0.01250	0	104	85	115			

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA 200.8: Metals**
Client ID: **PBW** Batch ID: **B90407** RunNo: **90407**
Prep Date: Analysis Date: **8/18/2022** SeqNo: **3226095** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Copper	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Uranium	ND	0.00050								

Sample ID: **LCSLL** SampType: **LCSLL** TestCode: **EPA 200.8: Metals**
Client ID: **BatchQC** Batch ID: **B90407** RunNo: **90407**
Prep Date: Analysis Date: **8/18/2022** SeqNo: **3226096** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0010	0.0010	0.001000	0	105	50	150			
Copper	0.0011	0.0010	0.001000	0	108	50	150			
Lead	0.00053	0.00050	0.0005000	0	106	50	150			
Selenium	0.0010	0.0010	0.001000	0	101	50	150			
Uranium	0.00050	0.00050	0.0005000	0	100	50	150			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**

09-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA 200.8: Metals**
Client ID: **LCSW**	Batch ID: **B90407**	RunNo: **90407**
Prep Date:	Analysis Date: **8/18/2022**	SeqNo: **3226097** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	98.8	85	115			
Copper	0.025	0.0010	0.02500	0	99.3	85	115			
Lead	0.013	0.00050	0.01250	0	101	85	115			
Selenium	0.026	0.0010	0.02500	0	105	85	115			
Uranium	0.012	0.00050	0.01250	0	96.0	85	115			

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA 200.8: Metals**
Client ID: **PBW**	Batch ID: **A90533**	RunNo: **90533**
Prep Date:	Analysis Date: **8/24/2022**	SeqNo: **3234174** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								

Sample ID: **LCLL**	SampType: **LCSLL**	TestCode: **EPA 200.8: Metals**
Client ID: **BatchQC**	Batch ID: **A90533**	RunNo: **90533**
Prep Date:	Analysis Date: **8/24/2022**	SeqNo: **3234175** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0012	0.0010	0.001000	0	119	50	150			
Lead	0.00061	0.00050	0.0005000	0	123	50	150			
Selenium	0.0012	0.0010	0.001000	0	122	50	150			

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA 200.8: Metals**
Client ID: **LCSW**	Batch ID: **A90533**	RunNo: **90533**
Prep Date:	Analysis Date: **8/24/2022**	SeqNo: **3234176** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.026	0.0010	0.02500	0	102	85	115			
Lead	0.013	0.00050	0.01250	0	102	85	115			
Selenium	0.025	0.0010	0.02500	0	102	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **PBW** Batch ID: **B90280** RunNo: **90280**
Prep Date: Analysis Date: **8/13/2022** SeqNo: **3220147** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.00050								
Uranium	ND	0.00050								

Sample ID: **LCSLL** SampType: **LCSLL** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **B90280** RunNo: **90280**
Prep Date: Analysis Date: **8/13/2022** SeqNo: **3220148** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.00050	0.00050	0.0005000	0	101	50	150			
Uranium	0.00049	0.00050	0.0005000	0	97.8	50	150			J

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **LCSW** Batch ID: **B90280** RunNo: **90280**
Prep Date: Analysis Date: **8/13/2022** SeqNo: **3220149** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.012	0.00050	0.01250	0	98.2	85	115			
Uranium	0.012	0.00050	0.01250	0	97.2	85	115			

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **PBW** Batch ID: **A90407** RunNo: **90407**
Prep Date: Analysis Date: **8/18/2022** SeqNo: **3226087** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Copper	ND	0.0010								
Selenium	ND	0.0010								

Sample ID: **LCSLL** SampType: **LCSLL** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **A90407** RunNo: **90407**
Prep Date: Analysis Date: **8/18/2022** SeqNo: **3226088** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0010	0.0010	0.001000	0	103	50	150			
Copper	0.0011	0.0010	0.001000	0	105	50	150			
Selenium	0.00055	0.0010	0.001000	0	54.9	50	150			J

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **LCSW** Batch ID: **A90407** RunNo: **90407**
Prep Date: Analysis Date: **8/18/2022** SeqNo: **3226089** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	101	85	115			
Copper	0.025	0.0010	0.02500	0	101	85	115			
Selenium	0.025	0.0010	0.02500	0	100	85	115			

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **PBW** Batch ID: **B90407** RunNo: **90407**
Prep Date: Analysis Date: **8/18/2022** SeqNo: **3226091** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Copper	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Uranium	ND	0.00050								

Sample ID: **LCSLL** SampType: **LCSLL** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **B90407** RunNo: **90407**
Prep Date: Analysis Date: **8/18/2022** SeqNo: **3226092** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0010	0.0010	0.001000	0	105	50	150			
Copper	0.0011	0.0010	0.001000	0	108	50	150			
Lead	0.00053	0.00050	0.0005000	0	106	50	150			
Selenium	0.0010	0.0010	0.001000	0	101	50	150			
Uranium	0.00050	0.00050	0.0005000	0	100	50	150			

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **LCSW** Batch ID: **B90407** RunNo: **90407**
Prep Date: Analysis Date: **8/18/2022** SeqNo: **3226093** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	98.8	85	115			
Copper	0.025	0.0010	0.02500	0	99.3	85	115			
Lead	0.013	0.00050	0.01250	0	101	85	115			
Selenium	0.026	0.0010	0.02500	0	105	85	115			
Uranium	0.012	0.00050	0.01250	0	96.0	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**

09-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **2208359-012EMSLL** SampType: **MS** TestCode: **EPA 200.8: Dissolved Metals**

Client ID: **MW-12** Batch ID: **A90407** RunNo: **90407**

Prep Date: Analysis Date: **8/18/2022** SeqNo: **3226135** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.027	0.0010	0.02500	0.0007296	107	70	130			
Copper	0.027	0.0010	0.02500	0.0004401	105	70	130			
Selenium	0.027	0.0010	0.02500	0	110	70	130			

Sample ID: **2208359-013EMSLL** SampType: **MS** TestCode: **EPA 200.8: Dissolved Metals**

Client ID: **MW-62** Batch ID: **B90407** RunNo: **90407**

Prep Date: Analysis Date: **8/18/2022** SeqNo: **3226143** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.13	0.0050	0.1250	0	107	70	130			
Copper	0.13	0.0050	0.1250	0	101	70	130			
Lead	0.062	0.0025	0.06250	0	99.8	70	130			
Selenium	0.13	0.0050	0.1250	0	104	70	130			
Uranium	0.070	0.0025	0.06250	0.004167	106	70	130			

Sample ID: **2208359-013EMSDL** SampType: **MSD** TestCode: **EPA 200.8: Dissolved Metals**

Client ID: **MW-62** Batch ID: **B90407** RunNo: **90407**

Prep Date: Analysis Date: **8/18/2022** SeqNo: **3226144** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.14	0.0050	0.1250	0	109	70	130	1.61	20	
Copper	0.13	0.0050	0.1250	0	103	70	130	2.28	20	
Lead	0.064	0.0025	0.06250	0	102	70	130	1.86	20	
Selenium	0.14	0.0050	0.1250	0	113	70	130	8.08	20	
Uranium	0.072	0.0025	0.06250	0.004167	108	70	130	1.77	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**

09-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-69804** SampType: **MBLK** TestCode: **EPA Method 245.1: Mercury**
Client ID: **PBW** Batch ID: **69804** RunNo: **90615**
Prep Date: **8/26/2022** Analysis Date: **8/27/2022** SeqNo: **3237572** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID: **LCSLL-69804** SampType: **LCSLL** TestCode: **EPA Method 245.1: Mercury**
Client ID: **BatchQC** Batch ID: **69804** RunNo: **90615**
Prep Date: **8/26/2022** Analysis Date: **8/27/2022** SeqNo: **3237573** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00017	0.00020	0.0001500	0	110	50	150			J

Sample ID: **LCS-69804** SampType: **LCS** TestCode: **EPA Method 245.1: Mercury**
Client ID: **LCSW** Batch ID: **69804** RunNo: **90615**
Prep Date: **8/26/2022** Analysis Date: **8/27/2022** SeqNo: **3237574** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0051	0.00020	0.005000	0	103	85	115			

Sample ID: **2208359-013DMS** SampType: **MS** TestCode: **EPA Method 245.1: Mercury**
Client ID: **MW-62** Batch ID: **69804** RunNo: **90615**
Prep Date: **8/26/2022** Analysis Date: **8/27/2022** SeqNo: **3237603** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0051	0.00020	0.005000	0	101	75	125			

Sample ID: **2208359-013DMSD** SampType: **MSD** TestCode: **EPA Method 245.1: Mercury**
Client ID: **MW-62** Batch ID: **69804** RunNo: **90615**
Prep Date: **8/26/2022** Analysis Date: **8/27/2022** SeqNo: **3237604** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0051	0.00020	0.005000	0	103	75	125	1.40	20	

Sample ID: **2208359-013EMS** SampType: **MS** TestCode: **EPA Method 245.1: Mercury**
Client ID: **MW-62** Batch ID: **69804** RunNo: **90615**
Prep Date: **8/26/2022** Analysis Date: **8/27/2022** SeqNo: **3237606** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0052	0.00020	0.005000	0	104	75	125			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **2208359-013EMSD** SampType: **MSD** TestCode: **EPA Method 245.1: Mercury**
Client ID: **MW-62** Batch ID: **69804** RunNo: **90615**
Prep Date: **8/26/2022** Analysis Date: **8/27/2022** SeqNo: **3237607** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0052	0.00020	0.005000	0	103	75	125	0.826	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **MB** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R90080** RunNo: **90080**
Prep Date: Analysis Date: **8/5/2022** SeqNo: **3211266** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								

Sample ID: **LCS** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R90080** RunNo: **90080**
Prep Date: Analysis Date: **8/5/2022** SeqNo: **3211267** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	101	90	110			
Chloride	4.7	0.50	5.000	0	93.4	90	110			
Nitrogen, Nitrite (As N)	0.97	0.10	1.000	0	96.8	90	110			
Bromide	2.5	0.10	2.500	0	98.1	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			
Phosphorus, Orthophosphate (As P	4.7	0.50	5.000	0	93.6	90	110			
Sulfate	10	0.50	10.00	0	100	90	110			

Sample ID: **2208359-013CMS** SampType: **ms** TestCode: **EPA Method 300.0: Anions**
Client ID: **MW-62** Batch ID: **R90080** RunNo: **90080**
Prep Date: Analysis Date: **8/5/2022** SeqNo: **3211305** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	18	0.50	5.000	13.31	102	86.3	114			
Nitrogen, Nitrite (As N)	0.94	0.10	1.000	0	93.9	83.4	105			
Bromide	2.5	0.10	2.500	0	100	91.2	106			
Nitrogen, Nitrate (As N)	2.7	0.10	2.500	0.2311	99.8	93.5	110			

Sample ID: **2208359-013CMSD** SampType: **msd** TestCode: **EPA Method 300.0: Anions**
Client ID: **MW-62** Batch ID: **R90080** RunNo: **90080**
Prep Date: Analysis Date: **8/5/2022** SeqNo: **3211306** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	18	0.50	5.000	13.31	101	86.3	114	0.329	20	
Nitrogen, Nitrite (As N)	0.92	0.10	1.000	0	92.1	83.4	105	1.92	20	
Bromide	2.5	0.10	2.500	0	98.8	91.2	106	1.63	20	
Nitrogen, Nitrate (As N)	2.7	0.10	2.500	0.2311	97.8	93.5	110	1.88	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**

09-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R90519**	RunNo: **90519**							
Prep Date:	Analysis Date: **8/23/2022**	SeqNo: **3232499**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R90519**	RunNo: **90519**							
Prep Date:	Analysis Date: **8/23/2022**	SeqNo: **3232502**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	9.6	0.50	10.00	0	95.9	90	110			

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **A90678**	RunNo: **90678**							
Prep Date:	Analysis Date: **8/30/2022**	SeqNo: **3241193**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **A90678**	RunNo: **90678**							
Prep Date:	Analysis Date: **8/30/2022**	SeqNo: **3241194**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.5	0.20	3.500	0	100	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**

09-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-69306** SampType: **MBLK** TestCode: **EPA Method 8015D Mod: Diesel Range**

Client ID: **PBW** Batch ID: **69306** RunNo: **90347**

Prep Date: **8/8/2022** Analysis Date: **8/17/2022** SeqNo: **3226749** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.024	0.064								J
Motor Oil Range Organics (MRO)	ND	0.080								
Surr: DNOP	0.056		0.03750		150	42.2	138			S

Sample ID: **LCS-69306** SampType: **LCS** TestCode: **EPA Method 8015D Mod: Diesel Range**

Client ID: **LCSW** Batch ID: **69306** RunNo: **90347**

Prep Date: **8/8/2022** Analysis Date: **8/17/2022** SeqNo: **3226750** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.19	0.064	0.1875	0	102	31.7	75.4			S
Surr: DNOP	0.032		0.01875		170	42.2	138			S

Sample ID: **LCSD-69306** SampType: **LCSD** TestCode: **EPA Method 8015D Mod: Diesel Range**

Client ID: **LCSS02** Batch ID: **69306** RunNo: **90347**

Prep Date: **8/8/2022** Analysis Date: **8/17/2022** SeqNo: **3226752** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.25	0.064	0.1875	0	133	31.7	75.4	26.0	20	RS
Surr: DNOP	0.029		0.01875		152	42.2	138	0	0	S

Sample ID: **MB-69382** SampType: **MBLK** TestCode: **EPA Method 8015D Mod: Diesel Range**

Client ID: **PBW** Batch ID: **69382** RunNo: **90394**

Prep Date: **8/10/2022** Analysis Date: **8/18/2022** SeqNo: **3228210** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.021	0.064								J
Motor Oil Range Organics (MRO)	ND	0.080								
Surr: DNOP	0.051		0.03750		135	42.2	138			

Sample ID: **LCS-69382** SampType: **LCS** TestCode: **EPA Method 8015D Mod: Diesel Range**

Client ID: **LCSW** Batch ID: **69382** RunNo: **90394**

Prep Date: **8/10/2022** Analysis Date: **8/18/2022** SeqNo: **3228211** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.14	0.064	0.1875	0	72.3	31.7	75.4			
Surr: DNOP	0.021		0.01875		111	42.2	138			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**

09-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **LCSD-69382** SampType: **LCSD** TestCode: **EPA Method 8015D Mod: Diesel Range**

Client ID: **LCSS02** Batch ID: **69382** RunNo: **90394**

Prep Date: **8/10/2022** Analysis Date: **8/18/2022** SeqNo: **3228212** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.13	0.064	0.1875	0	71.9	31.7	75.4	0.563	20	
Surr: DNOP	0.019		0.01875		100	42.2	138	0	0	

Sample ID: **2208359-013BMS** SampType: **MS** TestCode: **EPA Method 8015D Mod: Diesel Range**

Client ID: **MW-62** Batch ID: **69382** RunNo: **90394**

Prep Date: **8/10/2022** Analysis Date: **8/18/2022** SeqNo: **3228217** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.39	0.064	0.1875	0.02021	199	70	130			S
Surr: DNOP	0.010		0.01875		54.7	42.2	138			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**

09-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **2.5ug gro lcs** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSW** Batch ID: **R90135** RunNo: **90135**

Prep Date: Analysis Date: **8/9/2022** SeqNo: **3213366** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.53	0.050	0.5000	0	106	80	120			
Surr: BFB	42		20.00		210	70	130			S

Sample ID: **2208359-013a ms** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **MW-62** Batch ID: **R90135** RunNo: **90135**

Prep Date: Analysis Date: **8/9/2022** SeqNo: **3213382** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.48	0.050	0.5000	0	97.0	70	130			
Surr: BFB	41		20.00		207	70	130			S

Sample ID: **2208359-013a msd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **MW-62** Batch ID: **R90135** RunNo: **90135**

Prep Date: Analysis Date: **8/9/2022** SeqNo: **3213383** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	94.2	70	130	2.85	20	
Surr: BFB	41		20.00		207	70	130	0	0	S

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBW** Batch ID: **R90135** RunNo: **90135**

Prep Date: Analysis Date: **8/9/2022** SeqNo: **3213387** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.011	0.050								J
Surr: BFB	21		20.00		107	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R90134** RunNo: **90134**
Prep Date: Analysis Date: **8/9/2022** SeqNo: **3213321** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	24	1.0	20.00	0	119	70	130			
Toluene	21	1.0	20.00	0	103	70	130			
Chlorobenzene	20	1.0	20.00	0	98.6	70	130			
1,1-Dichloroethene	24	1.0	20.00	0	119	70	130			
Trichloroethene (TCE)	24	1.0	20.00	0	118	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		114	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	12		10.00		115	70	130			
Surr: Toluene-d8	10		10.00		99.5	70	130			

Sample ID: **2208359-013a ms** SampType: **MS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-62** Batch ID: **R90134** RunNo: **90134**
Prep Date: Analysis Date: **8/9/2022** SeqNo: **3213336** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	24	1.0	20.00	0	119	70	130			
Toluene	19	1.0	20.00	0	95.0	70	130			
Chlorobenzene	20	1.0	20.00	0	98.5	70	130			
1,1-Dichloroethene	22	1.0	20.00	0	108	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	106	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		109	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	11		10.00		111	70	130			
Surr: Toluene-d8	9.7		10.00		96.6	70	130			

Sample ID: **2208359-013a msd** SampType: **MSD** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-62** Batch ID: **R90134** RunNo: **90134**
Prep Date: Analysis Date: **8/9/2022** SeqNo: **3213337** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	117	70	130	1.59	20	
Toluene	19	1.0	20.00	0	94.8	70	130	0.160	20	
Chlorobenzene	19	1.0	20.00	0	93.2	70	130	5.55	20	
1,1-Dichloroethene	21	1.0	20.00	0	107	70	130	1.16	20	
Trichloroethene (TCE)	21	1.0	20.00	0	106	70	130	0.494	20	
Surr: 1,2-Dichloroethane-d4	12		10.00		117	70	130	0	0	
Surr: 4-Bromofluorobenzene	11		10.00		109	70	130	0	0	
Surr: Dibromofluoromethane	11		10.00		112	70	130	0	0	
Surr: Toluene-d8	10		10.00		99.8	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R90134**	RunNo: **90134**
Prep Date:	Analysis Date: **8/9/2022**	SeqNo: **3213339** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	0.23	1.0								J
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R90134** RunNo: **90134**
Prep Date: Analysis Date: **8/9/2022** SeqNo: **3213339** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		115	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	12		10.00		117	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **mb-69456** SampType: **MBLK** TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBW** Batch ID: **69456** RunNo: **90411**
Prep Date: **8/12/2022** Analysis Date: **8/18/2022** SeqNo: **3225685** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Azobenzene	ND	10								
Benz(a)anthracene	ND	5.0								
Benzo(a)pyrene	ND	10								
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	5.0								
Benzo(k)fluoranthene	ND	10								
Benzoic acid	ND	20								
Benzyl alcohol	ND	5.0								
Bis(2-chloroethoxy)methane	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ether	ND	5.0								
Bis(2-ethylhexyl)phthalate	ND	10								
4-Bromophenyl phenyl ether	ND	10								
Butyl benzyl phthalate	ND	10								
Carbazole	ND	10								
4-Chloro-3-methylphenol	ND	5.0								
4-Chloroaniline	ND	5.0								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	5.0								
4-Chlorophenyl phenyl ether	ND	10								
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10								
Di-n-octyl phthalate	ND	20								
Dibenz(a,h)anthracene	ND	10								
Dibenzofuran	ND	10								
1,2-Dichlorobenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
3,3´-Dichlorobenzidine	ND	10								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
2,4-Dichlorophenol	ND	5.0								
2,4-Dimethylphenol	ND	10								
4,6-Dinitro-2-methylphenol	ND	10								
2,4-Dinitrophenol	ND	20								

Qualifiers:

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H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **mb-69456** SampType: **MBLK** TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBW** Batch ID: **69456** RunNo: **90411**
Prep Date: **8/12/2022** Analysis Date: **8/18/2022** SeqNo: **3225685** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	ND	5.0								
2,6-Dinitrotoluene	ND	10								
Fluoranthene	ND	10								
Fluorene	ND	10								
Hexachlorobenzene	ND	20								
Hexachlorobutadiene	ND	20								
Hexachlorocyclopentadiene	ND	20								
Hexachloroethane	ND	20								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	5.0								
1-Methylnaphthalene	ND	5.0								
2-Methylnaphthalene	ND	5.0								
2-Methylphenol	ND	10								
3+4-Methylphenol	ND	10								
N-Nitrosodi-n-propylamine	ND	5.0								
N-Nitrosodimethylamine	ND	5.0								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	5.0								
2-Nitroaniline	ND	10								
3-Nitroaniline	ND	10								
4-Nitroaniline	ND	5.0								
Nitrobenzene	ND	5.0								
2-Nitrophenol	ND	10								
4-Nitrophenol	ND	10								
Pentachlorophenol	ND	40								
Phenanthrene	ND	10								
Phenol	ND	20								
Pyrene	ND	10								
Pyridine	ND	40								
1,2,4-Trichlorobenzene	ND	5.0								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
Surr: 2-Fluorophenol	99		200.0		49.4	15	84.5			
Surr: Phenol-d5	76		200.0		37.8	15	67			
Surr: 2,4,6-Tribromophenol	110		200.0		56.1	15	108			
Surr: Nitrobenzene-d5	61		100.0		61.1	16.8	112			
Surr: 2-Fluorobiphenyl	59		100.0		59.3	15	101			
Surr: 4-Terphenyl-d14	76		100.0		76.0	34.4	134			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **lcs-69456** SampType: **LCS** TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSW** Batch ID: **69456** RunNo: **90411**
Prep Date: **8/12/2022** Analysis Date: **8/18/2022** SeqNo: **3225686** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	77	10	100.0	0	76.8	21.3	104			
4-Chloro-3-methylphenol	150	5.0	200.0	0	77.2	31.8	104			
2-Chlorophenol	160	5.0	200.0	0	78.2	26.9	105			
1,4-Dichlorobenzene	68	5.0	100.0	0	68.3	15	89.8			
2,4-Dinitrotoluene	62	5.0	100.0	0	62.2	22.9	92.4			
N-Nitrosodi-n-propylamine	75	5.0	100.0	0	75.1	33.2	98.8			
4-Nitrophenol	88	10	200.0	0	44.1	27.4	64.2			
Pentachlorophenol	110	40	200.0	0	54.8	37.6	93			
Phenol	93	20	200.0	0	46.5	17	61.1			
Pyrene	87	10	100.0	0	87.3	61	123			
1,2,4-Trichlorobenzene	65	5.0	100.0	0	64.8	15	91.7			
Surr: 2-Fluorophenol	110		200.0		53.0	15	84.5			
Surr: Phenol-d5	84		200.0		42.2	15	67			
Surr: 2,4,6-Tribromophenol	130		200.0		67.1	15	108			
Surr: Nitrobenzene-d5	74		100.0		74.3	16.8	112			
Surr: 2-Fluorobiphenyl	74		100.0		73.6	15	101			
Surr: 4-Terphenyl-d14	95		100.0		95.2	34.4	134			

Sample ID: **lcsd-69456** SampType: **LCSD** TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS02** Batch ID: **69456** RunNo: **90411**
Prep Date: **8/12/2022** Analysis Date: **8/18/2022** SeqNo: **3225687** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	75	10	100.0	0	75.0	21.3	104	2.35	45.3	
4-Chloro-3-methylphenol	160	5.0	200.0	0	79.4	31.8	104	2.79	54.5	
2-Chlorophenol	150	5.0	200.0	0	76.1	26.9	105	2.68	44.5	
1,4-Dichlorobenzene	66	5.0	100.0	0	65.6	15	89.8	4.08	39.6	
2,4-Dinitrotoluene	61	5.0	100.0	0	61.4	22.9	92.4	1.27	33.1	
N-Nitrosodi-n-propylamine	74	5.0	100.0	0	74.2	33.2	98.8	1.18	48	
4-Nitrophenol	90	10	200.0	0	45.0	27.4	64.2	1.85	14.7	
Pentachlorophenol	130	40	200.0	0	63.6	37.6	93	14.9	15	
Phenol	87	20	200.0	0	43.4	17	61.1	6.85	42.5	
Pyrene	83	10	100.0	0	83.0	61	123	5.07	11.8	
1,2,4-Trichlorobenzene	64	5.0	100.0	0	64.5	15	91.7	0.536	34.2	
Surr: 2-Fluorophenol	100		200.0		52.1	15	84.5	0	0	
Surr: Phenol-d5	81		200.0		40.3	15	67	0	0	
Surr: 2,4,6-Tribromophenol	140		200.0		69.1	15	108	0	0	
Surr: Nitrobenzene-d5	76		100.0		76.0	16.8	112	0	0	
Surr: 2-Fluorobiphenyl	75		100.0		74.8	15	101	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **lcsd-69456**	SampType: **LCSD**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS02**	Batch ID: **69456**	RunNo: **90411**
Prep Date: **8/12/2022**	Analysis Date: **8/18/2022**	SeqNo: **3225687** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	89		100.0		89.1	34.4	134	0	0	

Qualifiers:

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D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**
09-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **mb-1 alk**	SampType: **mblk**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R90262**	RunNo: **90262**							
Prep Date:	Analysis Date: **8/12/2022**	SeqNo: **3219467**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-1 alk**	SampType: **lcs**	TestCode: **SM2320B: Alkalinity**							
Client ID: **LCSW**	Batch ID: **R90262**	RunNo: **90262**							
Prep Date:	Analysis Date: **8/12/2022**	SeqNo: **3219468**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	78.40	20.00	80.00	0	98.0	90	110			

Sample ID: **mb-2 alk**	SampType: **mblk**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R90262**	RunNo: **90262**							
Prep Date:	Analysis Date: **8/12/2022**	SeqNo: **3219490**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-2 alk**	SampType: **lcs**	TestCode: **SM2320B: Alkalinity**							
Client ID: **LCSW**	Batch ID: **R90262**	RunNo: **90262**							
Prep Date:	Analysis Date: **8/12/2022**	SeqNo: **3219491**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	78.36	20.00	80.00	0	98.0	90	110			

Sample ID: **2208359-010C dup**	SampType: **dup**	TestCode: **SM2320B: Alkalinity**							
Client ID: **MW-37**	Batch ID: **R90262**	RunNo: **90262**							
Prep Date:	Analysis Date: **8/12/2022**	SeqNo: **3219512**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	331.3	20.00						0.0846	20	

Sample ID: **mb-3 alk**	SampType: **mblk**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R90262**	RunNo: **90262**							
Prep Date:	Analysis Date: **8/12/2022**	SeqNo: **3219513**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**

09-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **lcs-3 alk**	SampType: **lcs**	TestCode: **SM2320B: Alkalinity**							
Client ID: **LCSW**	Batch ID: **R90262**	RunNo: **90262**							
Prep Date:	Analysis Date: **8/12/2022**	SeqNo: **3219514**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	77.56	20.00	80.00	0	97.0	90	110			

Sample ID: **mb-1 alk**	SampType: **mblk**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R90368**	RunNo: **90368**							
Prep Date:	Analysis Date: **8/17/2022**	SeqNo: **3223992**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-1 alk**	SampType: **lcs**	TestCode: **SM2320B: Alkalinity**							
Client ID: **LCSW**	Batch ID: **R90368**	RunNo: **90368**							
Prep Date:	Analysis Date: **8/17/2022**	SeqNo: **3223993**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	77.20	20.00	80.00	0	96.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208359**

09-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-69390** SampType: **MBLK** TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW** Batch ID: **69390** RunNo: **90199**
Prep Date: **8/10/2022** Analysis Date: **8/11/2022** SeqNo: **3216390** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: **LCS-69390** SampType: **LCS** TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW** Batch ID: **69390** RunNo: **90199**
Prep Date: **8/10/2022** Analysis Date: **8/11/2022** SeqNo: **3216391** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	993	20.0	1000	0	99.3	80	120			

Sample ID: **MB-69430** SampType: **MBLK** TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW** Batch ID: **69430** RunNo: **90232**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218065** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: **LCS-69430** SampType: **LCS** TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW** Batch ID: **69430** RunNo: **90232**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218066** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	996	20.0	1000	0	99.6	80	120			

Sample ID: **2208359-013CDUP** SampType: **DUP** TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **MW-62** Batch ID: **69430** RunNo: **90232**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218079** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	6040	20.0						0.382	10	*H

Qualifiers:

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S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **AECOM** Work Order Number: **2208359** RcptNo: **1**

Received By: **Juan Rojas** **8/5/2022 6:20:00 AM**

Completed By: **Cheyenne Cason** **8/5/2022 9:06:36 AM**

Reviewed By: 8-5-22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preserved added to bottles?	Yes ☑ 8-5-22	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: 23 (<2 or >12 unless noted)

Adjusted? Yes

Checked by: 8-5-22

Labeled by: JR 8/5/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks: Added 0.4 ml of HNO_3 to sample 001E for ph less than 2. 8-5-22

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good	Yes			
2	2.1	Good	Yes			
3	1.9	Good	Yes			

Released to Imaging: 11/21/2023 10:35:22 AM
Received by OCD: 5/15/2023 3:52:10 PM

Chain-of-Custody Record

Client: AECOM

Mailing Address: 6501 Americas PKwy STE 900
ABQ, NM 87110

Phone #: 505-358-0704

email or Fax#: tanner.grulke@aecom.com

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Bloomfield Terminal

Project #: 142937

Project Manager: Eddie Hubbert

Sampler: T. Grulke

On Ice: ☐ Yes ☐ No

# of Coolers: 0.3-0=0.3

Cooler Temp(including CF): 2.1-0=2.1 (°C) 1.9-0=1.9

HEAL No. 2208359

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	SVOCs	CO_2, Anions, Alk	TDS	Total Metals	Dissolved Metals	
8-4-22	1330	GW	MW-67	10	MISC.	001		X						X				X	X	X	X	
8-4-22	1242	GW	MW-1	10	MISC.	002		X						X				X	X	X	X	
8-4-22	1045	GW	CW 0+60	7 5 VOA 1 Poly 1 Amber	HNO3 MISC.	003		X						X					X			
8-4-22	1242	GW	MW-1-FB	3 VOA	HCl	004								X								
8-4-22	1015	GW	OW 0+60	7 5 VOA 1 Poly 1 Amber	HCl	005		X						X					X			
8-4-22	0905	GW	OW 16+60	7 5 VOA 1 Poly 1 Amber	HCl	006		X						X					X			
8-4-22	1500	GW	MW-66	10	MISC.	007		X						X				X	X	X	X	X
8-3-22	1455	GW	OW 22+00	7	HCl	008		X						X					X			
8-3-22	1530	GW	OW 23+10	6	HCl	009		X						X					X			
8-4-22	1230	GW	MW-37	10	MISC.	010		X						X				X	X	X	X	X
8-4-22	1130	GW	MW-33	9	MISC.	011		X						X				X	X	X	X	X
8-4-22	1110	GW	MW-12	11	MISC.	012		X						X			X	X	X	X	X	X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8-4-22	~~1442~~ 1500					
8/4/22	1826			Courier	8/5/22	6:20

Remarks: MW-33 has no DRO, insufficient water.
OW 23+10 has no TDS, insufficient water. If possible analyze TDS with any remaining DRO water.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 11/21/2023 10:35:22 AM
Received by OCD: 5/15/2023 3:52:10 PM

Chain-of-Custody Record

Client: AECOM

Mailing Address: 6501 Americas PKWY STE 700 ABQ, NM 87110

Phone #: 505-358-0704

email or Fax#: tanner.gmilke@aecom.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Bloomfield Terminal

Project #: 142937

Project Manager: Eddie Hubbert

Sampler: T. Gmilke

On Ice: ☒ Yes ☐ No

# of Coolers: 3

Cooler Temp(including CF): see 1st page (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208359	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	CO_2, Anions, Alk	TDS	Total Metals	Dissolved metals		
8-4-22	0935	GW	MW-6Z	2D	Misc	013		X						X			X	X	X	X		
8-4-22	1400	GW	TRIP BLANK	2-Voa	HCl	014								X								

Remarks: MW-6Z contains additional volume for MS/MSD

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8-4-22	1520					
8/4/22	1820			courier	8/5/22	6:20

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

TABLE 2
Analytical Methods and Target Analytes
Facility-Wide Groundwater Monitoring Plan - June 2018
Western Refining Southwest, Inc. - Bloomfield Refinery

VOCs (EPA Method 8260B) (1)
- Target List
  - *Benzene*
  - *Toluene*
  - *Ethylbenzene*
  - *Xylenes*
  - *Methyl tert butyl ether (MTBE)*

SVOCs - (EPA Method 8270)
- Method List

TPH-GRO (EPA Method 8015B)
- Gasoline Range Organics

TPH-DRO (EPA Method 8015B)
- Diesel Range Organics
- Motor Oil Range Organics

Total Carbon Dioxide (Laboratory Calculated)
- Dissolved CO2

Specific Conductivity (EPA Method 120.1 or field measurement)
- Specific conductance

TDS (EPA Method 160.1 or field measurement)
- Total dissolved solids

General Chemistry - Anions (EPA Method 300.0)
- *Fluoride*
- *Chloride*
- *Bromide*
- *Nitrogen, Nitrite (as N)*
- *Nitrogen, Nitrate (as N)*
- *Phosphorous, Orthophosphate (As P)*
- *Sulfate*

General Chemistry - Alkalinity (EPA Method 310.1)
- *Alkalinity, Total*
- *Carbonate*
- *Bicarbonate*

Total Recoverable Metals (EPA Method 6010B/7470)
- Target List (not applicable to River Terrace Sampling Events)
  - *Arsenic*
  - *Barium*
  - *Cadmium*
  - *Chromium*
  - *Lead*
  - *Mercury*
  - *Selenium*
  - *Silver*
- Target List (for River Terrace Sampling Events Only)
  - *Lead*
  - *Mercury (DW-1 ONLY)*

Dissolved Metals (EPA Method 6010B / 7470)
- Target List (for Refinery Complex, Outfalls, and River)
  - *Arsenic*
  - *Barium*
  - *Cadmium*
  - *Calcium*
  - *Chromium*
  - *Copper*
  - *Iron*
  - *Lead*
  - *Magnesium*
  - *Manganese*
  - *Mercury*
  - *Potassium*
  - *Selenium*
  - *Silver*
  - *Sodium*
  - *Uranium*
  - *Zinc*

TPH = total petroleum hydrocarbons
GRO = gasoline range organics
VOCs = volatile organic compounds
DRO = diesel range organics
TDS = total dissolved solids

NOTES:

(1) VOCs Target List for River Terrace samples are analyzed by EPA Method 8021B per NMED's letter Approval with Direction dated June 16, 2009.

(2) Target List for San Juan River Terrace Monitoring Wells and Piezomenter Wells only, per the River Terrace Bioventing System Monitoring Plan.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 12, 2022

Eddie Hubbert

AECOM
6501 Americas Parkway NE Suite 900
Albuquerque, NM 87110
TEL: (505) 855-7500
FAX (505) 855-7555

RE: Bloomfield Terminal OrderNo.: 2208424

Dear Eddie Hubbert:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/6/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: Downstream
Project: Bloomfield Terminal
Collection Date: 8/4/2022 1:45:00 PM
Lab ID: 2208424-001A
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **JR**	
Benzene	ND	0.23	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Toluene	ND	0.20	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Naphthalene	ND	0.50	2.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Acetone	5.3	2.5	10	J	µg/L	1	8/10/2022 8:36:58 PM	R90169
Bromobenzene	ND	0.28	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Bromoform	ND	0.31	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Bromomethane	ND	0.85	3.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
2-Butanone	ND	2.0	10		µg/L	1	8/10/2022 8:36:58 PM	R90169
Carbon disulfide	ND	0.59	10		µg/L	1	8/10/2022 8:36:58 PM	R90169
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Chloroethane	ND	0.38	2.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Chloroform	ND	0.13	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Chloromethane	0.43	0.41	3.0	J	µg/L	1	8/10/2022 8:36:58 PM	R90169
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Dibromomethane	ND	0.31	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: Downstream
Project: Bloomfield Terminal
Collection Date: 8/4/2022 1:45:00 PM
Lab ID: 2208424-001A
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **JR**	
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
2-Hexanone	ND	1.8	10		µg/L	1	8/10/2022 8:36:58 PM	R90169
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/10/2022 8:36:58 PM	R90169
Methylene Chloride	2.6	0.50	3.0	J	µg/L	1	8/10/2022 8:36:58 PM	R90169
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Styrene	ND	0.14	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/10/2022 8:36:58 PM	R90169
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/10/2022 8:36:58 PM	R90169
Surr: 1,2-Dichloroethane-d4	109	0	70-130		%Rec	1	8/10/2022 8:36:58 PM	R90169
Surr: 4-Bromofluorobenzene	108	0	70-130		%Rec	1	8/10/2022 8:36:58 PM	R90169
Surr: Dibromofluoromethane	118	0	70-130		%Rec	1	8/10/2022 8:36:58 PM	R90169
Surr: Toluene-d8	101	0	70-130		%Rec	1	8/10/2022 8:36:58 PM	R90169

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: Downstream
Project: Bloomfield Terminal
Collection Date: 8/4/2022 1:45:00 PM
Lab ID: 2208424-001B
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/8/2022 7:05:41 PM	A90092
Surr: BFB	103	0	70-130		%Rec	1	8/8/2022 7:05:41 PM	A90092

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: Downstream
Project: Bloomfield Terminal
Collection Date: 8/4/2022 1:45:00 PM
Lab ID: 2208424-001C
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	0.058	0.016	0.064	J	mg/L	1	8/18/2022 7:51:13 PM	69382
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/18/2022 7:51:13 PM	69382
Surr: DNOP	136	0	42.2-138		%Rec	1	8/18/2022 7:51:13 PM	69382

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: Downstream
Project: Bloomfield Terminal
Collection Date: 8/4/2022 1:45:00 PM
Lab ID: 2208424-001D
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **CAS**	
Fluoride	0.33	0.23	0.50	J	mg/L	5	8/16/2022 4:33:48 PM	R90332
Chloride	3.7	1.2	2.5		mg/L	5	8/16/2022 4:33:48 PM	R90332
Bromide	ND	0.25	0.50		mg/L	5	8/16/2022 4:33:48 PM	R90332
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5	H	mg/L	5	8/16/2022 4:33:48 PM	R90332
Sulfate	74	1.2	2.5		mg/L	5	8/16/2022 4:33:48 PM	R90332
Nitrate+Nitrite as N	ND	0.11	1.0		mg/L	5	8/16/2022 9:19:16 PM	R90332
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	95.84	20.00	20.00		mg/L Ca	1	8/11/2022 4:14:28 PM	R90216
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/11/2022 4:14:28 PM	R90216
Total Alkalinity (as CaCO3)	95.84	20.00	20.00		mg/L Ca	1	8/11/2022 4:14:28 PM	R90216
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	240	40.0	40.0	D	mg/L	1	8/12/2022 2:13:00 PM	69430

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: Downstream
Project: Bloomfield Terminal
Collection Date: 8/4/2022 1:45:00 PM
Lab ID: 2208424-001E
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: TOTAL METALS							Analyst: **VP**	
Barium	0.26	0.0016	0.0030		mg/L	1	8/15/2022 12:35:41 PM	69466
Cadmium	ND	0.0018	0.0020		mg/L	1	8/15/2022 12:35:41 PM	69466
Chromium	0.012	0.0019	0.0060		mg/L	1	8/15/2022 12:35:41 PM	69466
Silver	ND	0.0018	0.0050		mg/L	1	8/15/2022 12:35:41 PM	69466
200.8 ICPMS METALS:TOTAL							Analyst: **bcv**	
Arsenic	0.0047	0.00022	0.0010		mg/L	1	8/17/2022 4:46:56 PM	69466
Lead	0.0084	0.00019	0.00050		mg/L	1	8/17/2022 4:46:56 PM	69466
Selenium	0.0016	0.00089	0.0010		mg/L	1	8/19/2022 11:35:22 AM	69466
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	0.000093	0.000091	0.00020	J	mg/L	1	8/12/2022 11:57:58 AM	69445

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: Downstream
Project: Bloomfield Terminal
Collection Date: 8/4/2022 1:45:00 PM
Lab ID: 2208424-001F
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.076	0.0011	0.0020		mg/L	1	8/23/2022 3:52:06 PM	C90525
Cadmium	ND	0.00098	0.0020		mg/L	1	8/23/2022 3:52:06 PM	C90525
Calcium	38	0.11	1.0		mg/L	1	8/23/2022 3:52:06 PM	C90525
Chromium	ND	0.0020	0.0060		mg/L	1	8/23/2022 3:52:06 PM	C90525
Iron	0.22	0.010	0.020		mg/L	1	8/23/2022 3:52:06 PM	C90525
Magnesium	5.4	0.067	1.0		mg/L	1	8/23/2022 3:52:06 PM	C90525
Manganese	0.020	0.00058	0.0020		mg/L	1	8/23/2022 3:52:06 PM	C90525
Potassium	2.2	0.16	1.0		mg/L	1	8/23/2022 3:52:06 PM	C90525
Silver	ND	0.0013	0.0050		mg/L	1	8/23/2022 3:52:06 PM	C90525
Sodium	25	0.33	1.0		mg/L	1	8/23/2022 3:52:06 PM	C90525
Zinc	0.013	0.0032	0.010		mg/L	1	8/23/2022 3:52:06 PM	C90525
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.0012	0.00012	0.0010		mg/L	1	8/9/2022 11:26:46 AM	A90122
Copper	0.0012	0.00037	0.0010		mg/L	1	8/9/2022 11:26:46 AM	A90122
Lead	0.00023	0.000057	0.00050	J	mg/L	1	8/9/2022 11:26:46 AM	A90122
Selenium	0.00046	0.00034	0.0010	J	mg/L	1	8/9/2022 11:26:46 AM	A90122
Uranium	0.00079	0.000065	0.00050		mg/L	1	8/9/2022 11:26:46 AM	A90122
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 12:08:39 PM	69445

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: N of 46
Project: Bloomfield Terminal
Collection Date: 8/4/2022 2:20:00 PM
Lab ID: 2208424-002A
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **JR**	
Benzene	ND	0.23	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Toluene	ND	0.20	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Naphthalene	ND	0.50	2.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Acetone	5.3	2.5	10	J	µg/L	1	8/10/2022 9:05:34 PM	R90169
Bromobenzene	ND	0.28	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Bromoform	ND	0.31	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Bromomethane	ND	0.85	3.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
2-Butanone	ND	2.0	10		µg/L	1	8/10/2022 9:05:34 PM	R90169
Carbon disulfide	ND	0.59	10		µg/L	1	8/10/2022 9:05:34 PM	R90169
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Chloroethane	ND	0.38	2.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Chloroform	ND	0.13	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Chloromethane	ND	0.41	3.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Dibromomethane	ND	0.31	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: N of 46
Project: Bloomfield Terminal
Collection Date: 8/4/2022 2:20:00 PM
Lab ID: 2208424-002A
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **JR**	
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
2-Hexanone	ND	1.8	10		µg/L	1	8/10/2022 9:05:34 PM	R90169
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/10/2022 9:05:34 PM	R90169
Methylene Chloride	0.97	0.50	3.0	J	µg/L	1	8/10/2022 9:05:34 PM	R90169
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Styrene	ND	0.14	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/10/2022 9:05:34 PM	R90169
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/10/2022 9:05:34 PM	R90169
Surr: 1,2-Dichloroethane-d4	111	0	70-130		%Rec	1	8/10/2022 9:05:34 PM	R90169
Surr: 4-Bromofluorobenzene	105	0	70-130		%Rec	1	8/10/2022 9:05:34 PM	R90169
Surr: Dibromofluoromethane	119	0	70-130		%Rec	1	8/10/2022 9:05:34 PM	R90169
Surr: Toluene-d8	102	0	70-130		%Rec	1	8/10/2022 9:05:34 PM	R90169

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: N of 46
Project: Bloomfield Terminal
Collection Date: 8/4/2022 2:20:00 PM
Lab ID: 2208424-002B
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/8/2022 7:29:19 PM	A90092
Surr: BFB	104	0	70-130		%Rec	1	8/8/2022 7:29:19 PM	A90092

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: N of 46
Project: Bloomfield Terminal
Collection Date: 8/4/2022 2:20:00 PM
Lab ID: 2208424-002C
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	0.023	0.016	0.064	J	mg/L	1	8/18/2022 8:15:31 PM	69382
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/18/2022 8:15:31 PM	69382
Surr: DNOP	136	0	42.2-138		%Rec	1	8/18/2022 8:15:31 PM	69382

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: N of 46
Project: Bloomfield Terminal
Collection Date: 8/4/2022 2:20:00 PM
Lab ID: 2208424-002D
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **CAS**	
Fluoride	ND	0.23	0.50	H	mg/L	5	9/2/2022 8:28:39 PM	R90788
Chloride	3.6	1.2	2.5		mg/L	5	8/16/2022 5:23:27 PM	R90332
Bromide	ND	0.25	0.50		mg/L	5	8/16/2022 5:23:27 PM	R90332
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5	H	mg/L	5	9/7/2022 8:01:07 PM	R90855
Sulfate	73	1.2	2.5		mg/L	5	8/16/2022 5:23:27 PM	R90332
Nitrate+Nitrite as N	ND	0.11	1.0		mg/L	5	8/16/2022 9:31:41 PM	R90332
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	95.72	20.00	20.00		mg/L Ca	1	8/11/2022 4:22:52 PM	R90216
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/11/2022 4:22:52 PM	R90216
Total Alkalinity (as CaCO3)	95.72	20.00	20.00		mg/L Ca	1	8/11/2022 4:22:52 PM	R90216
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	242	40.0	40.0	D	mg/L	1	8/12/2022 2:13:00 PM	69430

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: N of 46
Project: Bloomfield Terminal
Collection Date: 8/4/2022 2:20:00 PM
Lab ID: 2208424-002E
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: TOTAL METALS							Analyst: **VP**	
Barium	0.25	0.0016	0.0030		mg/L	1	8/15/2022 12:38:39 PM	69466
Cadmium	ND	0.0018	0.0020		mg/L	1	8/15/2022 12:38:39 PM	69466
Chromium	0.010	0.0019	0.0060		mg/L	1	8/15/2022 12:38:39 PM	69466
Silver	ND	0.0018	0.0050		mg/L	1	8/15/2022 12:38:39 PM	69466
200.8 ICPMS METALS:TOTAL							Analyst: **bcv**	
Arsenic	0.0043	0.00022	0.0010		mg/L	1	8/17/2022 4:54:14 PM	69466
Lead	0.0080	0.00019	0.00050		mg/L	1	8/17/2022 4:54:14 PM	69466
Selenium	0.0021	0.00089	0.0010		mg/L	1	8/19/2022 11:42:42 AM	69466
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	0.000098	0.000091	0.00020	J	mg/L	1	8/12/2022 12:10:49 PM	69445

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: N of 46
Project: Bloomfield Terminal
Collection Date: 8/4/2022 2:20:00 PM
Lab ID: 2208424-002F
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.080	0.0011	0.0020		mg/L	1	8/22/2022 12:11:06 PM	B90470
Cadmium	ND	0.00098	0.0020		mg/L	1	8/22/2022 12:11:06 PM	B90470
Calcium	39	0.11	1.0		mg/L	1	8/22/2022 12:11:06 PM	B90470
Chromium	ND	0.0020	0.0060		mg/L	1	8/22/2022 12:11:06 PM	B90470
Iron	0.25	0.010	0.020		mg/L	1	8/22/2022 12:11:06 PM	B90470
Magnesium	5.8	0.067	1.0		mg/L	1	8/22/2022 12:11:06 PM	B90470
Manganese	0.018	0.00058	0.0020		mg/L	1	8/22/2022 12:11:06 PM	B90470
Potassium	2.4	0.16	1.0		mg/L	1	8/22/2022 12:11:06 PM	B90470
Silver	ND	0.0013	0.0050		mg/L	1	8/22/2022 12:11:06 PM	B90470
Sodium	25	0.33	1.0		mg/L	1	8/22/2022 12:11:06 PM	B90470
Zinc	0.0075	0.0032	0.010	J	mg/L	1	8/22/2022 12:11:06 PM	B90470
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.0013	0.00012	0.0010		mg/L	1	8/9/2022 11:32:09 AM	A90122
Copper	0.0014	0.00037	0.0010		mg/L	1	8/9/2022 11:32:09 AM	A90122
Lead	0.00029	0.000057	0.00050	J	mg/L	1	8/9/2022 11:32:09 AM	A90122
Selenium	0.00049	0.00034	0.0010	J	mg/L	1	8/9/2022 11:32:09 AM	A90122
Uranium	0.00082	0.000065	0.00050		mg/L	1	8/9/2022 11:32:09 AM	A90122
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 12:12:58 PM	69445

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-13
Project: Bloomfield Terminal
Collection Date: 8/5/2022 9:15:00 AM
Lab ID: 2208424-003A
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **JR**	
Benzene	ND	0.23	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Toluene	ND	0.20	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Methyl tert-butyl ether (MTBE)	1.3	0.39	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,2-Dichloroethane (EDC)	0.51	0.25	1.0	J	µg/L	1	8/10/2022 9:34:10 PM	R90169
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Naphthalene	ND	0.50	2.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Acetone	2.8	2.5	10	J	µg/L	1	8/10/2022 9:34:10 PM	R90169
Bromobenzene	ND	0.28	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Bromoform	ND	0.31	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Bromomethane	ND	0.85	3.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
2-Butanone	ND	2.0	10		µg/L	1	8/10/2022 9:34:10 PM	R90169
Carbon disulfide	ND	0.59	10		µg/L	1	8/10/2022 9:34:10 PM	R90169
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Chloroethane	ND	0.38	2.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Chloroform	ND	0.13	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Chloromethane	0.47	0.41	3.0	J	µg/L	1	8/10/2022 9:34:10 PM	R90169
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Dibromomethane	ND	0.31	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-13
Project: Bloomfield Terminal
Collection Date: 8/5/2022 9:15:00 AM
Lab ID: 2208424-003A
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **JR**	
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
2-Hexanone	ND	1.8	10		µg/L	1	8/10/2022 9:34:10 PM	R90169
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/10/2022 9:34:10 PM	R90169
Methylene Chloride	0.89	0.50	3.0	J	µg/L	1	8/10/2022 9:34:10 PM	R90169
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Styrene	ND	0.14	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/10/2022 9:34:10 PM	R90169
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/10/2022 9:34:10 PM	R90169
Surr: 1,2-Dichloroethane-d4	108	0	70-130		%Rec	1	8/10/2022 9:34:10 PM	R90169
Surr: 4-Bromofluorobenzene	108	0	70-130		%Rec	1	8/10/2022 9:34:10 PM	R90169
Surr: Dibromofluoromethane	119	0	70-130		%Rec	1	8/10/2022 9:34:10 PM	R90169
Surr: Toluene-d8	99.8	0	70-130		%Rec	1	8/10/2022 9:34:10 PM	R90169

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-13
Project: Bloomfield Terminal
Collection Date: 8/5/2022 9:15:00 AM
Lab ID: 2208424-003B
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/8/2022 7:52:58 PM	A90092
Surr: BFB	99.4	0	70-130		%Rec	1	8/8/2022 7:52:58 PM	A90092

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-13
Project: Bloomfield Terminal
Collection Date: 8/5/2022 9:15:00 AM
Lab ID: 2208424-003C
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	0.21	0.016	0.064		mg/L	1	8/18/2022 8:39:47 PM	69382
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/18/2022 8:39:47 PM	69382
Surr: DNOP	127	0	42.2-138		%Rec	1	8/18/2022 8:39:47 PM	69382

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-13
Project: Bloomfield Terminal
Collection Date: 8/5/2022 9:15:00 AM
Lab ID: 2208424-003D
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **CAS**	
Fluoride	ND	0.23	0.50	H	mg/L	5	9/2/2022 8:41:31 PM	R90788
Chloride	160	5.0	10		mg/L	20	8/16/2022 6:00:41 PM	R90332
Bromide	2.1	0.25	0.50		mg/L	5	8/16/2022 5:48:16 PM	R90332
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5	H	mg/L	5	9/7/2022 8:13:32 PM	R90855
Sulfate	990	12	25	*	mg/L	50	8/30/2022 1:54:26 PM	R90678
Nitrate+Nitrite as N	0.55	0.11	1.0	J	mg/L	5	8/16/2022 9:44:06 PM	R90332
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	720	0	1.0	H	mg CO2/	1	8/10/2022 10:16:03 PM	R90176
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	757.9	20.00	20.00		mg/L Ca	1	8/11/2022 4:31:15 PM	R90216
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/11/2022 4:31:15 PM	R90216
Total Alkalinity (as CaCO3)	757.9	20.00	20.00		mg/L Ca	1	8/11/2022 4:31:15 PM	R90216
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **SNS**	
Total Dissolved Solids	2470	40.0	40.0	*D	mg/L	1	8/12/2022 2:13:00 PM	69430

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-13
Project: Bloomfield Terminal
Collection Date: 8/5/2022 9:15:00 AM
Lab ID: 2208424-003E
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: TOTAL METALS							Analyst: **VP**	
Barium	0.026	0.0016	0.0030		mg/L	1	8/15/2022 12:41:26 PM	69466
Cadmium	ND	0.0018	0.0020		mg/L	1	8/15/2022 12:41:26 PM	69466
Chromium	0.076	0.0019	0.0060		mg/L	1	8/15/2022 12:41:26 PM	69466
Silver	ND	0.0018	0.0050		mg/L	1	8/15/2022 12:41:26 PM	69466
200.8 ICPMS METALS:TOTAL							Analyst: **bcv**	
Arsenic	0.00062	0.00022	0.0010	J	mg/L	1	8/17/2022 4:59:05 PM	69466
Lead	ND	0.00019	0.00050		mg/L	1	8/17/2022 4:59:05 PM	69466
Selenium	0.0017	0.00089	0.0010		mg/L	1	8/19/2022 11:47:34 AM	69466
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 12:15:08 PM	69445

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-13
Project: Bloomfield Terminal
Collection Date: 8/5/2022 9:15:00 AM
Lab ID: 2208424-003F
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.022	0.0011	0.0020		mg/L	1	8/22/2022 12:13:27 PM	B90470
Cadmium	ND	0.00098	0.0020		mg/L	1	8/22/2022 12:13:27 PM	B90470
Calcium	230	0.57	5.0		mg/L	5	8/22/2022 12:15:40 PM	B90470
Chromium	ND	0.0020	0.0060		mg/L	1	8/22/2022 12:13:27 PM	B90470
Iron	0.40	0.010	0.020	*	mg/L	1	8/22/2022 12:13:27 PM	B90470
Magnesium	54	0.067	1.0		mg/L	1	8/22/2022 12:13:27 PM	B90470
Manganese	0.75	0.00058	0.0020	*	mg/L	1	8/22/2022 12:13:27 PM	B90470
Potassium	3.9	0.16	1.0		mg/L	1	8/22/2022 12:13:27 PM	B90470
Silver	0.0044	0.0013	0.0050	J	mg/L	1	8/22/2022 12:13:27 PM	B90470
Sodium	590	3.3	10		mg/L	10	8/22/2022 12:17:47 PM	B90470
Zinc	0.0060	0.0032	0.010	J	mg/L	1	8/22/2022 12:13:27 PM	B90470
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	ND	0.00061	0.0050		mg/L	5	8/9/2022 5:25:53 PM	D90122
Copper	ND	0.0018	0.0050		mg/L	5	8/10/2022 4:20:52 PM	A90171
Lead	ND	0.00028	0.0025		mg/L	5	8/9/2022 5:25:53 PM	D90122
Selenium	0.0020	0.0017	0.0050	J	mg/L	5	8/9/2022 5:25:53 PM	D90122
Uranium	0.0065	0.00033	0.0025		mg/L	5	8/9/2022 5:25:53 PM	D90122
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/12/2022 12:17:17 PM	69445

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: Trip Blank
Project: Bloomfield Terminal
Collection Date:
Lab ID: 2208424-004A
Matrix: Trip Blank

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **JR**	
Benzene	ND	0.23	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Toluene	ND	0.20	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Naphthalene	ND	0.50	2.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Acetone	4.9	2.5	10	J	µg/L	1	8/10/2022 11:57:19 PM	R90169
Bromobenzene	ND	0.28	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Bromoform	ND	0.31	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Bromomethane	ND	0.85	3.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
2-Butanone	ND	2.0	10		µg/L	1	8/10/2022 11:57:19 PM	R90169
Carbon disulfide	ND	0.59	10		µg/L	1	8/10/2022 11:57:19 PM	R90169
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Chloroethane	ND	0.38	2.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Chloroform	ND	0.13	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Chloromethane	ND	0.41	3.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Dibromomethane	ND	0.31	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208424**
Date Reported: **9/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: Trip Blank
Project: Bloomfield Terminal
Collection Date:
Lab ID: 2208424-004A
Matrix: Trip Blank

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **JR**	
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
2-Hexanone	ND	1.8	10		µg/L	1	8/10/2022 11:57:19 PM	R90169
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/10/2022 11:57:19 PM	R90169
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Styrene	ND	0.14	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/10/2022 11:57:19 PM	R90169
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/10/2022 11:57:19 PM	R90169
Surr: 1,2-Dichloroethane-d4	105	0	70-130		%Rec	1	8/10/2022 11:57:19 PM	R90169
Surr: 4-Bromofluorobenzene	110	0	70-130		%Rec	1	8/10/2022 11:57:19 PM	R90169
Surr: Dibromofluoromethane	118	0	70-130		%Rec	1	8/10/2022 11:57:19 PM	R90169
Surr: Toluene-d8	101	0	70-130		%Rec	1	8/10/2022 11:57:19 PM	R90169

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**
12-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **MB-B** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW** Batch ID: **B90470** RunNo: **90470**
Prep Date: Analysis Date: **8/22/2022** SeqNo: **3229006** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								
Zinc	ND	0.010								

Sample ID: **LCSLL-B** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **B90470** RunNo: **90470**
Prep Date: Analysis Date: **8/22/2022** SeqNo: **3229007** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0020	0.0020	0.002000	0	100	50	150			
Cadmium	0.0023	0.0020	0.002000	0	116	50	150			
Calcium	0.51	1.0	0.5000	0	103	50	150			J
Chromium	0.0059	0.0060	0.006000	0	98.6	50	150			J
Iron	0.025	0.020	0.02000	0	123	50	150			
Magnesium	0.52	1.0	0.5000	0	103	50	150			J
Manganese	0.0020	0.0020	0.002000	0	99.7	50	150			J
Potassium	0.48	1.0	0.5000	0	95.5	50	150			J
Silver	0.0049	0.0050	0.005000	0	97.0	50	150			J
Sodium	0.30	1.0	0.5000	0	60.3	50	150			J
Zinc	0.010	0.010	0.01000	0	100	50	150			J

Sample ID: **LCS-B** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **B90470** RunNo: **90470**
Prep Date: Analysis Date: **8/22/2022** SeqNo: **3229008** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0020	0.5000	0	100	85	115			
Cadmium	0.50	0.0020	0.5000	0	99.5	85	115			
Calcium	52	1.0	50.00	0	105	85	115			
Chromium	0.50	0.0060	0.5000	0	100	85	115			
Iron	0.50	0.020	0.5000	0	99.8	85	115			
Magnesium	52	1.0	50.00	0	104	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**
12-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **LCS-B** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **B90470** RunNo: **90470**
Prep Date: Analysis Date: **8/22/2022** SeqNo: **3229008** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	0.49	0.0020	0.5000	0	98.6	85	115			
Potassium	51	1.0	50.00	0	103	85	115			
Silver	0.11	0.0050	0.1000	0	106	85	115			
Sodium	52	1.0	50.00	0	103	85	115			
Zinc	0.49	0.010	0.5000	0	98.0	85	115			

Sample ID: **MB-C** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW** Batch ID: **C90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3234015** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								
Zinc	ND	0.010								

Sample ID: **LCSLL-C** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **C90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3234016** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0017	0.0020	0.002000	0	87.4	50	150			J
Cadmium	0.0024	0.0020	0.002000	0	119	50	150			
Calcium	0.51	1.0	0.5000	0	103	50	150			J
Chromium	0.0066	0.0060	0.006000	0	110	50	150			
Iron	0.025	0.020	0.02000	0	124	50	150			
Magnesium	0.51	1.0	0.5000	0	102	50	150			J
Manganese	0.0020	0.0020	0.002000	0	101	50	150			
Potassium	0.48	1.0	0.5000	0	95.8	50	150			J
Silver	0.0051	0.0050	0.005000	0	103	50	150			
Sodium	0.58	1.0	0.5000	0	116	50	150			J
Zinc	0.0099	0.010	0.01000	0	99.0	50	150			J

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**
12-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **LCS-C** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **C90525** RunNo: **90525**
Prep Date: Analysis Date: **8/23/2022** SeqNo: **3234017** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0020	0.5000	0	100	85	115			
Cadmium	0.52	0.0020	0.5000	0	103	85	115			
Calcium	50	1.0	50.00	0	101	85	115			
Chromium	0.51	0.0060	0.5000	0	102	85	115			
Iron	0.50	0.020	0.5000	0	101	85	115			
Magnesium	50	1.0	50.00	0	100	85	115			
Manganese	0.50	0.0020	0.5000	0	99.7	85	115			
Potassium	50	1.0	50.00	0	99.6	85	115			
Silver	0.11	0.0050	0.1000	0	107	85	115			
Sodium	50	1.0	50.00	0	99.9	85	115			
Zinc	0.50	0.010	0.5000	0	101	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**
12-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **MB-69466** SampType: **MBLK** TestCode: **EPA Method 200.7: Total Metals**
Client ID: **PBW** Batch ID: **69466** RunNo: **90323**
Prep Date: **8/12/2022** Analysis Date: **8/15/2022** SeqNo: **3222011** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0030								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Silver	ND	0.0050								

Sample ID: **LCS-69466** SampType: **LCS** TestCode: **EPA Method 200.7: Total Metals**
Client ID: **LCSW** Batch ID: **69466** RunNo: **90323**
Prep Date: **8/12/2022** Analysis Date: **8/15/2022** SeqNo: **3222013** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.52	0.0030	0.5000	0	104	85	115			
Cadmium	0.50	0.0020	0.5000	0	99.6	85	115			
Chromium	0.50	0.0060	0.5000	0	101	85	115			
Silver	0.10	0.0050	0.1000	0	101	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**
12-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **PBW** Batch ID: **A90122** RunNo: **90122**
Prep Date: Analysis Date: **8/9/2022** SeqNo: **3212951** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Copper	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Uranium	ND	0.00050								

Sample ID: **LCSLL** SampType: **LCSLL** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **A90122** RunNo: **90122**
Prep Date: Analysis Date: **8/9/2022** SeqNo: **3212952** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0010	0.0010	0.001000	0	101	50	150			
Copper	0.00090	0.0010	0.001000	0	90.0	50	150			J
Lead	0.00049	0.00050	0.0005000	0	98.6	50	150			J
Selenium	0.0011	0.0010	0.001000	0	110	50	150			
Uranium	0.00049	0.00050	0.0005000	0	97.7	50	150			J

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **LCSW** Batch ID: **A90122** RunNo: **90122**
Prep Date: Analysis Date: **8/9/2022** SeqNo: **3212953** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.024	0.0010	0.02500	0	94.7	85	115			
Copper	0.023	0.0010	0.02500	0	93.0	85	115			
Lead	0.012	0.00050	0.01250	0	97.1	85	115			
Selenium	0.022	0.0010	0.02500	0	88.6	85	115			
Uranium	0.012	0.00050	0.01250	0	95.9	85	115			

Sample ID: **2208424-001FMSLL** SampType: **MS** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **Downstream** Batch ID: **A90122** RunNo: **90122**
Prep Date: Analysis Date: **8/9/2022** SeqNo: **3212974** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.027	0.0010	0.02500	0.001193	102	70	130			
Copper	0.026	0.0010	0.02500	0.001240	97.1	70	130			
Lead	0.012	0.00050	0.01250	0.0002318	94.1	70	130			
Selenium	0.026	0.0010	0.02500	0.0004598	104	70	130			
Uranium	0.013	0.00050	0.01250	0.0007936	98.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**
12-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **PBW** Batch ID: **D90122** RunNo: **90122**
Prep Date: Analysis Date: **8/9/2022** SeqNo: **3213434** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Uranium	ND	0.00050								

Sample ID: **LCSLL** SampType: **LCSLL** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **D90122** RunNo: **90122**
Prep Date: Analysis Date: **8/9/2022** SeqNo: **3213435** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00099	0.0010	0.001000	0	99.5	50	150			J
Lead	0.00050	0.00050	0.0005000	0	100	50	150			
Selenium	0.0013	0.0010	0.001000	0	132	50	150			
Uranium	0.00048	0.00050	0.0005000	0	95.3	50	150			J

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **LCSW** Batch ID: **D90122** RunNo: **90122**
Prep Date: Analysis Date: **8/9/2022** SeqNo: **3213436** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.024	0.0010	0.02500	0	94.3	85	115			
Lead	0.012	0.00050	0.01250	0	94.3	85	115			
Selenium	0.025	0.0010	0.02500	0	99.1	85	115			
Uranium	0.011	0.00050	0.01250	0	91.7	85	115			

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **PBW** Batch ID: **A90171** RunNo: **90171**
Prep Date: Analysis Date: **8/10/2022** SeqNo: **3215045** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	ND	0.0010								

Sample ID: **LCSLL** SampType: **LCSLL** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **A90171** RunNo: **90171**
Prep Date: Analysis Date: **8/10/2022** SeqNo: **3215046** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	0.0010	0.0010	0.001000	0	104	50	150			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**

12-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA 200.8: Dissolved Metals**

Client ID: **LCSW** Batch ID: **A90171** RunNo: **90171**

Prep Date: Analysis Date: **8/10/2022** SeqNo: **3215047** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	0.025	0.0010	0.02500	0	98.6	85	115			

Sample ID: **2208424-003FMSLL** SampType: **MS** TestCode: **EPA 200.8: Dissolved Metals**

Client ID: **MW-13** Batch ID: **A90171** RunNo: **90171**

Prep Date: Analysis Date: **8/10/2022** SeqNo: **3215073** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	0.12	0.0050	0.1250	0	94.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**
12-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **MB-69466** SampType: **MBLK** TestCode: **200.8 ICPMS Metals:Total**
Client ID: **PBW** Batch ID: **69466** RunNo: **90361**
Prep Date: **8/12/2022** Analysis Date: **8/16/2022** SeqNo: **3223781** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								

Sample ID: **MSLLLCS-69466** SampType: **LCSLL** TestCode: **200.8 ICPMS Metals:Total**
Client ID: **BatchQC** Batch ID: **69466** RunNo: **90361**
Prep Date: **8/12/2022** Analysis Date: **8/16/2022** SeqNo: **3223782** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0010	0.0010	0.001000	0	103	50	150			
Lead	0.00052	0.00050	0.0005000	0	103	50	150			
Selenium	0.0010	0.0010	0.001000	0	102	50	150			

Sample ID: **MSLCS-69466** SampType: **LCS** TestCode: **200.8 ICPMS Metals:Total**
Client ID: **LCSW** Batch ID: **69466** RunNo: **90361**
Prep Date: **8/12/2022** Analysis Date: **8/16/2022** SeqNo: **3223783** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.027	0.0010	0.02500	0	109	85	115			
Lead	0.013	0.00050	0.01250	0	107	85	115			
Selenium	0.025	0.0010	0.02500	0	102	85	115			

Sample ID: **2208424-001EMSLL** SampType: **MSLL** TestCode: **200.8 ICPMS Metals:Total**
Client ID: **Downstream** Batch ID: **69466** RunNo: **90371**
Prep Date: **8/12/2022** Analysis Date: **8/17/2022** SeqNo: **3224627** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.032	0.0010	0.02500	0.004685	110	70	130			
Lead	0.022	0.00050	0.01250	0.008410	107	70	130			

Sample ID: **2208424-001EMSDL** SampType: **MSDLL** TestCode: **200.8 ICPMS Metals:Total**
Client ID: **Downstream** Batch ID: **69466** RunNo: **90371**
Prep Date: **8/12/2022** Analysis Date: **8/17/2022** SeqNo: **3224628** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.033	0.0010	0.02500	0.004685	114	70	130	2.87	20	
Lead	0.022	0.00050	0.01250	0.008410	111	70	130	2.56	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**

12-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **2208424-002EMSLL** SampType: **MSLL** TestCode: **200.8 ICPMS Metals:Total**

Client ID: **N of 46** Batch ID: **69466** RunNo: **90371**

Prep Date: **8/12/2022** Analysis Date: **8/17/2022** SeqNo: **3224630** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.032	0.0010	0.02500	0.004259	112	70	130			
Lead	0.022	0.00050	0.01250	0.008009	110	70	130			

Sample ID: **2208424-001EMSLL** SampType: **MSLL** TestCode: **200.8 ICPMS Metals:Total**

Client ID: **Downstream** Batch ID: **69466** RunNo: **90458**

Prep Date: **8/12/2022** Analysis Date: **8/19/2022** SeqNo: **3227977** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.027	0.0010	0.02500	0.001559	101	70	130			

Sample ID: **2208424-001EMSDL** SampType: **MSDLL** TestCode: **200.8 ICPMS Metals:Total**

Client ID: **Downstream** Batch ID: **69466** RunNo: **90458**

Prep Date: **8/12/2022** Analysis Date: **8/19/2022** SeqNo: **3227978** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.030	0.0010	0.02500	0.001559	114	70	130	10.9	20	

Sample ID: **2208424-002EMSLL** SampType: **MSLL** TestCode: **200.8 ICPMS Metals:Total**

Client ID: **N of 46** Batch ID: **69466** RunNo: **90458**

Prep Date: **8/12/2022** Analysis Date: **8/19/2022** SeqNo: **3227980** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.030	0.0010	0.02500	0.002095	112	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**

12-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-69445** SampType: **MBLK** TestCode: **EPA Method 245.1: Mercury**
Client ID: **PBW** Batch ID: **69445** RunNo: **90238**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218247** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID: **LCS-69445** SampType: **LCS** TestCode: **EPA Method 245.1: Mercury**
Client ID: **LCSW** Batch ID: **69445** RunNo: **90238**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218249** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	98.9	85	115			

Sample ID: **LCSLL-69445** SampType: **LCSLL** TestCode: **EPA Method 245.1: Mercury**
Client ID: **BatchQC** Batch ID: **69445** RunNo: **90238**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218253** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00023	0.00020	0.0001500	0	152	50	150			S

Sample ID: **2208424-001EMS** SampType: **MS** TestCode: **EPA Method 245.1: Mercury**
Client ID: **Downstream** Batch ID: **69445** RunNo: **90238**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218290** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0047	0.00020	0.005000	.00009255	91.7	75	125			

Sample ID: **2208424-001EMSD** SampType: **MSD** TestCode: **EPA Method 245.1: Mercury**
Client ID: **Downstream** Batch ID: **69445** RunNo: **90238**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218291** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0046	0.00020	0.005000	.00009255	90.2	75	125	1.61	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**
12-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **MB** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R90332** RunNo: **90332**
Prep Date: Analysis Date: **8/16/2022** SeqNo: **3222566** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: **LCS** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R90332** RunNo: **90332**
Prep Date: Analysis Date: **8/16/2022** SeqNo: **3222567** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	101	90	110			
Chloride	4.5	0.50	5.000	0	90.9	90	110			
Bromide	2.4	0.10	2.500	0	94.5	90	110			
Phosphorus, Orthophosphate (As P	4.6	0.50	5.000	0	91.3	90	110			
Sulfate	9.8	0.50	10.00	0	98.1	90	110			
Nitrate+Nitrite as N	3.5	0.20	3.500	0	98.8	90	110			

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R90678** RunNo: **90678**
Prep Date: Analysis Date: **8/30/2022** SeqNo: **3241143** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R90678** RunNo: **90678**
Prep Date: Analysis Date: **8/30/2022** SeqNo: **3241144** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	9.7	0.50	10.00	0	96.9	90	110			

Sample ID: **MB** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R90788** RunNo: **90788**
Prep Date: Analysis Date: **9/2/2022** SeqNo: **3245162** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**

12-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R90788**	RunNo: **90788**
Prep Date:	Analysis Date: **9/2/2022**	SeqNo: **3245163** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.48	0.10	0.5000	0	97.0	90	110			

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R90855**	RunNo: **90855**
Prep Date:	Analysis Date: **9/7/2022**	SeqNo: **3249098** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus, Orthophosphate (As P	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R90855**	RunNo: **90855**
Prep Date:	Analysis Date: **9/7/2022**	SeqNo: **3249099** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus, Orthophosphate (As P	4.6	0.50	5.000	0	91.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**

12-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-69382** SampType: **MBLK** TestCode: **EPA Method 8015D Mod: Diesel Range**

Client ID: **PBW** Batch ID: **69382** RunNo: **90394**

Prep Date: **8/10/2022** Analysis Date: **8/18/2022** SeqNo: **3228210** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.021	0.064								J
Motor Oil Range Organics (MRO)	ND	0.080								
Surr: DNOP	0.051		0.03750		135	42.2	138			

Sample ID: **LCS-69382** SampType: **LCS** TestCode: **EPA Method 8015D Mod: Diesel Range**

Client ID: **LCSW** Batch ID: **69382** RunNo: **90394**

Prep Date: **8/10/2022** Analysis Date: **8/18/2022** SeqNo: **3228211** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.14	0.064	0.1875	0	72.3	31.7	75.4			
Surr: DNOP	0.021		0.01875		111	42.2	138			

Sample ID: **LCSD-69382** SampType: **LCSD** TestCode: **EPA Method 8015D Mod: Diesel Range**

Client ID: **LCSS02** Batch ID: **69382** RunNo: **90394**

Prep Date: **8/10/2022** Analysis Date: **8/18/2022** SeqNo: **3228212** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.13	0.064	0.1875	0	71.9	31.7	75.4	0.563	20	
Surr: DNOP	0.019		0.01875		100	42.2	138	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**
12-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **2.5ug gro lcs** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW** Batch ID: **A90092** RunNo: **90092**
Prep Date: Analysis Date: **8/8/2022** SeqNo: **3211834** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.54	0.050	0.5000	0	108	80	120			
Surr: BFB	42		20.00		212	70	130			S

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW** Batch ID: **A90092** RunNo: **90092**
Prep Date: Analysis Date: **8/8/2022** SeqNo: **3211856** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	22		20.00		109	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**
12-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R90169** RunNo: **90169**
Prep Date: Analysis Date: **8/10/2022** SeqNo: **3214999** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.4	70	130			
Toluene	18	1.0	20.00	0	91.6	70	130			
Chlorobenzene	19	1.0	20.00	0	94.2	70	130			
1,1-Dichloroethene	16	1.0	20.00	0	82.1	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	86.0	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	11		10.00		114	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R90169** RunNo: **90169**
Prep Date: Analysis Date: **8/10/2022** SeqNo: **3215025** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**
12-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R90169** RunNo: **90169**
Prep Date: Analysis Date: **8/10/2022** SeqNo: **3215025** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**
12-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R90169** RunNo: **90169**
Prep Date: Analysis Date: **8/10/2022** SeqNo: **3215025** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		112	70	130			
Surr: Dibromofluoromethane	12		10.00		119	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**

12-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **mb-1 alk**	SampType: **mblk**	TestCode: **SM2320B: Alkalinity**
Client ID: **PBW**	Batch ID: **R90216**	RunNo: **90216**
Prep Date:	Analysis Date: **8/11/2022**	SeqNo: **3217413** Units: **mg/L CaCO3**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-1 alk**	SampType: **lcs**	TestCode: **SM2320B: Alkalinity**
Client ID: **LCSW**	Batch ID: **R90216**	RunNo: **90216**
Prep Date:	Analysis Date: **8/11/2022**	SeqNo: **3217414** Units: **mg/L CaCO3**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	86.52	20.00	80.00	0	108	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208424**
12-Sep-22

Client: AECOM
Project: Bloomfield Terminal

Sample ID: **MB-69430** SampType: **MBLK** TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW** Batch ID: **69430** RunNo: **90232**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218065** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: **LCS-69430** SampType: **LCS** TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW** Batch ID: **69430** RunNo: **90232**
Prep Date: **8/11/2022** Analysis Date: **8/12/2022** SeqNo: **3218066** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	996	20.0	1000	0	99.6	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: AECOM Work Order Number: 2208424 RcptNo: 1

Received By: **Tracy Casarrubias** 8/6/2022 10:30:00 AM

Completed By: **Tracy Casarrubias** 8/6/2022 2:12:54 PM

Reviewed By: JN 8/8/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: 9 6 (<2 or >12 unless noted)

Adjusted? NO

Checked by: KPU 8.08.22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good	Yes			
2	2.7	Good	Yes			

Released to Imaging: 11/21/2023 10:35:22 AM

Received by OCD: 5/15/2023 3:52:10 PM

Chain-of-Custody Record

Client: AECOM

Mailing Address: 6501 Americas Pkwy NE #900
Albuquerque, NM 87110

Phone #: 505-358-0704

email or Fax#: tanner.grulke@aecom.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Bloomfield Terminal

Project #: 142937

Project Manager: Eddie Hubbert

Sampler: Katie Humphrey

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp (including CF): 5.3 +0.2 = 5.5 (°C)

2.5 +0.2 = 2.7 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	CO_2, Anions, Alkalinity, TDS	Anions, Alkalinity, TDS	Total Metals	Dissolved Metals		
8-4-22	1345	GW	Downstream	10	Misc.	2208424 001		X						X				X	X	X		
~~8-4-22~~ 8-5-22	1420	GW	N of 46	10	Misc.	002		X						X				X	X	X		
8-5-22	0915	GW	MW-13	10	Misc.	003		X						X			X		X	X		
			Trip Blank			004																

Date	Time	Relinquished by	Received by	Via	Date	Time
8-5-22	1142	Katie Humphrey	Christa Waeles		8/5/22	1142
8/5/22	1747	Christa Waeles		courier	8/6/22	10:30

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

TABLE 2
Analytical Methods and Target Analytes
Facility-Wide Groundwater Monitoring Plan - June 2018
Western Refining Southwest, Inc. - Bloomfield Refinery

VOCs (EPA Method 8260B) (1)
- Target List
  - *Benzene*
  - *Toluene*
  - *Ethylbenzene*
  - *Xylenes*
  - *Methyl tert butyl ether (MTBE)*

SVOCs - (EPA Method 8270)
- Method List

TPH-GRO (EPA Method 8015B)
- Gasoline Range Organics

TPH-DRO (EPA Method 8015B)
- Diesel Range Organics
- Motor Oil Range Organics

Total Carbon Dioxide (Laboratory Calculated)
- Dissolved CO2

Specific Conductivity (EPA Method 120.1 or field measurement)
- Specific conductance

TDS (EPA Method 160.1 or field measurement)
- Total dissolved solids

General Chemistry - Anions (EPA Method 300.0)
- *Fluoride*
- *Chloride*
- *Bromide*
- *Nitrogen, Nitrite (as N)*
- *Nitrogen, Nitrate (as N)*
- *Phosphorous, Orthophosphate (As P)*
- *Sulfate*

General Chemistry - Alkalinity (EPA Method 310.1)
- *Alkalinity, Total*
- *Carbonate*
- *Bicarbonate*

Total Recoverable Metals (EPA Method 6010B/7470)
- Target List (not applicable to River Terrace Sampling Events)
  - *Arsenic*
  - *Barium*
  - *Cadmium*
  - *Chromium*
  - *Lead*
  - *Mercury*
  - *Selenium*
  - *Silver*
- Target List (for River Terrace Sampling Events Only)
  - *Lead*
  - *Mercury (DW-1 ONLY)*

Dissolved Metals (EPA Method 6010B / 7470)
- Target List (for Refinery Complex, Outfalls, and River)
  - *Arsenic*
  - *Barium*
  - *Cadmium*
  - *Calcium*
  - *Chromium*
  - *Copper*
  - *Iron*
  - *Lead*
  - *Magnesium*
  - *Manganese*
  - *Mercury*
  - *Potassium*
  - *Selenium*
  - *Silver*
  - *Sodium*
  - *Uranium*
  - *Zinc*

TPH = total petroleum hydrocarbons
GRO = gasoline range organics
VOCs = volatile organic compounds
DRO = diesel range organics
TDS = total dissolved solids

NOTES:

(1) VOCs Target List for River Terrace samples are analyzed by EPA Method 8021B per NMED's letter Approval with Direction dated June 16, 2009.

(2) Target List for San Juan River Terrace Monitoring Wells and Piezomenter Wells only, per the River Terrace Bioventing System Monitoring Plan.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
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Website: www.hallenvironmental.com

September 22, 2022

Eddie Hubbert

AECOM
6501 Americas Parkway NE Suite 900
Albuquerque, NM 87110
TEL: (505) 855-7500
FAX: (505) 855-7555

RE: Bloomfield Terminal OrderNo.: 2208581

Dear Eddie Hubbert:

Hall Environmental Analysis Laboratory received 11 sample(s) on 8/10/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-35
Project: Bloomfield Terminal
Collection Date: 8/9/2022 8:50:00 AM
Lab ID: 2208581-001A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	0.20	0.0090	0.050		mg/L	1	8/17/2022 10:05:33 PM	G90345
Surr: BFB	108	0	70-130		%Rec	1	8/17/2022 10:05:33 PM	G90345
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Toluene	ND	0.20	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Naphthalene	ND	0.50	2.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Acetone	11	2.5	10		µg/L	1	8/12/2022 1:27:00 PM	R90225
Bromobenzene	ND	0.28	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Bromoform	ND	0.31	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Bromomethane	ND	0.85	3.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
2-Butanone	ND	2.0	10		µg/L	1	8/12/2022 1:27:00 PM	R90225
Carbon disulfide	ND	0.59	10		µg/L	1	8/12/2022 1:27:00 PM	R90225
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Chloroethane	ND	0.38	2.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Chloroform	ND	0.13	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Chloromethane	ND	0.41	3.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Dibromomethane	ND	0.31	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Estimated value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-35
Project: Bloomfield Terminal
Collection Date: 8/9/2022 8:50:00 AM
Lab ID: 2208581-001A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
2-Hexanone	ND	1.8	10		µg/L	1	8/12/2022 1:27:00 PM	R90225
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/12/2022 1:27:00 PM	R90225
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Styrene	ND	0.14	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
tert-Butylbenzene	0.73	0.24	1.0	J	µg/L	1	8/12/2022 1:27:00 PM	R90225
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/12/2022 1:27:00 PM	R90225
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/12/2022 1:27:00 PM	R90225
Surr: 1,2-Dichloroethane-d4	113	0	70-130		%Rec	1	8/12/2022 1:27:00 PM	R90225
Surr: 4-Bromofluorobenzene	96.5	0	70-130		%Rec	1	8/12/2022 1:27:00 PM	R90225
Surr: Dibromofluoromethane	106	0	70-130		%Rec	1	8/12/2022 1:27:00 PM	R90225
Surr: Toluene-d8	91.5	0	70-130		%Rec	1	8/12/2022 1:27:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208581-001B

Client Sample ID: MW-35
Collection Date: 8/9/2022 8:50:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	0.30	0.016	0.064		mg/L	1	8/17/2022 6:00:30 PM	69486
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/17/2022 6:00:30 PM	69486
Surr: DNOP	104	0	42.2-138		%Rec	1	8/17/2022 6:00:30 PM	69486

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208581-001C

Client Sample ID: MW-35
Collection Date: 8/9/2022 8:50:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.78	0.23	0.50		mg/L	5	8/10/2022 10:25:36 PM	A90177
Chloride	260	5.0	10	*	mg/L	20	8/10/2022 10:38:28 PM	A90177
Nitrogen, Nitrite (As N)	ND	0.057	0.50		mg/L	5	8/10/2022 10:25:36 PM	A90177
Bromide	3.6	0.25	0.50		mg/L	5	8/10/2022 10:25:36 PM	A90177
Nitrogen, Nitrate (As N)	ND	0.10	0.50		mg/L	5	8/10/2022 10:25:36 PM	A90177
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5		mg/L	5	8/10/2022 10:25:36 PM	A90177
Sulfate	460	5.0	10	*	mg/L	20	8/10/2022 10:38:28 PM	A90177
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	790	0	1.0	H	mg CO2/	1	8/18/2022 4:38:29 PM	R90412
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	847.8	20.00	20.00		mg/L Ca	1	8/18/2022 4:38:29 PM	R90412
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/18/2022 4:38:29 PM	R90412
Total Alkalinity (as CaCO3)	847.8	20.00	20.00		mg/L Ca	1	8/18/2022 4:38:29 PM	R90412
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	2020	20.0	20.0	*	mg/L	1	8/14/2022 7:40:00 PM	69469

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-35
Project: Bloomfield Terminal
Collection Date: 8/9/2022 8:50:00 AM
Lab ID: 2208581-001D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.18	0.0011	0.0020		mg/L	1	8/30/2022 4:11:10 PM	C90720
Cadmium	ND	0.00098	0.0020		mg/L	1	8/30/2022 4:11:10 PM	C90720
Calcium	150	0.57	5.0		mg/L	5	8/30/2022 4:17:11 PM	C90720
Chromium	ND	0.0020	0.0060		mg/L	1	8/30/2022 4:11:10 PM	C90720
Iron	1.1	0.052	0.10	*	mg/L	5	8/30/2022 4:17:11 PM	C90720
Magnesium	26	0.067	1.0		mg/L	1	8/30/2022 4:11:10 PM	C90720
Manganese	3.2	0.0029	0.010	*	mg/L	5	8/30/2022 4:17:11 PM	C90720
Potassium	2.9	0.16	1.0		mg/L	1	8/30/2022 4:11:10 PM	C90720
Silver	0.0030	0.0013	0.0050	J	mg/L	1	8/30/2022 4:11:10 PM	C90720
Sodium	590	3.3	10		mg/L	10	9/15/2022 9:38:10 AM	A81047
Zinc	0.0057	0.0032	0.010	J	mg/L	1	8/30/2022 4:11:10 PM	C90720
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.0033	0.00012	0.0010		mg/L	1	8/18/2022 8:22:30 PM	D90407
Copper	0.00037	0.00037	0.0010	J	mg/L	1	8/18/2022 8:22:30 PM	D90407
Lead	ND	0.000057	0.00050		mg/L	1	8/18/2022 8:22:30 PM	D90407
Selenium	0.00044	0.00034	0.0010	J	mg/L	1	8/18/2022 8:22:30 PM	D90407
Uranium	0.0017	0.000065	0.00050		mg/L	1	8/18/2022 8:22:30 PM	D90407
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/30/2022 3:15:53 PM	69835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-35
Project: Bloomfield Terminal
Collection Date: 8/9/2022 8:50:00 AM
Lab ID: 2208581-001E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	0.20	0.0016	0.0030		mg/L	1	8/22/2022 7:20:30 AM	69645
Cadmium	ND	0.0018	0.0020		mg/L	1	8/22/2022 7:20:30 AM	69645
Chromium	ND	0.0020	0.0060		mg/L	1	8/22/2022 7:20:30 AM	69645
Silver	ND	0.0018	0.0050		mg/L	1	8/22/2022 7:20:30 AM	69645
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0043	0.00013	0.0010		mg/L	1	8/23/2022 1:40:51 PM	69645
Lead	0.00060	0.000061	0.00050		mg/L	1	8/23/2022 1:40:51 PM	69645
Selenium	ND	0.00037	0.0010		mg/L	1	8/23/2022 1:40:51 PM	69645
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/30/2022 3:18:03 PM	69835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-35-FB
Project: Bloomfield Terminal
Collection Date: 8/9/2022 8:50:00 AM
Lab ID: 2208581-002A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/17/2022 10:29:12 PM	G90345
Surr: BFB	108	0	70-130		%Rec	1	8/17/2022 10:29:12 PM	G90345
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Toluene	ND	0.20	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Naphthalene	ND	0.50	2.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Acetone	ND	2.5	10		µg/L	1	8/12/2022 2:37:00 PM	R90225
Bromobenzene	ND	0.28	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Bromoform	ND	0.31	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Bromomethane	ND	0.85	3.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
2-Butanone	ND	2.0	10		µg/L	1	8/12/2022 2:37:00 PM	R90225
Carbon disulfide	ND	0.59	10		µg/L	1	8/12/2022 2:37:00 PM	R90225
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Chloroethane	ND	0.38	2.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Chloroform	ND	0.13	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Chloromethane	ND	0.41	3.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Dibromomethane	ND	0.31	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-35-FB
Project: Bloomfield Terminal
Collection Date: 8/9/2022 8:50:00 AM
Lab ID: 2208581-002A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
2-Hexanone	ND	1.8	10		µg/L	1	8/12/2022 2:37:00 PM	R90225
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/12/2022 2:37:00 PM	R90225
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Styrene	ND	0.14	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/12/2022 2:37:00 PM	R90225
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/12/2022 2:37:00 PM	R90225
Surr: 1,2-Dichloroethane-d4	119	0	70-130		%Rec	1	8/12/2022 2:37:00 PM	R90225
Surr: 4-Bromofluorobenzene	95.7	0	70-130		%Rec	1	8/12/2022 2:37:00 PM	R90225
Surr: Dibromofluoromethane	111	0	70-130		%Rec	1	8/12/2022 2:37:00 PM	R90225
Surr: Toluene-d8	91.8	0	70-130		%Rec	1	8/12/2022 2:37:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-34
Project: Bloomfield Terminal
Collection Date: 8/9/2022 9:40:00 AM
Lab ID: 2208581-003A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	0.17	0.0090	0.050		mg/L	1	8/17/2022 10:52:46 PM	G90345
Surr: BFB	102	0	70-130		%Rec	1	8/17/2022 10:52:46 PM	G90345
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Toluene	ND	0.20	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Naphthalene	ND	0.50	2.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Acetone	ND	2.5	10		µg/L	1	8/12/2022 3:00:00 PM	R90225
Bromobenzene	ND	0.28	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Bromoform	ND	0.31	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Bromomethane	ND	0.85	3.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
2-Butanone	ND	2.0	10		µg/L	1	8/12/2022 3:00:00 PM	R90225
Carbon disulfide	ND	0.59	10		µg/L	1	8/12/2022 3:00:00 PM	R90225
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Chloroethane	ND	0.38	2.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Chloroform	ND	0.13	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Chloromethane	ND	0.41	3.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Dibromomethane	ND	0.31	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-34
Project: Bloomfield Terminal
Collection Date: 8/9/2022 9:40:00 AM
Lab ID: 2208581-003A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
2-Hexanone	ND	1.8	10		µg/L	1	8/12/2022 3:00:00 PM	R90225
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/12/2022 3:00:00 PM	R90225
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Styrene	ND	0.14	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/12/2022 3:00:00 PM	R90225
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/12/2022 3:00:00 PM	R90225
Surr: 1,2-Dichloroethane-d4	115	0	70-130		%Rec	1	8/12/2022 3:00:00 PM	R90225
Surr: 4-Bromofluorobenzene	96.4	0	70-130		%Rec	1	8/12/2022 3:00:00 PM	R90225
Surr: Dibromofluoromethane	108	0	70-130		%Rec	1	8/12/2022 3:00:00 PM	R90225
Surr: Toluene-d8	92.1	0	70-130		%Rec	1	8/12/2022 3:00:00 PM	R90225

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208581-003B

Client Sample ID: MW-34
Collection Date: 8/9/2022 9:40:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	0.37	0.016	0.064		mg/L	1	8/17/2022 6:24:21 PM	69486
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/17/2022 6:24:21 PM	69486
Surr: DNOP	102	0	42.2-138		%Rec	1	8/17/2022 6:24:21 PM	69486

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-34
Project: Bloomfield Terminal
Collection Date: 8/9/2022 9:40:00 AM
Lab ID: 2208581-003C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.56	0.23	0.50		mg/L	5	8/10/2022 10:51:20 PM	A90177
Chloride	240	5.0	10		mg/L	20	8/10/2022 11:04:12 PM	A90177
Nitrogen, Nitrite (As N)	ND	0.057	0.50		mg/L	5	8/10/2022 10:51:20 PM	A90177
Bromide	3.4	0.25	0.50		mg/L	5	8/10/2022 10:51:20 PM	A90177
Nitrogen, Nitrate (As N)	ND	0.10	0.50		mg/L	5	8/10/2022 10:51:20 PM	A90177
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5		mg/L	5	8/10/2022 10:51:20 PM	A90177
Sulfate	650	5.0	10	*	mg/L	20	8/10/2022 11:04:12 PM	A90177
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	760	0	1.0	H	mg CO2/	1	8/18/2022 5:09:15 PM	R90412
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	821.3	20.00	20.00		mg/L Ca	1	8/18/2022 5:09:15 PM	R90412
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/18/2022 5:09:15 PM	R90412
Total Alkalinity (as CaCO3)	821.3	20.00	20.00		mg/L Ca	1	8/18/2022 5:09:15 PM	R90412
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	2200	20.0	20.0	*	mg/L	1	8/14/2022 7:40:00 PM	69469

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
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Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208581-003D

Client Sample ID: MW-34
Collection Date: 8/9/2022 9:40:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.048	0.0011	0.0020		mg/L	1	8/30/2022 4:23:11 PM	C90720
Cadmium	ND	0.00098	0.0020		mg/L	1	8/30/2022 4:23:11 PM	C90720
Calcium	160	0.57	5.0		mg/L	5	8/30/2022 4:25:16 PM	C90720
Chromium	ND	0.0020	0.0060		mg/L	1	8/30/2022 4:23:11 PM	C90720
Iron	3.6	0.052	0.10	*	mg/L	5	8/30/2022 4:25:16 PM	C90720
Magnesium	28	0.067	1.0		mg/L	1	8/30/2022 4:23:11 PM	C90720
Manganese	5.3	0.0058	0.020	*	mg/L	10	9/6/2022 4:13:35 PM	A90845
Potassium	1.3	0.16	1.0		mg/L	1	8/30/2022 4:23:11 PM	C90720
Silver	0.0030	0.0013	0.0050	J	mg/L	1	8/30/2022 4:23:11 PM	C90720
Sodium	640	3.3	10		mg/L	10	9/15/2022 9:39:41 AM	A81047
Zinc	0.0061	0.0032	0.010	J	mg/L	1	8/30/2022 4:23:11 PM	C90720
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.0020	0.00012	0.0010		mg/L	1	8/18/2022 8:25:11 PM	D90407
Copper	ND	0.00037	0.0010		mg/L	1	8/18/2022 8:25:11 PM	D90407
Lead	ND	0.000057	0.00050		mg/L	1	8/18/2022 8:25:11 PM	D90407
Selenium	0.00058	0.00034	0.0010	J	mg/L	1	8/18/2022 8:25:11 PM	D90407
Uranium	0.0017	0.000065	0.00050		mg/L	1	8/18/2022 8:25:11 PM	D90407
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/30/2022 3:20:12 PM	69835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-34
Project: Bloomfield Terminal
Collection Date: 8/9/2022 9:40:00 AM
Lab ID: 2208581-003E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	0.051	0.0016	0.0030		mg/L	1	8/22/2022 7:23:41 AM	69645
Cadmium	ND	0.0018	0.0020		mg/L	1	8/22/2022 7:23:41 AM	69645
Chromium	ND	0.0020	0.0060		mg/L	1	8/22/2022 7:23:41 AM	69645
Silver	ND	0.0018	0.0050		mg/L	1	8/22/2022 7:23:41 AM	69645
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0017	0.00013	0.0010		mg/L	1	8/23/2022 1:50:39 PM	69645
Lead	0.00042	0.000061	0.00050	J	mg/L	1	8/23/2022 1:50:39 PM	69645
Selenium	ND	0.00037	0.0010		mg/L	1	8/23/2022 4:09:27 PM	69645
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/30/2022 3:22:20 PM	69835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-34-FD
Project: Bloomfield Terminal
Collection Date: 8/9/2022 9:40:00 AM
Lab ID: 2208581-004A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	0.15	0.0090	0.050		mg/L	1	8/17/2022 11:16:28 PM	G90345
Surr: BFB	104	0	70-130		%Rec	1	8/17/2022 11:16:28 PM	G90345
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Toluene	ND	0.20	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Naphthalene	ND	0.50	2.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Acetone	ND	2.5	10		µg/L	1	8/12/2022 3:24:00 PM	R90225
Bromobenzene	ND	0.28	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Bromoform	ND	0.31	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Bromomethane	ND	0.85	3.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
2-Butanone	ND	2.0	10		µg/L	1	8/12/2022 3:24:00 PM	R90225
Carbon disulfide	ND	0.59	10		µg/L	1	8/12/2022 3:24:00 PM	R90225
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Chloroethane	ND	0.38	2.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Chloroform	ND	0.13	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Chloromethane	ND	0.41	3.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Dibromomethane	ND	0.31	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-34-FD
Project: Bloomfield Terminal
Collection Date: 8/9/2022 9:40:00 AM
Lab ID: 2208581-004A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
2-Hexanone	ND	1.8	10		µg/L	1	8/12/2022 3:24:00 PM	R90225
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/12/2022 3:24:00 PM	R90225
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Styrene	ND	0.14	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/12/2022 3:24:00 PM	R90225
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/12/2022 3:24:00 PM	R90225
Surr: 1,2-Dichloroethane-d4	116	0	70-130		%Rec	1	8/12/2022 3:24:00 PM	R90225
Surr: 4-Bromofluorobenzene	96.2	0	70-130		%Rec	1	8/12/2022 3:24:00 PM	R90225
Surr: Dibromofluoromethane	109	0	70-130		%Rec	1	8/12/2022 3:24:00 PM	R90225
Surr: Toluene-d8	91.3	0	70-130		%Rec	1	8/12/2022 3:24:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208581-004B

Client Sample ID: MW-34-FD
Collection Date: 8/9/2022 9:40:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	0.28	0.016	0.064		mg/L	1	8/17/2022 6:48:25 PM	69486
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/17/2022 6:48:25 PM	69486
Surr: DNOP	103	0	42.2-138		%Rec	1	8/17/2022 6:48:25 PM	69486

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-34-FD
Project: Bloomfield Terminal
Collection Date: 8/9/2022 9:40:00 AM
Lab ID: 2208581-004C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.57	0.23	0.50		mg/L	5	8/10/2022 11:42:47 PM	A90177
Chloride	240	5.0	10		mg/L	20	8/10/2022 11:55:38 PM	A90177
Nitrogen, Nitrite (As N)	ND	0.057	0.50		mg/L	5	8/10/2022 11:42:47 PM	A90177
Bromide	3.4	0.25	0.50		mg/L	5	8/10/2022 11:42:47 PM	A90177
Nitrogen, Nitrate (As N)	ND	0.10	0.50		mg/L	5	8/10/2022 11:42:47 PM	A90177
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5		mg/L	5	8/10/2022 11:42:47 PM	A90177
Sulfate	640	5.0	10	*	mg/L	20	8/10/2022 11:55:38 PM	A90177
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	760	0	1.0	H	mg CO2/	1	8/18/2022 5:38:55 PM	R90412
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	831.1	20.00	20.00		mg/L Ca	1	8/18/2022 5:38:55 PM	R90412
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/18/2022 5:38:55 PM	R90412
Total Alkalinity (as CaCO3)	831.1	20.00	20.00		mg/L Ca	1	8/18/2022 5:38:55 PM	R90412
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	2240	20.0	20.0	*	mg/L	1	8/14/2022 7:40:00 PM	69469

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Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-34-FD
Project: Bloomfield Terminal
Collection Date: 8/9/2022 9:40:00 AM
Lab ID: 2208581-004D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.044	0.0011	0.0020		mg/L	1	8/30/2022 4:33:47 PM	C90720
Cadmium	ND	0.00098	0.0020		mg/L	1	8/30/2022 4:33:47 PM	C90720
Calcium	160	0.57	5.0		mg/L	5	8/30/2022 4:35:55 PM	C90720
Chromium	ND	0.0020	0.0060		mg/L	1	8/30/2022 4:33:47 PM	C90720
Iron	2.7	0.052	0.10	*	mg/L	5	8/30/2022 4:35:55 PM	C90720
Magnesium	27	0.067	1.0		mg/L	1	8/30/2022 4:33:47 PM	C90720
Manganese	5.1	0.0058	0.020	*	mg/L	10	9/6/2022 4:15:42 PM	A90845
Potassium	1.2	0.16	1.0		mg/L	1	8/30/2022 4:33:47 PM	C90720
Silver	0.0032	0.0013	0.0050	J	mg/L	1	8/30/2022 4:33:47 PM	C90720
Sodium	660	3.3	10		mg/L	10	9/14/2022 12:25:57 PM	A91031
Zinc	0.0041	0.0032	0.010	J	mg/L	1	8/30/2022 4:33:47 PM	C90720
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.0018	0.00012	0.0010		mg/L	1	8/18/2022 8:33:17 PM	D90407
Copper	0.00039	0.00037	0.0010	J	mg/L	1	8/18/2022 8:33:17 PM	D90407
Lead	0.000069	0.000057	0.00050	J	mg/L	1	8/18/2022 8:33:17 PM	D90407
Selenium	0.00061	0.00034	0.0010	J	mg/L	1	8/18/2022 8:33:17 PM	D90407
Uranium	0.0018	0.000065	0.00050		mg/L	1	8/18/2022 8:33:17 PM	D90407
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/30/2022 3:24:29 PM	69835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-34-FD
Project: Bloomfield Terminal
Collection Date: 8/9/2022 9:40:00 AM
Lab ID: 2208581-004E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	0.046	0.0016	0.0030		mg/L	1	8/22/2022 7:26:49 AM	69645
Cadmium	ND	0.0018	0.0020		mg/L	1	8/22/2022 7:26:49 AM	69645
Chromium	ND	0.0020	0.0060		mg/L	1	8/22/2022 7:26:49 AM	69645
Silver	ND	0.0018	0.0050		mg/L	1	8/22/2022 7:26:49 AM	69645
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0017	0.00013	0.0010		mg/L	1	8/23/2022 1:53:05 PM	69645
Lead	0.00028	0.000061	0.00050	J	mg/L	1	8/23/2022 1:53:05 PM	69645
Selenium	ND	0.00037	0.0010		mg/L	1	8/23/2022 4:11:54 PM	69645
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/30/2022 3:26:38 PM	69835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-38
Project: Bloomfield Terminal
Collection Date: 8/9/2022 10:20:00 AM
Lab ID: 2208581-005A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	0.012	0.0090	0.050	J	mg/L	1	8/17/2022 11:40:09 PM	G90345
Surr: BFB	111	0	70-130		%Rec	1	8/17/2022 11:40:09 PM	G90345
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Toluene	ND	0.20	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Naphthalene	ND	0.50	2.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Acetone	6.4	2.5	10	J	µg/L	1	8/12/2022 3:47:00 PM	R90225
Bromobenzene	ND	0.28	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Bromoform	ND	0.31	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Bromomethane	ND	0.85	3.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
2-Butanone	ND	2.0	10		µg/L	1	8/12/2022 3:47:00 PM	R90225
Carbon disulfide	ND	0.59	10		µg/L	1	8/12/2022 3:47:00 PM	R90225
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Chloroethane	ND	0.38	2.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Chloroform	ND	0.13	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Chloromethane	ND	0.41	3.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Dibromomethane	ND	0.31	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-38
Project: Bloomfield Terminal
Collection Date: 8/9/2022 10:20:00 AM
Lab ID: 2208581-005A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
2-Hexanone	ND	1.8	10		µg/L	1	8/12/2022 3:47:00 PM	R90225
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/12/2022 3:47:00 PM	R90225
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Styrene	ND	0.14	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/12/2022 3:47:00 PM	R90225
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/12/2022 3:47:00 PM	R90225
Surr: 1,2-Dichloroethane-d4	118	0	70-130		%Rec	1	8/12/2022 3:47:00 PM	R90225
Surr: 4-Bromofluorobenzene	99.0	0	70-130		%Rec	1	8/12/2022 3:47:00 PM	R90225
Surr: Dibromofluoromethane	115	0	70-130		%Rec	1	8/12/2022 3:47:00 PM	R90225
Surr: Toluene-d8	90.1	0	70-130		%Rec	1	8/12/2022 3:47:00 PM	R90225

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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-38
Project: Bloomfield Terminal
Collection Date: 8/9/2022 10:20:00 AM
Lab ID: 2208581-005B
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	0.19	0.016	0.064		mg/L	1	8/17/2022 7:12:38 PM	69486
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/17/2022 7:12:38 PM	69486
Surr: DNOP	101	0	42.2-138		%Rec	1	8/17/2022 7:12:38 PM	69486
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	5.7	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Acenaphthylene	ND	5.8	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Aniline	ND	6.2	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Anthracene	ND	6.3	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Azobenzene	ND	7.4	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Benz(a)anthracene	ND	4.7	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
Benzo(a)pyrene	ND	5.8	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Benzo(b)fluoranthene	ND	5.0	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Benzo(g,h,i)perylene	ND	4.2	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
Benzo(k)fluoranthene	ND	6.2	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Benzoic acid	ND	18	20		µg/L	1	8/18/2022 4:52:22 PM	69456
Benzyl alcohol	ND	4.3	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
Bis(2-chloroethoxy)methane	ND	5.7	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Bis(2-chloroethyl)ether	ND	6.2	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Bis(2-chloroisopropyl)ether	ND	4.9	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
Bis(2-ethylhexyl)phthalate	ND	8.4	10		µg/L	1	8/18/2022 4:52:22 PM	69456
4-Bromophenyl phenyl ether	ND	7.9	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Butyl benzyl phthalate	ND	8.3	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Carbazole	ND	6.2	10		µg/L	1	8/18/2022 4:52:22 PM	69456
4-Chloro-3-methylphenol	ND	4.4	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
4-Chloroaniline	ND	4.5	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
2-Chloronaphthalene	ND	5.9	10		µg/L	1	8/18/2022 4:52:22 PM	69456
2-Chlorophenol	ND	4.7	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
4-Chlorophenyl phenyl ether	ND	6.1	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Chrysene	ND	5.3	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Di-n-butyl phthalate	ND	7.7	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Di-n-octyl phthalate	ND	12	20		µg/L	1	8/18/2022 4:52:22 PM	69456
Dibenz(a,h)anthracene	ND	5.1	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Dibenzofuran	ND	6.2	10		µg/L	1	8/18/2022 4:52:22 PM	69456
1,2-Dichlorobenzene	ND	3.3	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
1,3-Dichlorobenzene	ND	3.3	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
1,4-Dichlorobenzene	ND	2.4	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
3,3´-Dichlorobenzidine	ND	6.6	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Diethyl phthalate	ND	6.0	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Dimethyl phthalate	ND	6.0	10		µg/L	1	8/18/2022 4:52:22 PM	69456
2,4-Dichlorophenol	ND	4.1	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-38
Project: Bloomfield Terminal
Collection Date: 8/9/2022 10:20:00 AM
Lab ID: 2208581-005B
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
2,4-Dimethylphenol	ND	5.8	10		µg/L	1	8/18/2022 4:52:22 PM	69456
4,6-Dinitro-2-methylphenol	ND	6.8	10		µg/L	1	8/18/2022 4:52:22 PM	69456
2,4-Dinitrophenol	ND	16	20		µg/L	1	8/18/2022 4:52:22 PM	69456
2,4-Dinitrotoluene	ND	4.9	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
2,6-Dinitrotoluene	ND	7.2	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Fluoranthene	ND	7.3	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Fluorene	ND	6.5	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Hexachlorobenzene	ND	19	20		µg/L	1	8/18/2022 4:52:22 PM	69456
Hexachlorobutadiene	ND	17	20		µg/L	1	8/18/2022 4:52:22 PM	69456
Hexachlorocyclopentadiene	ND	18	20		µg/L	1	8/18/2022 4:52:22 PM	69456
Hexachloroethane	ND	14	20		µg/L	1	8/18/2022 4:52:22 PM	69456
Indeno(1,2,3-cd)pyrene	ND	5.8	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Isophorone	ND	4.3	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
1-Methylnaphthalene	ND	4.3	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
2-Methylnaphthalene	ND	4.2	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
2-Methylphenol	ND	5.0	10		µg/L	1	8/18/2022 4:52:22 PM	69456
3+4-Methylphenol	ND	5.1	10		µg/L	1	8/18/2022 4:52:22 PM	69456
N-Nitrosodi-n-propylamine	ND	4.6	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
N-Nitrosodimethylamine	ND	3.9	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
N-Nitrosodiphenylamine	ND	7.3	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Naphthalene	ND	3.2	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
2-Nitroaniline	ND	5.3	10		µg/L	1	8/18/2022 4:52:22 PM	69456
3-Nitroaniline	ND	5.7	10		µg/L	1	8/18/2022 4:52:22 PM	69456
4-Nitroaniline	ND	4.4	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
Nitrobenzene	ND	4.9	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
2-Nitrophenol	ND	5.2	10		µg/L	1	8/18/2022 4:52:22 PM	69456
4-Nitrophenol	ND	3.3	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Pentachlorophenol	ND	27	40		µg/L	1	8/18/2022 4:52:22 PM	69456
Phenanthrene	ND	8.3	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Phenol	ND	18	20		µg/L	1	8/18/2022 4:52:22 PM	69456
Pyrene	ND	7.1	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Pyridine	ND	14	40		µg/L	1	8/18/2022 4:52:22 PM	69456
1,2,4-Trichlorobenzene	ND	4.4	5.0		µg/L	1	8/18/2022 4:52:22 PM	69456
2,4,5-Trichlorophenol	ND	6.3	10		µg/L	1	8/18/2022 4:52:22 PM	69456
2,4,6-Trichlorophenol	ND	5.9	10		µg/L	1	8/18/2022 4:52:22 PM	69456
Surr: 2-Fluorophenol	35.1	0	15-84.5		%Rec	1	8/18/2022 4:52:22 PM	69456
Surr: Phenol-d5	26.6	0	15-67		%Rec	1	8/18/2022 4:52:22 PM	69456
Surr: 2,4,6-Tribromophenol	59.6	0	15-108		%Rec	1	8/18/2022 4:52:22 PM	69456
Surr: Nitrobenzene-d5	46.7	0	16.8-112		%Rec	1	8/18/2022 4:52:22 PM	69456
Surr: 2-Fluorobiphenyl	43.7	0	15-101		%Rec	1	8/18/2022 4:52:22 PM	69456

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208581-005B

Client Sample ID: MW-38
Collection Date: 8/9/2022 10:20:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 4-Terphenyl-d14	84.1	0	34.4-134		%Rec	1	8/18/2022 4:52:22 PM	69456

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-38
Project: Bloomfield Terminal
Collection Date: 8/9/2022 10:20:00 AM
Lab ID: 2208581-005C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.55	0.23	0.50		mg/L	5	8/11/2022 12:08:31 AM	A90177
Chloride	130	5.0	10		mg/L	20	8/11/2022 12:21:23 AM	A90177
Nitrogen, Nitrite (As N)	ND	0.057	0.50		mg/L	5	8/11/2022 12:08:31 AM	A90177
Bromide	2.0	0.25	0.50		mg/L	5	8/11/2022 12:08:31 AM	A90177
Nitrogen, Nitrate (As N)	ND	0.10	0.50		mg/L	5	8/11/2022 12:08:31 AM	A90177
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5		mg/L	5	8/11/2022 12:08:31 AM	A90177
Sulfate	4.0	1.2	2.5		mg/L	5	8/11/2022 12:08:31 AM	A90177
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	570	0	1.0	H	mg CO2/	1	8/18/2022 6:08:37 PM	R90412
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	618.6	20.00	20.00		mg/L Ca	1	8/18/2022 6:08:37 PM	R90412
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/18/2022 6:08:37 PM	R90412
Total Alkalinity (as CaCO3)	618.6	20.00	20.00		mg/L Ca	1	8/18/2022 6:08:37 PM	R90412
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	909	20.0	20.0	*	mg/L	1	8/14/2022 7:40:00 PM	69469

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208581-005D

Client Sample ID: MW-38
Collection Date: 8/9/2022 10:20:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.47	0.0011	0.0020		mg/L	1	8/30/2022 4:37:51 PM	C90720
Cadmium	ND	0.00098	0.0020		mg/L	1	8/30/2022 4:37:51 PM	C90720
Calcium	130	0.57	5.0		mg/L	5	8/30/2022 4:39:50 PM	C90720
Chromium	ND	0.0020	0.0060		mg/L	1	8/30/2022 4:37:51 PM	C90720
Iron	1.2	0.052	0.10	*	mg/L	5	8/30/2022 4:39:50 PM	C90720
Magnesium	21	0.067	1.0		mg/L	1	8/30/2022 4:37:51 PM	C90720
Manganese	2.3	0.0029	0.010	*	mg/L	5	8/30/2022 4:39:50 PM	C90720
Potassium	1.9	0.16	1.0		mg/L	1	8/30/2022 4:37:51 PM	C90720
Silver	0.0035	0.0013	0.0050	J	mg/L	1	8/30/2022 4:37:51 PM	C90720
Sodium	210	1.7	5.0		mg/L	5	8/30/2022 4:39:50 PM	C90720
Zinc	0.0093	0.0032	0.010	J	mg/L	1	8/30/2022 4:37:51 PM	C90720
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.0011	0.00012	0.0010		mg/L	1	8/18/2022 8:41:20 PM	D90407
Copper	ND	0.00037	0.0010		mg/L	1	8/18/2022 8:41:20 PM	D90407
Lead	ND	0.000057	0.00050		mg/L	1	8/18/2022 8:41:20 PM	D90407
Selenium	ND	0.00034	0.0010		mg/L	1	8/18/2022 8:41:20 PM	D90407
Uranium	0.0020	0.000065	0.00050		mg/L	1	8/18/2022 8:41:20 PM	D90407
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/30/2022 3:28:46 PM	69835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-38
Project: Bloomfield Terminal
Collection Date: 8/9/2022 10:20:00 AM
Lab ID: 2208581-005E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	0.50	0.0016	0.0030		mg/L	1	8/22/2022 7:29:57 AM	69645
Cadmium	ND	0.0018	0.0020		mg/L	1	8/22/2022 7:29:57 AM	69645
Chromium	ND	0.0020	0.0060		mg/L	1	8/22/2022 7:29:57 AM	69645
Silver	ND	0.0018	0.0050		mg/L	1	8/22/2022 7:29:57 AM	69645
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0014	0.00013	0.0010		mg/L	1	8/23/2022 1:55:32 PM	69645
Lead	0.00018	0.000061	0.00050	J	mg/L	1	8/23/2022 1:55:32 PM	69645
Selenium	ND	0.00037	0.0010		mg/L	1	8/23/2022 4:19:15 PM	69645
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/30/2022 3:30:55 PM	69835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-27
Project: Bloomfield Terminal
Collection Date: 8/9/2022 11:00:00 AM
Lab ID: 2208581-006A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/18/2022 12:03:45 AM	G90345
Surr: BFB	106	0	70-130		%Rec	1	8/18/2022 12:03:45 AM	G90345
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Toluene	ND	0.20	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Naphthalene	ND	0.50	2.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Acetone	12	2.5	10		µg/L	1	8/12/2022 4:11:00 PM	R90225
Bromobenzene	ND	0.28	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Bromoform	ND	0.31	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Bromomethane	ND	0.85	3.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
2-Butanone	ND	2.0	10		µg/L	1	8/12/2022 4:11:00 PM	R90225
Carbon disulfide	ND	0.59	10		µg/L	1	8/12/2022 4:11:00 PM	R90225
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Chloroethane	ND	0.38	2.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Chloroform	ND	0.13	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Chloromethane	ND	0.41	3.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Dibromomethane	ND	0.31	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Estimated value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-27
Project: Bloomfield Terminal
Collection Date: 8/9/2022 11:00:00 AM
Lab ID: 2208581-006A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
2-Hexanone	ND	1.8	10		µg/L	1	8/12/2022 4:11:00 PM	R90225
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/12/2022 4:11:00 PM	R90225
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Styrene	ND	0.14	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/12/2022 4:11:00 PM	R90225
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/12/2022 4:11:00 PM	R90225
Surr: 1,2-Dichloroethane-d4	117	0	70-130		%Rec	1	8/12/2022 4:11:00 PM	R90225
Surr: 4-Bromofluorobenzene	94.3	0	70-130		%Rec	1	8/12/2022 4:11:00 PM	R90225
Surr: Dibromofluoromethane	111	0	70-130		%Rec	1	8/12/2022 4:11:00 PM	R90225
Surr: Toluene-d8	90.5	0	70-130		%Rec	1	8/12/2022 4:11:00 PM	R90225

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Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-27
Project: Bloomfield Terminal
Collection Date: 8/9/2022 11:00:00 AM
Lab ID: 2208581-006B
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	0.25	0.016	0.064		mg/L	1	8/17/2022 7:36:55 PM	69486
Motor Oil Range Organics (MRO)	0.15	0.052	0.080		mg/L	1	8/17/2022 7:36:55 PM	69486
Surr: DNOP	103	0	42.2-138		%Rec	1	8/17/2022 7:36:55 PM	69486

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-27
Project: Bloomfield Terminal
Collection Date: 8/9/2022 11:00:00 AM
Lab ID: 2208581-006C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.33	0.23	0.50	J	mg/L	5	8/11/2022 12:34:14 AM	A90177
Chloride	1300	25	50	*	mg/L	100	8/29/2022 11:46:19 AM	R90644
Nitrogen, Nitrite (As N)	ND	0.057	0.50		mg/L	5	8/11/2022 12:34:14 AM	A90177
Bromide	13	0.25	0.50		mg/L	5	8/11/2022 12:34:14 AM	A90177
Nitrogen, Nitrate (As N)	0.50	0.10	0.50	J	mg/L	5	8/11/2022 12:34:14 AM	A90177
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5		mg/L	5	8/11/2022 12:34:14 AM	A90177
Sulfate	2500	25	50	*	mg/L	100	8/29/2022 11:46:19 AM	R90644
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	230	0	1.0	H	mg CO2/	1	8/18/2022 6:31:50 PM	R90412
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	249.8	20.00	20.00		mg/L Ca	1	8/18/2022 6:31:50 PM	R90412
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/18/2022 6:31:50 PM	R90412
Total Alkalinity (as CaCO3)	249.8	20.00	20.00		mg/L Ca	1	8/18/2022 6:31:50 PM	R90412
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	6460	40.0	40.0	*D	mg/L	1	8/14/2022 7:40:00 PM	69469

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Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-27
Project: Bloomfield Terminal
Collection Date: 8/9/2022 11:00:00 AM
Lab ID: 2208581-006D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.046	0.0011	0.0020		mg/L	1	8/30/2022 4:42:10 PM	C90720
Cadmium	ND	0.00098	0.0020		mg/L	1	8/30/2022 4:42:10 PM	C90720
Calcium	820	1.1	10		mg/L	10	9/6/2022 4:17:49 PM	A90845
Chromium	ND	0.0020	0.0060		mg/L	1	8/30/2022 4:42:10 PM	C90720
Iron	0.16	0.010	0.020		mg/L	1	8/30/2022 4:42:10 PM	C90720
Magnesium	140	0.34	5.0		mg/L	5	8/30/2022 4:44:32 PM	C90720
Manganese	0.026	0.00058	0.0020		mg/L	1	8/30/2022 4:42:10 PM	C90720
Potassium	4.4	0.16	1.0		mg/L	1	8/30/2022 4:42:10 PM	C90720
Silver	0.018	0.0013	0.0050		mg/L	1	8/30/2022 4:42:10 PM	C90720
Sodium	1200	17	50		mg/L	50	9/14/2022 12:27:42 PM	A91031
Zinc	0.0069	0.0032	0.010	J	mg/L	1	8/30/2022 4:42:10 PM	C90720
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.0017	0.00012	0.0010		mg/L	1	8/18/2022 8:44:02 PM	D90407
Copper	0.0047	0.00037	0.0010		mg/L	1	8/24/2022 11:26:16 AM	B90533
Lead	0.000070	0.000057	0.00050	J	mg/L	1	8/18/2022 8:44:02 PM	D90407
Selenium	0.0036	0.00034	0.0010		mg/L	1	8/22/2022 3:12:48 PM	B90513
Uranium	0.061	0.00033	0.0025	*	mg/L	5	8/22/2022 3:15:29 PM	B90513
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/30/2022 3:33:04 PM	69835

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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-27
Project: Bloomfield Terminal
Collection Date: 8/9/2022 11:00:00 AM
Lab ID: 2208581-006E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	0.049	0.0016	0.0030		mg/L	1	8/22/2022 7:32:56 AM	69645
Cadmium	ND	0.0018	0.0020		mg/L	1	8/22/2022 7:32:56 AM	69645
Chromium	ND	0.0020	0.0060		mg/L	1	8/22/2022 7:32:56 AM	69645
Silver	0.0088	0.0018	0.0050		mg/L	1	8/22/2022 7:32:56 AM	69645
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.00087	0.00013	0.0010	J	mg/L	1	8/23/2022 1:57:58 PM	69645
Lead	0.00012	0.000061	0.00050	J	mg/L	1	8/23/2022 1:57:58 PM	69645
Selenium	0.0027	0.00037	0.0010		mg/L	1	8/23/2022 4:21:41 PM	69645
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/30/2022 3:35:13 PM	69835

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Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-27-FB
Project: Bloomfield Terminal
Collection Date: 8/9/2022 11:00:00 AM
Lab ID: 2208581-007A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/18/2022 12:27:22 AM	G90345
Surr: BFB	109	0	70-130		%Rec	1	8/18/2022 12:27:22 AM	G90345
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Toluene	ND	0.20	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Naphthalene	ND	0.50	2.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Acetone	8.2	2.5	10	J	µg/L	1	8/12/2022 4:34:00 PM	R90225
Bromobenzene	ND	0.28	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Bromoform	ND	0.31	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Bromomethane	ND	0.85	3.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
2-Butanone	ND	2.0	10		µg/L	1	8/12/2022 4:34:00 PM	R90225
Carbon disulfide	ND	0.59	10		µg/L	1	8/12/2022 4:34:00 PM	R90225
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Chloroethane	ND	0.38	2.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Chloroform	ND	0.13	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Chloromethane	ND	0.41	3.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Dibromomethane	ND	0.31	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-27-FB
Project: Bloomfield Terminal
Collection Date: 8/9/2022 11:00:00 AM
Lab ID: 2208581-007A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
2-Hexanone	ND	1.8	10		µg/L	1	8/12/2022 4:34:00 PM	R90225
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/12/2022 4:34:00 PM	R90225
Methylene Chloride	1.5	0.50	3.0	J	µg/L	1	8/12/2022 4:34:00 PM	R90225
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Styrene	ND	0.14	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/12/2022 4:34:00 PM	R90225
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/12/2022 4:34:00 PM	R90225
Surr: 1,2-Dichloroethane-d4	117	0	70-130		%Rec	1	8/12/2022 4:34:00 PM	R90225
Surr: 4-Bromofluorobenzene	96.1	0	70-130		%Rec	1	8/12/2022 4:34:00 PM	R90225
Surr: Dibromofluoromethane	111	0	70-130		%Rec	1	8/12/2022 4:34:00 PM	R90225
Surr: Toluene-d8	91.6	0	70-130		%Rec	1	8/12/2022 4:34:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208581-007B

Client Sample ID: MW-27-FB
Collection Date: 8/9/2022 11:00:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	0.020	0.016	0.064	J	mg/L	1	8/17/2022 8:01:10 PM	69486
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/17/2022 8:01:10 PM	69486
Surr: DNOP	82.2	0	42.2-138		%Rec	1	8/17/2022 8:01:10 PM	69486

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208581-007C

Client Sample ID: MW-27-FB
Collection Date: 8/9/2022 11:00:00 AM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	ND	0.23	0.50		mg/L	5	8/11/2022 12:59:57 AM	A90177
Chloride	ND	1.2	2.5		mg/L	5	8/11/2022 12:59:57 AM	A90177
Nitrogen, Nitrite (As N)	ND	0.057	0.50		mg/L	5	8/11/2022 12:59:57 AM	A90177
Bromide	ND	0.25	0.50		mg/L	5	8/11/2022 12:59:57 AM	A90177
Nitrogen, Nitrate (As N)	ND	0.10	0.50		mg/L	5	8/11/2022 12:59:57 AM	A90177
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5		mg/L	5	8/11/2022 12:59:57 AM	A90177
Sulfate	ND	1.2	2.5		mg/L	5	8/11/2022 12:59:57 AM	A90177
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	13	0	1.0	H	mg CO2/	1	8/18/2022 6:45:01 PM	R90412
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	ND	20.00	20.00		mg/L Ca	1	8/18/2022 6:45:01 PM	R90412
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/18/2022 6:45:01 PM	R90412
Total Alkalinity (as CaCO3)	ND	20.00	20.00		mg/L Ca	1	8/18/2022 6:45:01 PM	R90412
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	ND	20.0	20.0		mg/L	1	8/14/2022 7:40:00 PM	69469

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-27-FB
Project: Bloomfield Terminal
Collection Date: 8/9/2022 11:00:00 AM
Lab ID: 2208581-007D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	ND	0.0011	0.0020		mg/L	1	8/30/2022 4:46:45 PM	C90720
Cadmium	ND	0.00098	0.0020		mg/L	1	8/30/2022 4:46:45 PM	C90720
Calcium	ND	0.11	1.0		mg/L	1	8/30/2022 4:46:45 PM	C90720
Chromium	ND	0.0020	0.0060		mg/L	1	8/30/2022 4:46:45 PM	C90720
Iron	ND	0.010	0.020		mg/L	1	8/30/2022 4:46:45 PM	C90720
Magnesium	ND	0.067	1.0		mg/L	1	8/30/2022 4:46:45 PM	C90720
Manganese	ND	0.00058	0.0020		mg/L	1	8/30/2022 4:46:45 PM	C90720
Potassium	ND	0.16	1.0		mg/L	1	8/30/2022 4:46:45 PM	C90720
Silver	ND	0.0013	0.0050		mg/L	1	8/30/2022 4:46:45 PM	C90720
Sodium	0.36	0.33	1.0	J	mg/L	1	8/30/2022 4:46:45 PM	C90720
Zinc	0.0050	0.0032	0.010	J	mg/L	1	8/30/2022 4:46:45 PM	C90720
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	ND	0.00012	0.0010		mg/L	1	8/18/2022 8:46:43 PM	D90407
Copper	ND	0.00037	0.0010		mg/L	1	8/18/2022 8:46:43 PM	D90407
Lead	ND	0.000057	0.00050		mg/L	1	8/18/2022 8:46:43 PM	D90407
Selenium	ND	0.00034	0.0010		mg/L	1	8/18/2022 8:46:43 PM	D90407
Uranium	ND	0.000065	0.00050		mg/L	1	8/18/2022 8:46:43 PM	D90407
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/30/2022 3:41:38 PM	69835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-27-FB
Project: Bloomfield Terminal
Collection Date: 8/9/2022 11:00:00 AM
Lab ID: 2208581-007E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **JRR**	
Barium	ND	0.0016	0.0030		mg/L	1	8/25/2022 2:33:51 PM	A90598
Cadmium	ND	0.0018	0.0020		mg/L	1	8/25/2022 2:33:51 PM	A90598
Chromium	ND	0.0020	0.0060		mg/L	1	8/25/2022 2:33:51 PM	A90598
Silver	ND	0.0018	0.0050		mg/L	1	8/25/2022 2:33:51 PM	A90598
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	ND	0.00013	0.0010		mg/L	1	8/24/2022 10:39:06 AM	A90533
Lead	ND	0.000061	0.00050		mg/L	1	8/24/2022 10:39:06 AM	A90533
Selenium	ND	0.00037	0.0010		mg/L	1	8/24/2022 10:39:06 AM	A90533
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/30/2022 3:43:47 PM	69835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-26
Project: Bloomfield Terminal
Collection Date: 8/9/2022 11:40:00 AM
Lab ID: 2208581-008A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	0.47	0.0090	0.050	P	mg/L	1	8/18/2022 12:50:59 AM	G90345
Surr: BFB	564	0	70-130	SP	%Rec	1	8/18/2022 12:50:59 AM	G90345
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	0.28	0.23	1.0	J	µg/L	1	8/12/2022 5:21:00 PM	R90225
Toluene	ND	0.20	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Ethylbenzene	0.60	0.21	1.0	J	µg/L	1	8/12/2022 5:21:00 PM	R90225
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Naphthalene	87	5.0	20	P	µg/L	10	8/12/2022 4:57:00 PM	R90225
1-Methylnaphthalene	23	0.84	4.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
2-Methylnaphthalene	27	0.69	4.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Acetone	5.4	2.5	10	J	µg/L	1	8/12/2022 5:21:00 PM	R90225
Bromobenzene	ND	0.28	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Bromoform	ND	0.31	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Bromomethane	ND	0.85	3.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
2-Butanone	ND	2.0	10		µg/L	1	8/12/2022 5:21:00 PM	R90225
Carbon disulfide	ND	0.59	10		µg/L	1	8/12/2022 5:21:00 PM	R90225
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Chloroethane	ND	0.38	2.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Chloroform	ND	0.13	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Chloromethane	ND	0.41	3.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Dibromomethane	ND	0.31	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-26
Project: Bloomfield Terminal
Collection Date: 8/9/2022 11:40:00 AM
Lab ID: 2208581-008A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
2-Hexanone	ND	1.8	10		µg/L	1	8/12/2022 5:21:00 PM	R90225
Isopropylbenzene	42	0.18	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
4-Isopropyltoluene	0.43	0.20	1.0	J	µg/L	1	8/12/2022 5:21:00 PM	R90225
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/12/2022 5:21:00 PM	R90225
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
n-Butylbenzene	1.7	0.25	3.0	J	µg/L	1	8/12/2022 5:21:00 PM	R90225
n-Propylbenzene	46	0.18	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
sec-Butylbenzene	7.4	0.14	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Styrene	ND	0.14	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
tert-Butylbenzene	1.7	0.24	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/12/2022 5:21:00 PM	R90225
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/12/2022 5:21:00 PM	R90225
Surr: 1,2-Dichloroethane-d4	108	0	70-130		%Rec	1	8/12/2022 5:21:00 PM	R90225
Surr: 4-Bromofluorobenzene	100	0	70-130		%Rec	1	8/12/2022 5:21:00 PM	R90225
Surr: Dibromofluoromethane	104	0	70-130		%Rec	1	8/12/2022 5:21:00 PM	R90225
Surr: Toluene-d8	108	0	70-130		%Rec	1	8/12/2022 5:21:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-26
Project: Bloomfield Terminal
Collection Date: 8/9/2022 11:40:00 AM
Lab ID: 2208581-008B
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	2.0	0.016	0.064		mg/L	1	8/17/2022 8:25:24 PM	69486
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/17/2022 8:25:24 PM	69486
Surr: DNOP	109	0	42.2-138		%Rec	1	8/17/2022 8:25:24 PM	69486

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-26
Project: Bloomfield Terminal
Collection Date: 8/9/2022 11:40:00 AM
Lab ID: 2208581-008C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.29	0.23	0.50	J	mg/L	5	8/11/2022 2:17:08 AM	A90177
Chloride	210	5.0	10		mg/L	20	8/11/2022 2:29:59 AM	A90177
Nitrogen, Nitrite (As N)	ND	0.057	0.50		mg/L	5	8/11/2022 2:17:08 AM	A90177
Bromide	3.6	0.25	0.50		mg/L	5	8/11/2022 2:17:08 AM	A90177
Nitrogen, Nitrate (As N)	ND	0.10	0.50		mg/L	5	8/11/2022 2:17:08 AM	A90177
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5		mg/L	5	8/11/2022 2:17:08 AM	A90177
Sulfate	ND	1.2	2.5		mg/L	5	8/11/2022 2:17:08 AM	A90177
CARBON DIOXIDE							Analyst: **JTT**	
Total Carbon Dioxide	1200	0	2.5	H	mg CO2/	2.5	8/22/2022 3:31:00 PM	R90490
SM2320B: ALKALINITY							Analyst: **JTT**	
Bicarbonate (As CaCO3)	1283	50.00	50.00		mg/L Ca	2.5	8/22/2022 3:31:38 PM	R90490
Carbonate (As CaCO3)	ND	5.000	5.000		mg/L Ca	2.5	8/22/2022 3:31:38 PM	R90490
Total Alkalinity (as CaCO3)	1283	50.00	50.00		mg/L Ca	2.5	8/22/2022 3:31:38 PM	R90490
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	1870	40.0	40.0	*D	mg/L	1	8/14/2022 7:40:00 PM	69469

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-26
Project: Bloomfield Terminal
Collection Date: 8/9/2022 11:40:00 AM
Lab ID: 2208581-008D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	2.0	0.0056	0.010	*	mg/L	5	8/30/2022 4:53:10 PM	C90720
Cadmium	ND	0.00098	0.0020		mg/L	1	8/30/2022 4:51:12 PM	C90720
Calcium	130	0.57	5.0		mg/L	5	8/30/2022 4:53:10 PM	C90720
Chromium	ND	0.0020	0.0060		mg/L	1	8/30/2022 4:51:12 PM	C90720
Iron	3.2	0.052	0.10	*	mg/L	5	8/30/2022 4:53:10 PM	C90720
Magnesium	40	0.067	1.0		mg/L	1	8/30/2022 4:51:12 PM	C90720
Manganese	2.1	0.0029	0.010	*	mg/L	5	8/30/2022 4:53:10 PM	C90720
Potassium	3.5	0.16	1.0		mg/L	1	8/30/2022 4:51:12 PM	C90720
Silver	0.0024	0.0013	0.0050	J	mg/L	1	8/30/2022 4:51:12 PM	C90720
Sodium	600	3.3	10		mg/L	10	9/14/2022 12:29:30 PM	A91031
Zinc	0.0063	0.0032	0.010	J	mg/L	1	8/30/2022 4:51:12 PM	C90720
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.0023	0.00012	0.0010		mg/L	1	8/18/2022 8:49:24 PM	D90407
Copper	0.00060	0.00037	0.0010	J	mg/L	1	8/18/2022 8:49:24 PM	D90407
Lead	0.000079	0.000057	0.00050	J	mg/L	1	8/18/2022 8:49:24 PM	D90407
Selenium	ND	0.00034	0.0010		mg/L	1	8/18/2022 8:49:24 PM	D90407
Uranium	0.000080	0.000065	0.00050	J	mg/L	1	8/18/2022 8:49:24 PM	D90407
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/30/2022 3:50:16 PM	69835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-26
Project: Bloomfield Terminal
Collection Date: 8/9/2022 11:40:00 AM
Lab ID: 2208581-008E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	2.1	0.0079	0.015	*	mg/L	5	8/22/2022 7:46:27 AM	69645
Cadmium	ND	0.0018	0.0020		mg/L	1	8/22/2022 7:42:12 AM	69645
Chromium	ND	0.0020	0.0060		mg/L	1	8/22/2022 7:42:12 AM	69645
Silver	ND	0.0018	0.0050		mg/L	1	8/22/2022 7:42:12 AM	69645
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.0019	0.00013	0.0010		mg/L	1	8/23/2022 2:00:25 PM	69645
Lead	0.00031	0.000061	0.00050	J	mg/L	1	8/23/2022 2:00:25 PM	69645
Selenium	ND	0.00037	0.0010		mg/L	1	8/23/2022 4:24:08 PM	69645
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/30/2022 3:52:25 PM	69835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-32
Project: Bloomfield Terminal
Collection Date: 8/9/2022 12:55:00 PM
Lab ID: 2208581-009A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.0090	0.050		mg/L	1	8/18/2022 1:38:12 AM	G90345
Surr: BFB	110	0	70-130		%Rec	1	8/18/2022 1:38:12 AM	G90345
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Toluene	ND	0.20	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Naphthalene	1.5	0.50	2.0	J	µg/L	1	8/12/2022 5:44:00 PM	R90225
1-Methylnaphthalene	1.1	0.84	4.0	J	µg/L	1	8/12/2022 5:44:00 PM	R90225
2-Methylnaphthalene	1.2	0.69	4.0	J	µg/L	1	8/12/2022 5:44:00 PM	R90225
Acetone	ND	2.5	10		µg/L	1	8/12/2022 5:44:00 PM	R90225
Bromobenzene	ND	0.28	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Bromoform	ND	0.31	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Bromomethane	ND	0.85	3.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
2-Butanone	ND	2.0	10		µg/L	1	8/12/2022 5:44:00 PM	R90225
Carbon disulfide	ND	0.59	10		µg/L	1	8/12/2022 5:44:00 PM	R90225
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Chloroethane	ND	0.38	2.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Chloroform	ND	0.13	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Chloromethane	ND	0.41	3.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Dibromomethane	ND	0.31	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-32
Project: Bloomfield Terminal
Collection Date: 8/9/2022 12:55:00 PM
Lab ID: 2208581-009A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
2-Hexanone	ND	1.8	10		µg/L	1	8/12/2022 5:44:00 PM	R90225
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/12/2022 5:44:00 PM	R90225
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Styrene	ND	0.14	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/12/2022 5:44:00 PM	R90225
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/12/2022 5:44:00 PM	R90225
Surr: 1,2-Dichloroethane-d4	116	0	70-130		%Rec	1	8/12/2022 5:44:00 PM	R90225
Surr: 4-Bromofluorobenzene	95.8	0	70-130		%Rec	1	8/12/2022 5:44:00 PM	R90225
Surr: Dibromofluoromethane	108	0	70-130		%Rec	1	8/12/2022 5:44:00 PM	R90225
Surr: Toluene-d8	91.8	0	70-130		%Rec	1	8/12/2022 5:44:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-32
Project: Bloomfield Terminal
Collection Date: 8/9/2022 12:55:00 PM
Lab ID: 2208581-009B
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	0.048	0.016	0.064	J	mg/L	1	8/17/2022 8:49:36 PM	69486
Motor Oil Range Organics (MRO)	0.080	0.052	0.080	J	mg/L	1	8/17/2022 8:49:36 PM	69486
Surr: DNOP	102	0	42.2-138		%Rec	1	8/17/2022 8:49:36 PM	69486

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-32
Project: Bloomfield Terminal
Collection Date: 8/9/2022 12:55:00 PM
Lab ID: 2208581-009C
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.37	0.23	0.50	J	mg/L	5	8/11/2022 2:42:50 AM	A90177
Chloride	760	12	25	*	mg/L	50	8/29/2022 11:59:11 AM	R90644
Nitrogen, Nitrite (As N)	ND	0.057	0.50		mg/L	5	8/11/2022 2:42:50 AM	A90177
Bromide	3.9	0.25	0.50		mg/L	5	8/11/2022 2:42:50 AM	A90177
Nitrogen, Nitrate (As N)	2.5	0.10	0.50		mg/L	5	8/11/2022 2:42:50 AM	A90177
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5		mg/L	5	8/11/2022 2:42:50 AM	A90177
Sulfate	1900	12	25	*	mg/L	50	8/29/2022 11:59:11 AM	R90644
CARBON DIOXIDE							Analyst: **CAS**	
Total Carbon Dioxide	140	0	1.0	H	mg CO2/	1	8/18/2022 7:24:15 PM	R90412
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	156.1	20.00	20.00		mg/L Ca	1	8/18/2022 7:24:15 PM	R90412
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/18/2022 7:24:15 PM	R90412
Total Alkalinity (as CaCO3)	156.1	20.00	20.00		mg/L Ca	1	8/18/2022 7:24:15 PM	R90412
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	4170	20.0	20.0	*	mg/L	1	8/14/2022 7:40:00 PM	69469

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-32
Project: Bloomfield Terminal
Collection Date: 8/9/2022 12:55:00 PM
Lab ID: 2208581-009D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: DISSOLVED METALS							Analyst: **JRR**	
Barium	0.015	0.0011	0.0020		mg/L	1	8/30/2022 5:01:41 PM	C90720
Cadmium	ND	0.00098	0.0020		mg/L	1	8/30/2022 5:01:41 PM	C90720
Calcium	390	0.57	5.0		mg/L	5	8/30/2022 5:03:59 PM	C90720
Chromium	ND	0.0020	0.0060		mg/L	1	8/30/2022 5:01:41 PM	C90720
Iron	ND	0.010	0.020		mg/L	1	8/30/2022 5:01:41 PM	C90720
Magnesium	55	0.067	1.0		mg/L	1	8/30/2022 5:01:41 PM	C90720
Manganese	ND	0.00058	0.0020		mg/L	1	8/30/2022 5:01:41 PM	C90720
Potassium	3.9	0.16	1.0		mg/L	1	8/30/2022 5:01:41 PM	C90720
Silver	0.0091	0.0013	0.0050		mg/L	1	8/30/2022 5:01:41 PM	C90720
Sodium	1000	17	50		mg/L	50	9/14/2022 12:31:19 PM	A91031
Zinc	0.0042	0.0032	0.010	J	mg/L	1	8/30/2022 5:01:41 PM	C90720
EPA 200.8: DISSOLVED METALS							Analyst: **bcv**	
Arsenic	0.00089	0.00012	0.0010	J	mg/L	1	8/18/2022 8:52:05 PM	D90407
Copper	0.00053	0.00037	0.0010	J	mg/L	1	8/18/2022 8:52:05 PM	D90407
Lead	ND	0.000057	0.00050		mg/L	1	8/18/2022 8:52:05 PM	D90407
Selenium	0.0029	0.00034	0.0010		mg/L	1	8/22/2022 3:18:11 PM	B90513
Uranium	0.011	0.000065	0.00050		mg/L	1	8/18/2022 8:52:05 PM	D90407
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/30/2022 3:54:34 PM	69835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: MW-32
Project: Bloomfield Terminal
Collection Date: 8/9/2022 12:55:00 PM
Lab ID: 2208581-009E
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **JRR**	
Barium	0.016	0.0016	0.0030		mg/L	1	8/25/2022 2:42:12 PM	A90598
Cadmium	ND	0.0018	0.0020		mg/L	1	8/25/2022 2:42:12 PM	A90598
Chromium	ND	0.0020	0.0060		mg/L	1	8/25/2022 2:42:12 PM	A90598
Silver	0.0093	0.0018	0.0050		mg/L	1	8/25/2022 2:42:12 PM	A90598
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.00085	0.00013	0.0010	J	mg/L	1	8/24/2022 10:44:28 AM	A90533
Lead	0.000099	0.000061	0.00050	J	mg/L	1	8/24/2022 10:44:28 AM	A90533
Selenium	0.0040	0.00037	0.0010		mg/L	1	8/24/2022 10:44:28 AM	A90533
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	ND	0.000091	0.00020		mg/L	1	8/30/2022 3:56:43 PM	69835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208581-010A

Client Sample ID: Upstream
Collection Date: 8/9/2022 1:50:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.018	0.10	D	mg/L	2	8/18/2022 2:01:56 AM	G90345
Surr: BFB	109	0	70-130	D	%Rec	2	8/18/2022 2:01:56 AM	G90345
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Toluene	ND	0.20	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Naphthalene	ND	0.50	2.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Acetone	6.6	2.5	10	J	µg/L	1	8/12/2022 6:08:00 PM	R90225
Bromobenzene	ND	0.28	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Bromoform	ND	0.31	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Bromomethane	ND	0.85	3.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
2-Butanone	ND	2.0	10		µg/L	1	8/12/2022 6:08:00 PM	R90225
Carbon disulfide	ND	0.59	10		µg/L	1	8/12/2022 6:08:00 PM	R90225
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Chloroethane	ND	0.38	2.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Chloroform	ND	0.13	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Chloromethane	ND	0.41	3.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Dibromomethane	ND	0.31	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Estimated value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: Upstream
Project: Bloomfield Terminal
Collection Date: 8/9/2022 1:50:00 PM
Lab ID: 2208581-010A
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
2-Hexanone	ND	1.8	10		µg/L	1	8/12/2022 6:08:00 PM	R90225
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/12/2022 6:08:00 PM	R90225
Methylene Chloride	1.4	0.50	3.0	J	µg/L	1	8/12/2022 6:08:00 PM	R90225
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Styrene	ND	0.14	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/12/2022 6:08:00 PM	R90225
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/12/2022 6:08:00 PM	R90225
Surr: 1,2-Dichloroethane-d4	114	0	70-130		%Rec	1	8/12/2022 6:08:00 PM	R90225
Surr: 4-Bromofluorobenzene	95.7	0	70-130		%Rec	1	8/12/2022 6:08:00 PM	R90225
Surr: Dibromofluoromethane	110	0	70-130		%Rec	1	8/12/2022 6:08:00 PM	R90225
Surr: Toluene-d8	90.3	0	70-130		%Rec	1	8/12/2022 6:08:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208581-010B

Client Sample ID: Upstream
Collection Date: 8/9/2022 1:50:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D MOD: DIESEL RANGE							Analyst: **DGH**	
Diesel Range Organics (DRO)	0.040	0.016	0.064	J	mg/L	1	8/17/2022 9:13:46 PM	69486
Motor Oil Range Organics (MRO)	ND	0.052	0.080		mg/L	1	8/17/2022 9:13:46 PM	69486
Surr: DNOP	73.1	0	42.2-138		%Rec	1	8/17/2022 9:13:46 PM	69486

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Project: Bloomfield Terminal
Lab ID: 2208581-010C

Client Sample ID: Upstream
Collection Date: 8/9/2022 1:50:00 PM
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JTT**	
Fluoride	0.42	0.23	0.50	J	mg/L	5	8/11/2022 3:08:34 AM	A90177
Chloride	4.1	1.2	2.5		mg/L	5	8/11/2022 3:08:34 AM	A90177
Nitrogen, Nitrite (As N)	ND	0.057	0.50		mg/L	5	8/11/2022 3:08:34 AM	A90177
Bromide	ND	0.25	0.50		mg/L	5	8/11/2022 3:08:34 AM	A90177
Nitrogen, Nitrate (As N)	0.16	0.10	0.50	J	mg/L	5	8/11/2022 3:08:34 AM	A90177
Phosphorus, Orthophosphate (As P)	ND	1.2	2.5		mg/L	5	8/11/2022 3:08:34 AM	A90177
Sulfate	130	1.2	2.5		mg/L	5	8/11/2022 3:08:34 AM	A90177
SM2320B: ALKALINITY							Analyst: **CAS**	
Bicarbonate (As CaCO3)	107.6	20.00	20.00		mg/L Ca	1	8/18/2022 7:34:46 PM	R90412
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L Ca	1	8/18/2022 7:34:46 PM	R90412
Total Alkalinity (as CaCO3)	107.6	20.00	20.00		mg/L Ca	1	8/18/2022 7:34:46 PM	R90412
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**	
Total Dissolved Solids	440	200	200	D	mg/L	1	8/14/2022 7:40:00 PM	69469

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: Upstream
Project: Bloomfield Terminal
Collection Date: 8/9/2022 1:50:00 PM
Lab ID: 2208581-010D
Matrix: Groundwater

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **VP**	
Barium	3.3	0.0079	0.015	*	mg/L	5	8/22/2022 7:53:01 AM	69645
Cadmium	ND	0.0018	0.0020		mg/L	1	8/22/2022 7:51:34 AM	69645
Chromium	0.19	0.0020	0.0060	*	mg/L	1	8/22/2022 7:51:34 AM	69645
Silver	ND	0.0018	0.0050		mg/L	1	8/22/2022 7:51:34 AM	69645
EPA 200.8: METALS							Analyst: **bcv**	
Arsenic	0.014	0.00013	0.0010	*	mg/L	1	8/23/2022 2:02:51 PM	69645
Lead	0.15	0.00061	0.0050	*	mg/L	10	8/25/2022 3:40:16 PM	69645
Selenium	0.026	0.00037	0.0010		mg/L	1	8/23/2022 4:26:35 PM	69645
EPA METHOD 245.1: MERCURY							Analyst: **VP**	
Mercury	0.00039	0.000091	0.00020		mg/L	1	8/30/2022 4:03:42 PM	69835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: Trip Blank
Project: Bloomfield Terminal
Collection Date:
Lab ID: 2208581-011A
Matrix: Trip Blank

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Benzene	ND	0.23	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Toluene	ND	0.20	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Ethylbenzene	ND	0.21	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Methyl tert-butyl ether (MTBE)	ND	0.39	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,2,4-Trimethylbenzene	ND	0.12	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,3,5-Trimethylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,2-Dichloroethane (EDC)	ND	0.25	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,2-Dibromoethane (EDB)	ND	0.30	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Naphthalene	ND	0.50	2.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1-Methylnaphthalene	ND	0.84	4.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
2-Methylnaphthalene	ND	0.69	4.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Acetone	8.1	2.5	10	J	µg/L	1	8/12/2022 6:31:00 PM	R90225
Bromobenzene	ND	0.28	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Bromodichloromethane	ND	0.20	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Bromoform	ND	0.31	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Bromomethane	ND	0.85	3.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
2-Butanone	ND	2.0	10		µg/L	1	8/12/2022 6:31:00 PM	R90225
Carbon disulfide	ND	0.59	10		µg/L	1	8/12/2022 6:31:00 PM	R90225
Carbon Tetrachloride	ND	0.18	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Chlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Chloroethane	ND	0.38	2.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Chloroform	ND	0.13	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Chloromethane	ND	0.41	3.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
2-Chlorotoluene	ND	0.13	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
4-Chlorotoluene	ND	0.34	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
cis-1,2-DCE	ND	0.39	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
cis-1,3-Dichloropropene	ND	0.36	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,2-Dibromo-3-chloropropane	ND	0.59	2.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Dibromochloromethane	ND	0.28	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Dibromomethane	ND	0.31	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,2-Dichlorobenzene	ND	0.15	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,3-Dichlorobenzene	ND	0.16	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,4-Dichlorobenzene	ND	0.21	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Dichlorodifluoromethane	ND	0.40	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,1-Dichloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,1-Dichloroethene	ND	0.20	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,2-Dichloropropane	ND	0.20	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,3-Dichloropropane	ND	0.18	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
2,2-Dichloropropane	ND	0.26	2.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,1-Dichloropropene	ND	0.18	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order: **2208581**
Date Reported: **9/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: AECOM
Client Sample ID: Trip Blank
Project: Bloomfield Terminal
Collection Date:
Lab ID: 2208581-011A
Matrix: Trip Blank

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **CCM**	
Hexachlorobutadiene	ND	0.56	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
2-Hexanone	ND	1.8	10		µg/L	1	8/12/2022 6:31:00 PM	R90225
Isopropylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
4-Isopropyltoluene	ND	0.20	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
4-Methyl-2-pentanone	ND	0.88	10		µg/L	1	8/12/2022 6:31:00 PM	R90225
Methylene Chloride	ND	0.50	3.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
n-Butylbenzene	ND	0.25	3.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
n-Propylbenzene	ND	0.18	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
sec-Butylbenzene	ND	0.14	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Styrene	ND	0.14	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
tert-Butylbenzene	ND	0.24	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,1,1,2-Tetrachloroethane	ND	0.27	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,1,2,2-Tetrachloroethane	ND	0.27	2.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Tetrachloroethene (PCE)	ND	0.36	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
trans-1,2-DCE	ND	0.19	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
trans-1,3-Dichloropropene	ND	0.34	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,2,3-Trichlorobenzene	ND	0.25	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,2,4-Trichlorobenzene	ND	0.24	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,1,1-Trichloroethane	ND	0.30	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,1,2-Trichloroethane	ND	0.20	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Trichloroethene (TCE)	ND	0.20	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Trichlorofluoromethane	ND	0.16	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
1,2,3-Trichloropropane	ND	0.44	2.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Vinyl chloride	ND	0.32	1.0		µg/L	1	8/12/2022 6:31:00 PM	R90225
Xylenes, Total	ND	0.37	1.5		µg/L	1	8/12/2022 6:31:00 PM	R90225
Surr: 1,2-Dichloroethane-d4	116	0	70-130		%Rec	1	8/12/2022 6:31:00 PM	R90225
Surr: 4-Bromofluorobenzene	95.1	0	70-130		%Rec	1	8/12/2022 6:31:00 PM	R90225
Surr: Dibromofluoromethane	110	0	70-130		%Rec	1	8/12/2022 6:31:00 PM	R90225
Surr: Toluene-d8	90.4	0	70-130		%Rec	1	8/12/2022 6:31:00 PM	R90225

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-69645**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Metals**
Client ID: **PBW**	Batch ID: **69645**	RunNo: **90465**
Prep Date: **8/19/2022**	Analysis Date: **8/22/2022**	SeqNo: **3230870** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0030								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Silver	ND	0.0050								

Sample ID: **LCSLL-69645**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Metals**
Client ID: **BatchQC**	Batch ID: **69645**	RunNo: **90465**
Prep Date: **8/19/2022**	Analysis Date: **8/22/2022**	SeqNo: **3230871** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0023	0.0030	0.002000	0	114	50	150			J
Cadmium	0.0025	0.0020	0.002000	0	124	50	150			
Chromium	0.0063	0.0060	0.006000	0	105	50	150			
Silver	0.0054	0.0050	0.005000	0	108	50	150			

Sample ID: **LCS-69645**	SampType: **LCS**	TestCode: **EPA Method 200.7: Metals**
Client ID: **LCSW**	Batch ID: **69645**	RunNo: **90465**
Prep Date: **8/19/2022**	Analysis Date: **8/22/2022**	SeqNo: **3230872** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0030	0.5000	0	102	85	115			
Cadmium	0.49	0.0020	0.5000	0	97.6	85	115			
Chromium	0.48	0.0060	0.5000	0	96.7	85	115			
Silver	0.093	0.0050	0.1000	0	93.3	85	115			

Sample ID: **2208581-008EMS**	SampType: **MS**	TestCode: **EPA Method 200.7: Metals**
Client ID: **MW-26**	Batch ID: **69645**	RunNo: **90465**
Prep Date: **8/19/2022**	Analysis Date: **8/22/2022**	SeqNo: **3230937** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.47	0.0020	0.5000	0	94.5	70	130			
Chromium	0.48	0.0060	0.5000	0	95.9	70	130			
Silver	0.093	0.0050	0.1000	0	93.1	70	130			

Sample ID: **2208581-008EMSD**	SampType: **MSD**	TestCode: **EPA Method 200.7: Metals**
Client ID: **MW-26**	Batch ID: **69645**	RunNo: **90465**
Prep Date: **8/19/2022**	Analysis Date: **8/22/2022**	SeqNo: **3230938** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.48	0.0020	0.5000	0	95.5	70	130	1.03	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **2208581-008EMSD** SampType: **MSD** TestCode: **EPA Method 200.7: Metals**
Client ID: **MW-26** Batch ID: **69645** RunNo: **90465**
Prep Date: **8/19/2022** Analysis Date: **8/22/2022** SeqNo: **3230938** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.48	0.0060	0.5000	0	96.2	70	130	0.374	20	
Silver	0.094	0.0050	0.1000	0	94.2	70	130	1.17	20	

Sample ID: **2208581-008EMS** SampType: **MS** TestCode: **EPA Method 200.7: Metals**
Client ID: **MW-26** Batch ID: **69645** RunNo: **90465**
Prep Date: **8/19/2022** Analysis Date: **8/22/2022** SeqNo: **3230940** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	2.6	0.015	0.5000	2.084	102	70	130			

Sample ID: **2208581-008EMSD** SampType: **MSD** TestCode: **EPA Method 200.7: Metals**
Client ID: **MW-26** Batch ID: **69645** RunNo: **90465**
Prep Date: **8/19/2022** Analysis Date: **8/22/2022** SeqNo: **3230941** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	2.6	0.015	0.5000	2.084	98.4	70	130	0.684	20	

Sample ID: **MB-A** SampType: **MBLK** TestCode: **EPA Method 200.7: Metals**
Client ID: **PBW** Batch ID: **A90598** RunNo: **90598**
Prep Date: Analysis Date: **8/25/2022** SeqNo: **3236760** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0030								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Silver	ND	0.0050								

Sample ID: **LLLCS-A** SampType: **LCSLL** TestCode: **EPA Method 200.7: Metals**
Client ID: **BatchQC** Batch ID: **A90598** RunNo: **90598**
Prep Date: Analysis Date: **8/25/2022** SeqNo: **3236761** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0015	0.0030	0.002000	0	73.1	50	150			J
Cadmium	0.0028	0.0020	0.002000	0	138	50	150			
Chromium	0.0061	0.0060	0.006000	0	101	50	150			
Silver	0.0046	0.0050	0.005000	0	92.2	50	150			J

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **LCS-A**	SampType: **LCS**	TestCode: **EPA Method 200.7: Metals**
Client ID: **LCSW**	Batch ID: **A90598**	RunNo: **90598**
Prep Date:	Analysis Date: **8/25/2022**	SeqNo: **3236762** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.48	0.0030	0.5000	0	96.9	85	115			
Cadmium	0.49	0.0020	0.5000	0	98.6	85	115			
Chromium	0.49	0.0060	0.5000	0	97.6	85	115			
Silver	0.10	0.0050	0.1000	0	101	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-A**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A90598**	RunNo: **90598**
Prep Date:	Analysis Date: **8/25/2022**	SeqNo: **3236757** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Silver	ND	0.0050								

Sample ID: **LLLCS-A**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **A90598**	RunNo: **90598**
Prep Date:	Analysis Date: **8/25/2022**	SeqNo: **3236758** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0015	0.0020	0.002000	0	73.1	50	150			J
Cadmium	0.0028	0.0020	0.002000	0	138	50	150			
Chromium	0.0061	0.0060	0.006000	0	101	50	150			
Silver	0.0046	0.0050	0.005000	0	92.2	50	150			J

Sample ID: **LCS-A**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A90598**	RunNo: **90598**
Prep Date:	Analysis Date: **8/25/2022**	SeqNo: **3236759** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.48	0.0020	0.5000	0	96.9	85	115			
Cadmium	0.49	0.0020	0.5000	0	98.6	85	115			
Chromium	0.49	0.0060	0.5000	0	97.6	85	115			
Silver	0.10	0.0050	0.1000	0	101	85	115			

Sample ID: **MB-C**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **C90720**	RunNo: **90720**
Prep Date:	Analysis Date: **8/30/2022**	SeqNo: **3242331** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-C** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**

Client ID: **PBW** Batch ID: **C90720** RunNo: **90720**

Prep Date: Analysis Date: **8/30/2022** SeqNo: **3242331** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Zinc	ND	0.010								

Sample ID: **LCSLL-C** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**

Client ID: **BatchQC** Batch ID: **C90720** RunNo: **90720**

Prep Date: Analysis Date: **8/30/2022** SeqNo: **3242332** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0020	0.0020	0.002000	0	99.0	50	150			J
Cadmium	0.0021	0.0020	0.002000	0	107	50	150			
Calcium	0.52	1.0	0.5000	0	104	50	150			J
Chromium	0.0069	0.0060	0.006000	0	115	50	150			
Iron	0.021	0.020	0.02000	0	105	50	150			
Magnesium	0.53	1.0	0.5000	0	105	50	150			J
Manganese	0.0021	0.0020	0.002000	0	103	50	150			
Potassium	0.51	1.0	0.5000	0	102	50	150			J
Silver	0.0048	0.0050	0.005000	0	95.1	50	150			J
Sodium	0.54	1.0	0.5000	0	108	50	150			J
Zinc	0.011	0.010	0.01000	0	107	50	150			

Sample ID: **LCS-C** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**

Client ID: **LCSW** Batch ID: **C90720** RunNo: **90720**

Prep Date: Analysis Date: **8/30/2022** SeqNo: **3242333** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0020	0.5000	0	100	85	115			
Cadmium	0.51	0.0020	0.5000	0	103	85	115			
Calcium	52	1.0	50.00	0	104	85	115			
Chromium	0.50	0.0060	0.5000	0	101	85	115			
Iron	0.51	0.020	0.5000	0	101	85	115			
Magnesium	52	1.0	50.00	0	103	85	115			
Manganese	0.51	0.0020	0.5000	0	101	85	115			
Potassium	51	1.0	50.00	0	102	85	115			
Silver	0.10	0.0050	0.1000	0	103	85	115			
Sodium	51	1.0	50.00	0	103	85	115			
Zinc	0.50	0.010	0.5000	0	101	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **2208581-001DMS**	SampType: **MS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **MW-35**	Batch ID: **C90720**	RunNo: **90720**
Prep Date:	Analysis Date: **8/30/2022**	SeqNo: **3242434** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.66	0.0020	0.5000	0.1789	96.0	70	130			
Cadmium	0.51	0.0020	0.5000	0	102	70	130			
Chromium	0.49	0.0060	0.5000	0	97.5	70	130			
Magnesium	77	1.0	50.00	26.18	102	70	130			
Potassium	53	1.0	50.00	2.857	101	70	130			
Silver	0.094	0.0050	0.1000	0.003035	90.7	70	130			
Zinc	0.49	0.010	0.5000	0.005674	97.5	70	130			

Sample ID: **2208581-001DMSD**	SampType: **MSD**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **MW-35**	Batch ID: **C90720**	RunNo: **90720**
Prep Date:	Analysis Date: **8/30/2022**	SeqNo: **3242435** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.65	0.0020	0.5000	0.1789	95.0	70	130	0.743	20	
Cadmium	0.50	0.0020	0.5000	0	100	70	130	2.02	20	
Chromium	0.48	0.0060	0.5000	0	96.2	70	130	1.32	20	
Magnesium	74	1.0	50.00	26.18	96.3	70	130	3.45	20	
Potassium	52	1.0	50.00	2.857	98.5	70	130	2.45	20	
Silver	0.092	0.0050	0.1000	0.003035	88.8	70	130	2.07	20	
Zinc	0.49	0.010	0.5000	0.005674	97.1	70	130	0.353	20	

Sample ID: **2208581-001DMS**	SampType: **MS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **MW-35**	Batch ID: **C90720**	RunNo: **90720**
Prep Date:	Analysis Date: **8/30/2022**	SeqNo: **3242437** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	410	5.0	250.0	145.1	104	70	130			
Iron	3.7	0.10	2.500	1.090	104	70	130			

Sample ID: **2208581-001DMSD**	SampType: **MSD**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **MW-35**	Batch ID: **C90720**	RunNo: **90720**
Prep Date:	Analysis Date: **8/30/2022**	SeqNo: **3242438** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	420	5.0	250.0	145.1	112	70	130	4.53	20	
Iron	3.8	0.10	2.500	1.090	107	70	130	1.74	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-A** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW** Batch ID: **A90845** RunNo: **90845**
Prep Date: Analysis Date: **9/6/2022** SeqNo: **3247434** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Manganese	ND	0.0020								

Sample ID: **LCSLL-A** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **A90845** RunNo: **90845**
Prep Date: Analysis Date: **9/6/2022** SeqNo: **3247435** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.55	1.0	0.5000	0	110	50	150			J
Manganese	0.0021	0.0020	0.002000	0	103	50	150			

Sample ID: **LCS-A** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **A90845** RunNo: **90845**
Prep Date: Analysis Date: **9/6/2022** SeqNo: **3247436** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	53	1.0	50.00	0	106	85	115			
Manganese	0.50	0.0020	0.5000	0	99.2	85	115			

Sample ID: **LLLCS-A** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **A91031** RunNo: **91031**
Prep Date: Analysis Date: **9/14/2022** SeqNo: **3255645** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	0.72	1.0	0.5000	0	144	50	150			J

Sample ID: **LCS-A** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **A91031** RunNo: **91031**
Prep Date: Analysis Date: **9/14/2022** SeqNo: **3255646** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	54	1.0	50.00	0	107	85	115			

Sample ID: **MB-A** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW** Batch ID: **A91031** RunNo: **91031**
Prep Date: Analysis Date: **9/14/2022** SeqNo: **3255647** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-A**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A81047**	RunNo: **91047**
Prep Date:	Analysis Date: **9/15/2022**	SeqNo: **3256300** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	1.0								

Sample ID: **LCS-A**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A81047**	RunNo: **91047**
Prep Date:	Analysis Date: **9/15/2022**	SeqNo: **3256301** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	54	1.0	50.00	0	107	85	115			

Sample ID: **LCSD-A**	SampType: **LCSD**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSS02**	Batch ID: **A81047**	RunNo: **91047**
Prep Date:	Analysis Date: **9/15/2022**	SeqNo: **3256302** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	54	1.0	50.00	0	108	85	115	0.889	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-69645**	SampType: **MBLK**	TestCode: **EPA 200.8: Metals**
Client ID: **PBW**	Batch ID: **69645**	RunNo: **90529**
Prep Date: **8/19/2022**	Analysis Date: **8/23/2022**	SeqNo: **3233194** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								

Sample ID: **MSLCSLL-69645**	SampType: **LCSLL**	TestCode: **EPA 200.8: Metals**
Client ID: **BatchQC**	Batch ID: **69645**	RunNo: **90529**
Prep Date: **8/19/2022**	Analysis Date: **8/23/2022**	SeqNo: **3233195** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0011	0.0010	0.001000	0	108	50	150			
Lead	0.00051	0.00050	0.0005000	0	101	50	150			
Selenium	0.00076	0.0010	0.001000	0	75.8	50	150			J

Sample ID: **MSLCS-69645**	SampType: **LCS**	TestCode: **EPA 200.8: Metals**
Client ID: **LCSW**	Batch ID: **69645**	RunNo: **90529**
Prep Date: **8/19/2022**	Analysis Date: **8/23/2022**	SeqNo: **3233196** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	102	85	115			
Lead	0.012	0.00050	0.01250	0	99.9	85	115			
Selenium	0.022	0.0010	0.02500	0	89.3	85	115			

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA 200.8: Metals**
Client ID: **PBW**	Batch ID: **A90533**	RunNo: **90533**
Prep Date:	Analysis Date: **8/24/2022**	SeqNo: **3234174** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								

Sample ID: **LCLL**	SampType: **LCSLL**	TestCode: **EPA 200.8: Metals**
Client ID: **BatchQC**	Batch ID: **A90533**	RunNo: **90533**
Prep Date:	Analysis Date: **8/24/2022**	SeqNo: **3234175** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0012	0.0010	0.001000	0	119	50	150			
Lead	0.00061	0.00050	0.0005000	0	123	50	150			
Selenium	0.0012	0.0010	0.001000	0	122	50	150			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA 200.8: Metals**

Client ID: **LCSW** Batch ID: **A90533** RunNo: **90533**

Prep Date: Analysis Date: **8/24/2022** SeqNo: **3234176** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.026	0.0010	0.02500	0	102	85	115			
Lead	0.013	0.00050	0.01250	0	102	85	115			
Selenium	0.025	0.0010	0.02500	0	102	85	115			

Sample ID: **2208581-007EMSLL** SampType: **MS** TestCode: **EPA 200.8: Metals**

Client ID: **MW-27-FB** Batch ID: **A90533** RunNo: **90533**

Prep Date: Analysis Date: **8/24/2022** SeqNo: **3234200** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.028	0.0010	0.02500	0	110	70	130			
Lead	0.013	0.00050	0.01250	0	106	70	130			
Selenium	0.028	0.0010	0.02500	0	112	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **PBW** Batch ID: **D90407** RunNo: **90407**
Prep Date: Analysis Date: **8/18/2022** SeqNo: **3226138** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Copper	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Uranium	ND	0.00050								

Sample ID: **LCSLL** SampType: **LCSLL** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **D90407** RunNo: **90407**
Prep Date: Analysis Date: **8/18/2022** SeqNo: **3226139** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0011	0.0010	0.001000	0	108	50	150			
Copper	0.0011	0.0010	0.001000	0	109	50	150			
Lead	0.00055	0.00050	0.0005000	0	110	50	150			
Selenium	0.00096	0.0010	0.001000	0	95.6	50	150			J
Uranium	0.00051	0.00050	0.0005000	0	101	50	150			

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **LCSW** Batch ID: **D90407** RunNo: **90407**
Prep Date: Analysis Date: **8/18/2022** SeqNo: **3226140** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.026	0.0010	0.02500	0	104	85	115			
Copper	0.026	0.0010	0.02500	0	104	85	115			
Lead	0.013	0.00050	0.01250	0	103	85	115			
Selenium	0.025	0.0010	0.02500	0	99.8	85	115			
Uranium	0.012	0.00050	0.01250	0	99.6	85	115			

Sample ID: **2208581-004DMSLL** SampType: **MS** TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **MW-34-FD** Batch ID: **D90407** RunNo: **90407**
Prep Date: Analysis Date: **8/18/2022** SeqNo: **3226208** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.031	0.0010	0.02500	0.001789	117	70	130			
Lead	0.013	0.00050	0.01250	0.00006914	104	70	130			
Uranium	0.015	0.00050	0.01250	0.001763	105	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **2208581-004DMSDL**	SampType: **MSD**	TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **MW-34-FD**	Batch ID: **D90407**	RunNo: **90407**
Prep Date:	Analysis Date: **8/18/2022**	SeqNo: **3226209** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.030	0.0010	0.02500	0.001789	115	70	130	2.05	20	
Lead	0.013	0.00050	0.01250	0.00006914	101	70	130	2.29	20	
Uranium	0.015	0.00050	0.01250	0.001763	104	70	130	0.763	20	

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **PBW**	Batch ID: **B90513**	RunNo: **90513**
Prep Date:	Analysis Date: **8/22/2022**	SeqNo: **3232215** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	0.0010								
Uranium	ND	0.00050								

Sample ID: **LCSLL**	SampType: **LCSLL**	TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **B90513**	RunNo: **90513**
Prep Date:	Analysis Date: **8/22/2022**	SeqNo: **3232216** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.00085	0.0010	0.001000	0	84.6	50	150			J
Uranium	0.00051	0.00050	0.0005000	0	101	50	150			

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **B90513**	RunNo: **90513**
Prep Date:	Analysis Date: **8/22/2022**	SeqNo: **3232217** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.025	0.0010	0.02500	0	101	85	115			
Uranium	0.012	0.00050	0.01250	0	95.9	85	115			

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **PBW**	Batch ID: **B90533**	RunNo: **90533**
Prep Date:	Analysis Date: **8/24/2022**	SeqNo: **3234177** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	ND	0.0010								

Sample ID: **LCSLL**	SampType: **LCSLL**	TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **B90533**	RunNo: **90533**
Prep Date:	Analysis Date: **8/24/2022**	SeqNo: **3234178** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **LCSLL**	SampType: **LCSLL**	TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **B90533**	RunNo: **90533**
Prep Date:	Analysis Date: **8/24/2022**	SeqNo: **3234178** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	0.0010	0.0010	0.001000	0	101	50	150			

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **B90533**	RunNo: **90533**
Prep Date:	Analysis Date: **8/24/2022**	SeqNo: **3234179** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	0.025	0.0010	0.02500	0	102	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-69835** SampType: **MBLK** TestCode: **EPA Method 245.1: Mercury**
Client ID: **PBW** Batch ID: **69835** RunNo: **90666**
Prep Date: **8/29/2022** Analysis Date: **8/30/2022** SeqNo: **3240065** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID: **LCSLL-69835** SampType: **LCSLL** TestCode: **EPA Method 245.1: Mercury**
Client ID: **BatchQC** Batch ID: **69835** RunNo: **90666**
Prep Date: **8/29/2022** Analysis Date: **8/30/2022** SeqNo: **3240066** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00015	0.00020	0.0001500	0	101	50	150			J

Sample ID: **LCS-69835** SampType: **LCS** TestCode: **EPA Method 245.1: Mercury**
Client ID: **LCSW** Batch ID: **69835** RunNo: **90666**
Prep Date: **8/29/2022** Analysis Date: **8/30/2022** SeqNo: **3240071** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0044	0.00020	0.005000	0	87.7	85	115			

Sample ID: **2208581-007EMS** SampType: **MS** TestCode: **EPA Method 245.1: Mercury**
Client ID: **MW-27-FB** Batch ID: **69835** RunNo: **90666**
Prep Date: **8/29/2022** Analysis Date: **8/30/2022** SeqNo: **3240124** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0046	0.00020	0.005000	0	91.4	75	125			

Sample ID: **2208581-007EMSD** SampType: **MSD** TestCode: **EPA Method 245.1: Mercury**
Client ID: **MW-27-FB** Batch ID: **69835** RunNo: **90666**
Prep Date: **8/29/2022** Analysis Date: **8/30/2022** SeqNo: **3240125** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0044	0.00020	0.005000	0	88.9	75	125	2.78	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **A90177**	RunNo: **90177**
Prep Date:	Analysis Date: **8/10/2022**	SeqNo: **3215689** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **A90177**	RunNo: **90177**
Prep Date:	Analysis Date: **8/10/2022**	SeqNo: **3215690** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.52	0.10	0.5000	0	103	90	110			
Chloride	4.6	0.50	5.000	0	92.8	90	110			
Nitrogen, Nitrite (As N)	0.96	0.10	1.000	0	96.4	90	110			
Bromide	2.4	0.10	2.500	0	97.6	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			
Phosphorus, Orthophosphate (As P)	4.6	0.50	5.000	0	92.3	90	110			
Sulfate	10	0.50	10.00	0	99.6	90	110			

Sample ID: **2208581-007CMS**	SampType: **ms**	TestCode: **EPA Method 300.0: Anions**
Client ID: **MW-27-FB**	Batch ID: **A90177**	RunNo: **90177**
Prep Date:	Analysis Date: **8/11/2022**	SeqNo: **3215704** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.5	0.50	2.500	0	99.6	79.7	110			
Chloride	22	2.5	25.00	0	89.8	86.3	114			
Nitrogen, Nitrite (As N)	4.7	0.50	5.000	0	93.4	83.4	105			
Bromide	12	0.50	12.50	0	94.8	91.2	106			
Nitrogen, Nitrate (As N)	12	0.50	12.50	0	97.6	93.5	110			
Phosphorus, Orthophosphate (As P)	22	2.5	25.00	0	89.4	80.1	109			
Sulfate	48	2.5	50.00	0	96.6	90.5	112			

Sample ID: **2208581-007CMSD**	SampType: **msd**	TestCode: **EPA Method 300.0: Anions**
Client ID: **MW-27-FB**	Batch ID: **A90177**	RunNo: **90177**
Prep Date:	Analysis Date: **8/11/2022**	SeqNo: **3215705** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.5	0.50	2.500	0	101	79.7	110	1.69	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **2208581-007CMSD**	SampType: **msd**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **MW-27-FB**	Batch ID: **A90177**	RunNo: **90177**							
Prep Date:	Analysis Date: **8/11/2022**	SeqNo: **3215705**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	23	2.5	25.00	0	90.8	86.3	114	1.12	20	
Nitrogen, Nitrite (As N)	4.7	0.50	5.000	0	94.3	83.4	105	1.05	20	
Bromide	12	0.50	12.50	0	95.7	91.2	106	0.882	20	
Nitrogen, Nitrate (As N)	12	0.50	12.50	0	98.8	93.5	110	1.25	20	
Phosphorus, Orthophosphate (As P)	23	2.5	25.00	0	90.3	80.1	109	0.998	20	
Sulfate	49	2.5	50.00	0	97.6	90.5	112	1.04	20	

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R90644**	RunNo: **90644**							
Prep Date:	Analysis Date: **8/29/2022**	SeqNo: **3239252**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R90644**	RunNo: **90644**							
Prep Date:	Analysis Date: **8/29/2022**	SeqNo: **3239253**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.4	90	110			
Sulfate	9.6	0.50	10.00	0	95.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-69486**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Diesel Range**
Client ID: **PBW**	Batch ID: **69486**	RunNo: **90347**
Prep Date: **8/15/2022**	Analysis Date: **8/17/2022**	SeqNo: **3226730** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.036	0.064								J
Motor Oil Range Organics (MRO)	ND	0.080								
Surr: DNOP	0.037		0.03750		99.4	42.2	138			

Sample ID: **LCS-69486**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Diesel Range**
Client ID: **LCSW**	Batch ID: **69486**	RunNo: **90347**
Prep Date: **8/15/2022**	Analysis Date: **8/17/2022**	SeqNo: **3226731** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.12	0.064	0.1875	0	62.2	31.7	75.4			
Surr: DNOP	0.021		0.01875		109	42.2	138			

Sample ID: **LCSD-69486**	SampType: **LCSD**	TestCode: **EPA Method 8015D Mod: Diesel Range**
Client ID: **LCSS02**	Batch ID: **69486**	RunNo: **90347**
Prep Date: **8/15/2022**	Analysis Date: **8/17/2022**	SeqNo: **3226732** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.14	0.064	0.1875	0	76.0	31.7	75.4	19.9	20	S
Surr: DNOP	0.018		0.01875		93.6	42.2	138	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **G90345**	RunNo: **90345**
Prep Date:	Analysis Date: **8/17/2022**	SeqNo: **3223593** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	22		20.00		109	70	130			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **G90345**	RunNo: **90345**
Prep Date:	Analysis Date: **8/17/2022**	SeqNo: **3223594** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.54	0.050	0.5000	0	109	80	120			
Surr: BFB	43		20.00		213	70	130			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**

Client ID: **LCSW** Batch ID: **R90225** RunNo: **90225**

Prep Date: Analysis Date: **8/12/2022** SeqNo: **3217984** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	108	70	130			
Toluene	19	1.0	20.00	0	96.7	70	130			
Chlorobenzene	19	1.0	20.00	0	96.9	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	94.1	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		111	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	11		10.00		110	70	130			
Surr: Toluene-d8	9.2		10.00		91.9	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**

Client ID: **PBW** Batch ID: **R90225** RunNo: **90225**

Prep Date: Analysis Date: **8/12/2022** SeqNo: **3218442** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R90225**	RunNo: **90225**
Prep Date:	Analysis Date: **8/12/2022**	SeqNo: **3218442** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R90225**	RunNo: **90225**
Prep Date:	Analysis Date: **8/12/2022**	SeqNo: **3218442** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		115	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.1	70	130			
Surr: Dibromofluoromethane	11		10.00		111	70	130			
Surr: Toluene-d8	9.1		10.00		90.9	70	130			

Sample ID: **2208581-001ams**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-35**	Batch ID: **R90225**	RunNo: **90225**
Prep Date:	Analysis Date: **8/12/2022**	SeqNo: **3218444** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	19	1.0	20.00	0	95.8	70	130			
Chlorobenzene	19	1.0	20.00	0	95.8	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	96.1	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		112	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.5	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	9.3		10.00		93.5	70	130			

Sample ID: **2208581-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-35**	Batch ID: **R90225**	RunNo: **90225**
Prep Date:	Analysis Date: **8/12/2022**	SeqNo: **3218445** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130	4.17	20	
Toluene	19	1.0	20.00	0	92.8	70	130	3.16	20	
Chlorobenzene	19	1.0	20.00	0	94.4	70	130	1.50	20	
1,1-Dichloroethene	18	1.0	20.00	0	88.6	70	130	8.16	20	
Trichloroethene (TCE)	19	1.0	20.00	0	97.4	70	130	3.46	20	
Surr: 1,2-Dichloroethane-d4	11		10.00		110	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.9		10.00		99.4	70	130	0	0	
Surr: Dibromofluoromethane	11		10.00		105	70	130	0	0	
Surr: Toluene-d8	9.3		10.00		93.3	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **mb-69456**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBW**	Batch ID: **69456**	RunNo: **90411**
Prep Date: **8/12/2022**	Analysis Date: **8/18/2022**	SeqNo: **3225685** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Azobenzene	ND	10								
Benz(a)anthracene	ND	5.0								
Benzo(a)pyrene	ND	10								
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	5.0								
Benzo(k)fluoranthene	ND	10								
Benzoic acid	ND	20								
Benzyl alcohol	ND	5.0								
Bis(2-chloroethoxy)methane	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ether	ND	5.0								
Bis(2-ethylhexyl)phthalate	ND	10								
4-Bromophenyl phenyl ether	ND	10								
Butyl benzyl phthalate	ND	10								
Carbazole	ND	10								
4-Chloro-3-methylphenol	ND	5.0								
4-Chloroaniline	ND	5.0								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	5.0								
4-Chlorophenyl phenyl ether	ND	10								
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10								
Di-n-octyl phthalate	ND	20								
Dibenz(a,h)anthracene	ND	10								
Dibenzofuran	ND	10								
1,2-Dichlorobenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
3,3´-Dichlorobenzidine	ND	10								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
2,4-Dichlorophenol	ND	5.0								
2,4-Dimethylphenol	ND	10								
4,6-Dinitro-2-methylphenol	ND	10								
2,4-Dinitrophenol	ND	20								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **mb-69456**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBW**	Batch ID: **69456**	RunNo: **90411**
Prep Date: **8/12/2022**	Analysis Date: **8/18/2022**	SeqNo: **3225685** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	ND	5.0								
2,6-Dinitrotoluene	ND	10								
Fluoranthene	ND	10								
Fluorene	ND	10								
Hexachlorobenzene	ND	20								
Hexachlorobutadiene	ND	20								
Hexachlorocyclopentadiene	ND	20								
Hexachloroethane	ND	20								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	5.0								
1-Methylnaphthalene	ND	5.0								
2-Methylnaphthalene	ND	5.0								
2-Methylphenol	ND	10								
3+4-Methylphenol	ND	10								
N-Nitrosodi-n-propylamine	ND	5.0								
N-Nitrosodimethylamine	ND	5.0								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	5.0								
2-Nitroaniline	ND	10								
3-Nitroaniline	ND	10								
4-Nitroaniline	ND	5.0								
Nitrobenzene	ND	5.0								
2-Nitrophenol	ND	10								
4-Nitrophenol	ND	10								
Pentachlorophenol	ND	40								
Phenanthrene	ND	10								
Phenol	ND	20								
Pyrene	ND	10								
Pyridine	ND	40								
1,2,4-Trichlorobenzene	ND	5.0								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
Surr: 2-Fluorophenol	99		200.0		49.4	15	84.5			
Surr: Phenol-d5	76		200.0		37.8	15	67			
Surr: 2,4,6-Tribromophenol	110		200.0		56.1	15	108			
Surr: Nitrobenzene-d5	61		100.0		61.1	16.8	112			
Surr: 2-Fluorobiphenyl	59		100.0		59.3	15	101			
Surr: 4-Terphenyl-d14	76		100.0		76.0	34.4	134			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **lcs-69456**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSW**	Batch ID: **69456**	RunNo: **90411**
Prep Date: **8/12/2022**	Analysis Date: **8/18/2022**	SeqNo: **3225686** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	77	10	100.0	0	76.8	21.3	104			
4-Chloro-3-methylphenol	150	5.0	200.0	0	77.2	31.8	104			
2-Chlorophenol	160	5.0	200.0	0	78.2	26.9	105			
1,4-Dichlorobenzene	68	5.0	100.0	0	68.3	15	89.8			
2,4-Dinitrotoluene	62	5.0	100.0	0	62.2	22.9	92.4			
N-Nitrosodi-n-propylamine	75	5.0	100.0	0	75.1	33.2	98.8			
4-Nitrophenol	88	10	200.0	0	44.1	27.4	64.2			
Pentachlorophenol	110	40	200.0	0	54.8	37.6	93			
Phenol	93	20	200.0	0	46.5	17	61.1			
Pyrene	87	10	100.0	0	87.3	61	123			
1,2,4-Trichlorobenzene	65	5.0	100.0	0	64.8	15	91.7			
Surr: 2-Fluorophenol	110		200.0		53.0	15	84.5			
Surr: Phenol-d5	84		200.0		42.2	15	67			
Surr: 2,4,6-Tribromophenol	130		200.0		67.1	15	108			
Surr: Nitrobenzene-d5	74		100.0		74.3	16.8	112			
Surr: 2-Fluorobiphenyl	74		100.0		73.6	15	101			
Surr: 4-Terphenyl-d14	95		100.0		95.2	34.4	134			

Sample ID: **lcsd-69456**	SampType: **LCSD**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS02**	Batch ID: **69456**	RunNo: **90411**
Prep Date: **8/12/2022**	Analysis Date: **8/18/2022**	SeqNo: **3225687** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	75	10	100.0	0	75.0	21.3	104	2.35	45.3	
4-Chloro-3-methylphenol	160	5.0	200.0	0	79.4	31.8	104	2.79	54.5	
2-Chlorophenol	150	5.0	200.0	0	76.1	26.9	105	2.68	44.5	
1,4-Dichlorobenzene	66	5.0	100.0	0	65.6	15	89.8	4.08	39.6	
2,4-Dinitrotoluene	61	5.0	100.0	0	61.4	22.9	92.4	1.27	33.1	
N-Nitrosodi-n-propylamine	74	5.0	100.0	0	74.2	33.2	98.8	1.18	48	
4-Nitrophenol	90	10	200.0	0	45.0	27.4	64.2	1.85	14.7	
Pentachlorophenol	130	40	200.0	0	63.6	37.6	93	14.9	15	
Phenol	87	20	200.0	0	43.4	17	61.1	6.85	42.5	
Pyrene	83	10	100.0	0	83.0	61	123	5.07	11.8	
1,2,4-Trichlorobenzene	64	5.0	100.0	0	64.5	15	91.7	0.536	34.2	
Surr: 2-Fluorophenol	100		200.0		52.1	15	84.5	0	0	
Surr: Phenol-d5	81		200.0		40.3	15	67	0	0	
Surr: 2,4,6-Tribromophenol	140		200.0		69.1	15	108	0	0	
Surr: Nitrobenzene-d5	76		100.0		76.0	16.8	112	0	0	
Surr: 2-Fluorobiphenyl	75		100.0		74.8	15	101	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **lcsd-69456**	SampType: **LCSD**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS02**	Batch ID: **69456**	RunNo: **90411**
Prep Date: **8/12/2022**	Analysis Date: **8/18/2022**	SeqNo: **3225687** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	89		100.0		89.1	34.4	134	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **mb-1 alk**	SampType: **mblk**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R90412**	RunNo: **90412**							
Prep Date:	Analysis Date: **8/18/2022**	SeqNo: **3225751**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-1 alk**	SampType: **lcs**	TestCode: **SM2320B: Alkalinity**							
Client ID: **LCSW**	Batch ID: **R90412**	RunNo: **90412**							
Prep Date:	Analysis Date: **8/18/2022**	SeqNo: **3225752**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	76.72	20.00	80.00	0	95.9	90	110			

Sample ID: **mb-1 alk**	SampType: **MBLK**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R90490**	RunNo: **90490**							
Prep Date:	Analysis Date: **8/22/2022**	SeqNo: **3231386**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: **lcs-1 alk**	SampType: **LCS**	TestCode: **SM2320B: Alkalinity**							
Client ID: **LCSW**	Batch ID: **R90490**	RunNo: **90490**							
Prep Date:	Analysis Date: **8/22/2022**	SeqNo: **3231387**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	77.64	20.00	80.00	0	97.0	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208581**

22-Sep-22

Client: AECOM

Project: Bloomfield Terminal

Sample ID: **MB-69469**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **69469**	RunNo: **90255**
Prep Date: **8/12/2022**	Analysis Date: **8/14/2022**	SeqNo: **3218706** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: **LCS-69469**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **69469**	RunNo: **90255**
Prep Date: **8/12/2022**	Analysis Date: **8/14/2022**	SeqNo: **3218707** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1000	20.0	1000	0	100	80	120			

Sample ID: **2208581-004CDUP**	SampType: **DUP**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **MW-34-FD**	Batch ID: **69469**	RunNo: **90255**
Prep Date: **8/12/2022**	Analysis Date: **8/14/2022**	SeqNo: **3218723** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	2220	20.0						0.583	10	*

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **AECOM** Work Order Number: **2208581** RcptNo: **1**

Received By: **Juan Rojas** **8/10/2022 6:25:00 AM**

Completed By: **Cheyenne Cason** **8/10/2022 8:19:07 AM**

Reviewed By: JR 8/10/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: 7 7 (<2 or >12 unless noted)

Adjusted? yes

Checked by: KPG 8.10.22

Labeled: JR 8.10.22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks: Added 0.5ml of HNO3 to sample 008E for pH <2 - KPG 8.10.22

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good	Yes			
2	1.2	Good	Yes			
3	2.3	Good	Yes			

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Chain-of-Custody Record

Client: AECOM

Mailing Address: 6501 Americas Pkwy NE, #900, Albuquerque NM 87110

Phone #: 575-910-7888

email or Fax#: tanner.gruhke@aecom.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: Bloomfield Terminal

Project #: 142937

Project Manager: Eddie Hubbert

Sampler: Katie Humphrey

On Ice: ☒ Yes ☐ No

# of Coolers: 3 2.2+0.1=2.3

Cooler Temp(including CF): 1.1+0.1=1.2 (°C) 0.5+0.1=0.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208581	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	SVOCs	CO_2, Anions, Alkalinity	TDS	Total metals	Dissolved Metals	Anions, Alkalinity
8-9-22	0850	GW	MW-35	10	Misc.	001		X						X				X	X	X	X	
8-9-22	0850	QC	MW-35-FB	5	HCl	002		GRO						X								
8-9-22	~~0850~~ 0940	GW	MW-34	10	Misc.	003		X						X				X	X	X	~~X~~	
8-9-22	0940	GW	MW-34-FD	10	Misc.	004		X						X				X	X	X	~~X~~	
8-9-22	1020	GW	MW-38	11	Misc.	005		X						X			X	X	X	X	X	
8-9-22	1100	GW	MW-27	10	Misc.	006		X						X				X	X	X	X	
8-9-22	1100	QC	MW-27-EB	10	Misc.	~~008~~ 007		X						X				X	X	X	X	
8-9-22	1140	GW	MW-26	10	Misc.	008		X						X				X	X	X	X	
8-9-22	1255	GW	MW-32	10	Misc.	009		X						X				X	X	X	X	
8-9-22	1350	GW	upstream	10	Misc.	010		X						X					X	X		X
8-9-22	1430	QC	TRIP BLANK	3	HCl	011								X								

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8-9-22	1500	Katie Humphrey		Courier	8/9/22	1500
8/9/22	1807	Mustin Walte		Courier	8/10/22	6:25

Remarks:

MW-26 had extremely bubbly water

no dissolved metals on upstream sample

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Received by OCD: 5/15/2023 3:52:10 PM

Released to Imaging: 11/21/2023 10:35:22 AM

TABLE 2
Analytical Methods and Target Analytes
Facility-Wide Groundwater Monitoring Plan - June 2018
Western Refining Southwest, Inc. - Bloomfield Refinery

VOCs (EPA Method 8260B) (1)
- Target List
  - *Benzene*
  - *Toluene*
  - *Ethylbenzene*
  - *Xylenes*
  - *Methyl tert butyl ether (MTBE)*

SVOCs - (EPA Method 8270)
- Method List

TPH-GRO (EPA Method 8015B)
- Gasoline Range Organics

TPH-DRO (EPA Method 8015B)
- Diesel Range Organics
- Motor Oil Range Organics

Total Carbon Dioxide (Laboratory Calculated)
- Dissolved CO2

Specific Conductivity (EPA Method 120.1 or field measurement)
- Specific conductance

TDS (EPA Method 160.1 or field measurement)
- Total dissolved solids

General Chemistry - Anions (EPA Method 300.0)
- *Fluoride*
- *Chloride*
- *Bromide*
- *Nitrogen, Nitrite (as N)*
- *Nitrogen, Nitrate (as N)*
- *Phosphorous, Orthophosphate (As P)*
- *Sulfate*

General Chemistry - Alkalinity (EPA Method 310.1)
- *Alkalinity, Total*
- *Carbonate*
- *Bicarbonate*

Total Recoverable Metals (EPA Method 6010B/7470)
- Target List (not applicable to River Terrace Sampling Events)
  - *Arsenic*
  - *Barium*
  - *Cadmium*
  - *Chromium*
  - *Lead*
  - *Mercury*
  - *Selenium*
  - *Silver*
- Target List (for River Terrace Sampling Events Only)
  - *Lead*
  - *Mercury (DW-1 ONLY)*

Dissolved Metals (EPA Method 6010B / 7470)
- Target List (for Refinery Complex, Outfalls, and River)
  - *Arsenic*
  - *Barium*
  - *Cadmium*
  - *Calcium*
  - *Chromium*
  - *Copper*
  - *Iron*
  - *Lead*
  - *Magnesium*
  - *Manganese*
  - *Mercury*
  - *Potassium*
  - *Selenium*
  - *Silver*
  - *Sodium*
  - *Uranium*
  - *Zinc*

TPH = total petroleum hydrocarbons
GRO = gasoline range organics
VOCs = volatile organic compounds
DRO = diesel range organics
TDS = total dissolved solids

NOTES:

(1) VOCs Target List for River Terrace samples are analyzed by EPA Method 8021B per NMED's letter Approval with Direction dated June 16, 2009.

(2) Target List for San Juan River Terrace Monitoring Wells and Piezometer Wells only, per the River Terrace Bioventing System Monitoring Plan.

ENSOLUM

APPENDIX D

Total Fluids Recovery System Field Notes and Data Sheets

Inspector: T. Short		**Date:**	1/5/2021
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan, 40 CFR Part 60, Subpart QQQ			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.35	16.94	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.48	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
20.81	Dry	Yes	Yes
Aeration Pond #3 Notes			
Tear in seam of liner on north side of pond 3			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.88	10.65	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.54	8.62	1' 6"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
SPH Observed?			
No			

Seeps	
Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No
Jungle Seep *(located NE of Tank #38)*	
Hydrocarbon Odor or Sheen?	
No	

River Terrace			
Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	1/5/2021	0	Elbow broken on system. Could not repair. System will need to be shutdown to repair.
Inlet		0	
Lead		0	
Lag		0	
DW-2		0	
MW-48		0	
BV-11		0	

Inspector: T. Short		**Date:**	1/12/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan, 40 CFR Part 60, Subpart QQQ			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.30	16.84	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.37	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
20.84	Dry	Yes	Yes
Aeration Pond #3 Notes			
Tear in seam of liner on north side of pond 3			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.78	10.64	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.65	8.88	1' 6"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
SPH Observed?			
No			

Seeps	
Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No
Jungle Seep *(located NE of Tank #38)*	
Hydrocarbon Odor or Sheen?	
No	

River Terrace			
Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	1/12/2022	0	
Inlet		0	
Lead		0	
Lag		0	
DW-2		0	
MW-48		0	
BV-11		0	

Inspector: E. Carroll		**Date:**	1/19/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan, 40 CFR Part 60, Subpart QQQ			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.24	16.67	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.29	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
20.50	Dry	Yes	Yes
Aeration Pond #3 Notes			
Tear in seam of liner on north side of pond 3			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.77	10.64	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.64	8.86	2' 2"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
SPH Observed?			
No			

Inspector: T. Short			**Date:** 1/26/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.32	16.88	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.44	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
20.72	Dry	Yes	Yes
Aeration Pond #3 Notes			
Tear in seam of liner on north side of pond 3			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.92	10.71	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.69	8.86	2' 2"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
SPH Observed?			
No			

Inspector: T. Short			**Date:** 2/2/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.38	16.78	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.42	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
20.71	Dry	Yes	Yes
Aeration Pond #3 Notes			
Tear in seam of liner on north side of pond 3			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.95	10.84	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.70	8.82	2' 2"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
SPH Observed?			
No			

Inspector: T. Short			**Date:** 2/9/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.36	16.93	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.40	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
20.74	Dry	Yes	Yes
Aeration Pond #3 Notes			
Tear in seam of liner on north side of pond 3			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.93	10.70	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.31	8.90	2' 2"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
SPH Observed?			
No			

Inspector: T. Short		**Date:**	2/16/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.30	16.76	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.43	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
20.67	Dry	Yes	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.92	10.72	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.25	8.85	2' 2"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
SPH Observed?			
No			

Inspector: T. Short		**Date:**	2/23/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.26	16.75	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.41	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
20.72	Dry	Yes	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.89	10.53	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.01	8.55	2' 1"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
SPH Observed?			
No			

Inspector: T. Short		**Date:**	3/2/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.31	16.83	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.41	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
20.76	Dry	Yes	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.81	10.57	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
8.91	8.14	2' 5"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
SPH Observed?			
No			

Inspector: T. Short		**Date:**	3/9/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.30	16.88	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.29	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
20.77	Dry	Yes	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.80	10.50	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
8.57	8.41	2' 4"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
SPH Observed?			
No			

Inspector: T. Short		**Date:**	3/16/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.27	16.70	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.33	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
20.71	Dry	Yes	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.63	10.40	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
8.36	8.61	2' 4"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
SPH Observed?			
No			

Inspector: T. Short		**Date:**	3/23/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.34	16.79	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.50	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
20.71	Dry	Yes	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.97	10.97	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
8.26	5.68	2' 7"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
SPH Observed?			
No			

Inspector: T. Short		**Date:**	3/30/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.28	16.55	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.37	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
20.64	Dry	Yes	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.67	10.70	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
8.62	8.51	2' 7"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
SPH Observed?			
No			

Inspector: T. Short		**Date:**	4/6/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.36	16.60	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.42	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
20.69	Dry	Yes	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.89	10.68	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
8.61	8.63	2' 7"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
SPH Observed?			
No			

Inspector: D. Burns			**Date:** 4/13/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.18	16.87	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
17.43	Dry	Yes	Yes
Aeration Pond #2 Notes			
Trash/debris on western edge of pond, in boom.			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet feeboard
20.67	Dry	Yes	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.93	10.72	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
7.81	8.65	3'8"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: D. Burns		**Date:**	4/20/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
17.11	16.40	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
17.19	Dry	Yes	Yes
Aeration Pond #2 Notes			
Trash/debris on western edge of pond, in boom.			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
20.45	Dry	Yes	Yes
Aeration Pond #3 Notes			
Oily rag/absorbent material on liner			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.89	10.69	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
7.83	8.62	3'4"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: D. Burns		**Date:**	4/27/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
17.39	16.76	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
17.44	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
21.31	Dry	Yes	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	Benzene stripper sampled, Inlet and Outlet
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.91	10.71	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
7.43	8.48	3'4"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: E. Carroll		**Date:**	5/11/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
17.28	16.66	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
17.14	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
20.35	Dry	Yes	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.87	10.73	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
7.68	8.44	3'2"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: D. Burns		**Date:**	5/18/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
17.14	16.31	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
17.21	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
20.54	Dry	Yes	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.89	10.72	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
8.09	8.57	3'0"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: E. Carroll		**Date:**	5/25/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
17.08	16.32	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
17.17	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
20.35	Dry	Yes	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.89	10.72	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
8.46	8.30	3'2"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: E. Carroll		**Date:**	6/01/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
17.12	16.32	Yes	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
17.18	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
20.41	Dry	Yes	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	API has been cleaned and sludge removed roll-off west of API with removed contents.
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.90	10.75	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
8.61	8.30	3'1"	2,863 gallons removed from the west leak detection and 4,146 from the east leak detection
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: E. Carroll		**Date:**	6/08/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
17.15	16.33	No	Yes
Aeration Pond #1 Notes			
One aerator not running.			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
17.16	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
20.44	Dry	Yes	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.90	10.77	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
8.87	8.59	3'1"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: E. Carroll		**Date:**	6/15/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
17.11	16.28	No	Yes
Aeration Pond #1 Notes			
One aerator not running.			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
17.21	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
20.41	Dry	Yes	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.88	10.75	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
8.90	8.59	2'11"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: E. Carroll		**Date:**	6/22/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
17.05	16.21	No	Yes
Aeration Pond #1 Notes			
One aerator not running.			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
17.20	Dry	Yes	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Aerators Running	>3 feet freeboard
20.48	Dry	Yes	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.87	10.75	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
8.88	8.57	2'10"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: E. Carroll		**Date:**	6/29/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
16.99	16.10	1	Yes
Aeration Pond #1 Notes			
One aerator not running.			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.13	Dry	2	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
20.34	Dry	2	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.87	10.76	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
8.90	8.53	2'11"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: E. Carroll		**Date:**	7/6/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
16.97	16.09	1	Yes
Aeration Pond #1 Notes			
One aerator not running.			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.10	Dry	2	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
20.36	Dry	2	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.88	10.77	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
8.91	8.53	3'0"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: D. Burns		**Date:**	7/13/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
16.98	16.12	2	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.10	Dry	2	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
20.29	Dry	2	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.89	10.75	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
8.93	8.53	3'1"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: D. Burns		**Date:**	7/20/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
16.98	16.19	2	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.11	Dry	2	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
20.39	Dry	2	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.86	10.66	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
8.89	8.52	3'2"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: E. Carroll		**Date:**	7/27/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
16.98	16.13	2	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.11	Dry	2	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
20.37	Dry	2	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.88	10.64	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
8.90	8.52	3'4"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: D. Burns		**Date:**	8/3/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.13	16.23	2	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.35	Dry	2	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
20.71	Dry	2	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.85	10.66	DRY	Half of pond still has visible stormwater present
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
8.59	8.49	4'6"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: D. Burns		**Date:**	8/10/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.13	16.32	2	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.35	Dry	2	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
20.85	Dry	2	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.88	10.65	DRY	Still has visible stormwater present
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
6.79	8.27	3'6"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: D. Burns		**Date:**	8/17/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.13	16.31	2	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.42	Dry	2	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
20.68	Dry	2	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.87	10.71	DRY	Still has visible stormwater present
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
6.13	6.26	3'6"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: E. Carroll		**Date:**	8/24/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.12	16.55	2	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.34	Dry	2	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
20.69	Dry	2	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.87	10.71	DRY	Still has visible stormwater present
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
5.80	5.45	3'7"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: D. Hencmann		**Date:**	8/31/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.11	16.54	2	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.30	Dry	2	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
20.69	Dry	2	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.86	10.69	DRY	Still has visible stormwater present
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
5.97	5.70	3'7"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: E. Carroll		**Date:**	9/7/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.13	16.55	2	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.31	Dry	2	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
20.68	Dry	2	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.88	10.71	DRY	Still has visible stormwater present
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
5.58	6.00	3'10"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: E. Carroll		**Date:**	9/14/2022
API Inspection - Condition 4C OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.08	16.47	2	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.23	Dry	2	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
20.66	Dry	2	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
Small amount of stormwater			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 4C OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.88	10.71	DRY	Still has visible stormwater present
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
5.56	5.78	2'11"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: E. Carroll		**Date:**	9/21/2022
API Inspection - Condition 2.K. OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.07	16.49	2	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.25	Dry	2	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
20.69	Dry	2	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
Rain event occured during site visit. Storm water observed weeping into tertiary containment			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 2.K. OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.87	10.70	DRY	Still has visible stormwater present
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
5.47	4.98	3'11"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: D. Burns		**Date:**	9/28/2022
API Inspection - Condition 2.K. OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.16	16.54	2	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.17	Dry	2	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
20.72	Dry	2	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
NO			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 2.K. OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.87	10.69	DRY	Still has visible stormwater present
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
5.28	4.75	3'11"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: E. Carroll		**Date:**	10/5/2022
API Inspection - Condition 2.K. OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.15	16.52	2	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.22	Dry	2	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
20.68	Dry	2	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 2.K. OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.87	10.69	DRY	Still has visible stormwater present
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
5.16	4.61	4'00"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

Inspector: E. Carroll		**Date:**	10/12/2022
API Inspection - Condition 2.K. OCD Discharge Permit GW-001 - 2010 Aeration Lagoons Action Plan			
Aeration Pond #1			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.17	16.54	2	Yes
Aeration Pond #1 Notes			
Aeration Pond #2			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
17.24	Dry	2	Yes
Aeration Pond #2 Notes			
Aeration Pond #3			
Primary (feet)	Secondary (feet)	Number of Aerators Running	>3 feet freeboard
20.69	Dry	2	Yes
Aeration Pond #3 Notes			
PSH Observed?			
No			
Tertiary Containment (Culvert)			
Contain Water?			
No			

API Oil/Water Separator	**Notes**
All seals / gaskets in place & free of gaps, access doors & all openings closed.	
Yes	

Evaporation Pond - Condition 2.K. OCD Discharge Permit GW-001			
North Pond			
East (feet)	West (feet)	Pond Depth	Comments
9.87	10.70	DRY	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
South Pond			
East (feet)	West (feet)	Pond Depth	Comments
5.14	4.56	4'00"	
>3 ft Freeboard	Dike Integrity OK?		
Yes	OK		
PSH Observed?			
No			

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API Inspection

- Condition 2.K OCD Discharge Permit GW-001
- 2010 Aeration Lagoons Action Plan

Inspector Eric Carroll **Date** October 19, 2022

Aeration Pond #1

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.13	16.49	2	Yes

Aeration Pond #2

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.20	Dry	2	Yes

Aeration Pond #3

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
20.63	Dry	2	Yes

PSH Observed?
NO

Tertiary Containment (Culvert) - Contain Water?
NO

API Oil/Water Separator - All seals/gaskets in place & free of gaps, access doors & all openings closed
YES

Evaporation Pond
- Condition 2.K. OCD Discharge Permit GW-001

North Pond

East (feet)	9.88
West (feet)	10.70
Pnd Depth	Dry
>3 feet Free board	Yes
Dike Integrity	Ok

South Pond

East (feet)	5.10
West (feet)	4.55
Pnd Depth	4'2"
>3 feet Free board	Yes

Dike Integrity	Ok

PSH Observed?

NO

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API Inspection

- Condition 2.K OCD Discharge Permit GW-001
- 2022 Aeration Lagoon/Evaporation Pond Contingency Plans

Inspector

Date October 26, 2022

Aeration Pond #1

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.10	16.88	2	Yes

Aeration Pond #1 Notes

Aeration Pond #2

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.35	Dry	2	Yes

Aeration Pond #2 Notes

Aeration Pond #3

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
20.95	Dry	2	Yes

Aeration Pond #3 Notes

PSH Observed?

NO

Tertiary Containment (Culvert) - Contain Water?

NO

API Oil/Water Separator - All seals/gaskets in place & free of gaps, access doors & all openings closed

YES

API Oil/Water Seperator Notes

North Pond

East (feet)	9.88
West (feet)	10.70
Pnd Depth	Dry
>3 feet Free board	Yes
Dike Integrity	Ok

South Pond

East (feet)	5.07
West (feet)	4.49
Pnd Depth	4'
>3 feet Free board	Yes
Dike Integrity	Ok

North Pond Comments

South Pond Comments

PSH Observed?

NO

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

API Inspection

- Condition 2.K OCD Discharge Permit GW-001
- 2022 Aeration Lagoon/Evaporation Pond Contingency Plans

Inspector Zach Myers **Date** November 2, 2022

Aeration Pond #1

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.12	16.73	2	Yes

Aeration Pond #1 Notes

Aeration Pond #2

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.37	Dry	2	Yes

Aeration Pond #2 Notes

Aeration Pond #3

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
20.65	Dry	2	Yes

Aeration Pond #3 Notes

PSH Observed?

NO

Tertiary Containment (Culvert) - Contain Water?

NO

API Oil/Water Separator - All seals/gaskets in place & free of gaps, access doors & all openings closed

YES

API Oil/Water Seperator Notes

North Pond

East (feet)	9.88
West (feet)	10.70
Pnd Depth	Dry
>3 feet Free board	Yes
Dike Integrity	Ok

South Pond

East (feet)	4.98
West (feet)	4.44
Pnd Depth	4'
>3 feet Free board	Yes
Dike Integrity	Ok

North Pond Comments

South Pond Comments

PSH Observed?

NO

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

API Inspection

- Condition 2.K OCD Discharge Permit GW-001
- 2022 Aeration Lagoon/Evaporation Pond Contingency Plans

Inspector E. Carroll **Date** November 9, 2022

Aeration Pond #1

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.15	16.72	2	Yes

Aeration Pond #1 Notes

Aeration Pond #2

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.34	Dry	2	Yes

Aeration Pond #2 Notes

Aeration Pond #3

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
20.69	Dry	2	Yes

Aeration Pond #3 Notes

PSH Observed?
NO

Tertiary Containment (Culvert) - Contain Water?
NO

API Oil/Water Separator - All seals/gaskets in place & free of gaps, access doors & all openings closed
YES

API Oil/Water Seperator Notes

North Pond

East (feet)	9.88
West (feet)	10.71
Pnd Depth	Dry
>3 feet Free board	Yes
Dike Integrity	Ok

South Pond

East (feet)	4.89
West (feet)	4.32
Pnd Depth	4' 2"
>3 feet Free board	Yes
Dike Integrity	Ok

North Pond Comments

South Pond Comments

PSH Observed?
NO

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

API Inspection

- Condition 2.K OCD Discharge Permit GW-001
- 2022 Aeration Lagoon/Evaporation Pond Contingency Plans

Inspector Zach Myers **Date** November 16, 2022

Aeration Pond #1

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.15	16.85	2	Yes

Aeration Pond #1 Notes

Aeration Pond #2

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.40	Dry	2	Yes

Aeration Pond #2 Notes

Aeration Pond #3

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
20.65	Dry	2	Yes

Aeration Pond #3 Notes

PSH Observed?

NO

Tertiary Containment (Culvert) - Contain Water?

NO

API Oil/Water Separator - All seals/gaskets in place & free of gaps, access doors & all openings closed

YES

API Oil/Water Seperator Notes

North Pond

East (feet)	9.90
West (feet)	10.75
Pnd Depth	Dry
>3 feet Free board	Yes
Dike Integrity	Ok

South Pond

East (feet)	4.90
West (feet)	4.31
Pnd Depth	4'1"
>3 feet Free board	Yes
Dike Integrity	Ok

North Pond Comments

South Pond Comments

PSH Observed?

NO

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

API Inspection

- Condition 2.K OCD Discharge Permit GW-001
- 2022 Aeration Lagoon/Evaporation Pond Contingency Plans

Inspector Zach Myers **Date** November 30, 2022

Aeration Pond #1

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.18	16.91	2	Yes

Aeration Pond #1 Notes

Aeration Pond #2

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.35	Dry	2	Yes

Aeration Pond #2 Notes

Aeration Pond #3

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
20.70	Dry	2	Yes

Aeration Pond #3 Notes

PSH Observed?

NO

Tertiary Containment (Culvert) - Contain Water?

NO

API Oil/Water Separator - All seals/gaskets in place & free of gaps, access doors & all openings closed

YES

API Oil/Water Seperator Notes

North Pond

East (feet)	9.88
West (feet)	10.75
Pnd Depth	Dry
>3 feet Free board	Yes
Dike Integrity	Good

South Pond

East (feet)	4.71
West (feet)	4.22
Pnd Depth	4.20
>3 feet Free board	Yes
Dike Integrity	Good

North Pond Comments

South Pond Comments

PSH Observed?

NO

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

API Inspection

- Condition 2.K OCD Discharge Permit GW-001
- 2022 Aeration Lagoon/Evaporation Pond Contingency Plans

Inspector Zach Myers **Date** December 7, 2022

Aeration Pond #1

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.12	16.78	2	Yes

Aeration Pond #1 Notes

Aeration Pond #2

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.40	Dry	2	Yes

Aeration Pond #2 Notes

Aeration Pond #3

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
20.25	Dry	2	Yes

Aeration Pond #3 Notes

PSH Observed?

NO

Tertiary Containment (Culvert) - Contain Water?

NO

API Oil/Water Separator - All seals/gaskets in place & free of gaps, access doors & all openings closed

YES

API Oil/Water Seperator Notes

North Pond

East (feet)	10.70
West (feet)	9.90
Pnd Depth	Dry
>3 feet Free board	Yes
Dike Integrity	Ok

South Pond

East (feet)	4.73
West (feet)	4.18
Pnd Depth	4.10
>3 feet Free board	Yes
Dike Integrity	Ok

North Pond Comments

South Pond Comments

PSH Observed?

NO

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

API Inspection

- Condition 2.K OCD Discharge Permit GW-001
- 2022 Aeration Lagoon/Evaporation Pond Contingency Plans

Inspector Eric Carroll **Date** December 14, 2022

Aeration Pond #1

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.14	16.78	2	Yes

Aeration Pond #1 Notes

Aeration Pond #2

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.42	Dry	2	Yes

Aeration Pond #2 Notes

Aeration Pond #3

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
20.65	Dry	2	Yes

Aeration Pond #3 Notes

PSH Observed?
NO

Tertiary Containment (Culvert) - Contain Water?
NO

API Oil/Water Separator - All seals/gaskets in place & free of gaps, access doors & all openings closed
YES

API Oil/Water Seperator Notes

North Pond

East (feet)	10.67
West (feet)	11.04
Pnd Depth	Dry
>3 feet Free board	Yes
Dike Integrity	Ok

South Pond

East (feet)	4.83
West (feet)	4.21
Pnd Depth	4' 3"
>3 feet Free board	Yes
Dike Integrity	Ok

North Pond Comments

South Pond Comments

PSH Observed?
NO

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

API Inspection

- Condition 2.K OCD Discharge Permit GW-001
- 2022 Aeration Lagoon/Evaporation Pond Contingency Plans

Inspector DANNY BURNS **Date** December 21, 2022

Aeration Pond #1

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.22	17.04	2	Yes

Aeration Pond #1 Notes

Aeration Pond #2

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.39	DRY	2	Yes

Aeration Pond #2 Notes

Ice on top

Aeration Pond #3

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
21.73	DRY	2	Yes

Aeration Pond #3 Notes

Ice on top

PSH Observed?

NO

Tertiary Containment (Culvert) - Contain Water?

NO

API Oil/Water Separator - All seals/gaskets in place & free of gaps, access doors & all openings closed

YES

API Oil/Water Seperator Notes

North Pond

East (feet)	9.95
West (feet)	10.76
Pnd Depth	Dry
>3 feet Free board	Yes
Dike Integrity	Ok

South Pond

East (feet)	4.77
West (feet)	4.21
Pnd Depth	4'2"
>3 feet Free board	Yes
Dike Integrity	Ok

North Pond Comments

South Pond Comments

PSH Observed?

NO

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

API Inspection

- Condition 2.K OCD Discharge Permit GW-001
- 2022 Aeration Lagoon/Evaporation Pond Contingency Plans

Inspector Danny Burns **Date** December 28, 2022

Aeration Pond #1

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.38	16.78	2	Yes

Aeration Pond #1 Notes

Aeration Pond #2

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
17.36	Dry	2	Yes

Aeration Pond #2 Notes

Aeration Pond #3

Primary (feet)	Secondary (feet)	Numbers of Aerators Running	>3 feet freeboard
20.84	Dry	2	Yes

Aeration Pond #3 Notes

PSH Observed?
NO

Tertiary Containment (Culvert) - Contain Water?
NO

API Oil/Water Separator - All seals/gaskets in place & free of gaps, access doors & all openings closed
YES

API Oil/Water Seperator Notes

North Pond

East (feet)	9.91
West (feet)	10.74
Pnd Depth	Dry
>3 feet Free board	Yes
Dike Integrity	Ok

South Pond

East (feet)	4.75
West (feet)	4.07
Pnd Depth	4'4"
>3 feet Free board	Yes
Dike Integrity	Ok

North Pond Comments

South Pond Comments

PSH Observed?
NO

Inspector: T. Short	**Date:** 1/26/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	1/26/2022	3.5	
BV-1		3.5	
BV-3		3.5	
BV-4		3.5	
BV-5		3.5	
BV-6		3.5	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	21522	
Tank #38	9108	
River Terrace	NM	No Flow at GAC tanks
API	NM	

Inspector: T. Short	**Date:** 2/2/2022
GW Remediation Monitoring - Section IV.A.2 July 2007 Consent Order (NMED-HWB) -Section 2.F. of Discharge Permit GW-001	
Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No
Jungle Seep *(located NE of Tank #38)*	
Hydrocarbon Odor or Sheen?	
No	

Biovent/Air Sparge			
Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	2/2/2022	NM	Unable to access river terrace due to snow accumulation
BV-1		NM	
BV-3		NM	
BV-4		NM	
BV-5		NM	
BV-6		NM	

GW Recovery		
Location	***Total Flow (BBLS)***	***Notes***
Tank #37	27547	
Tank #38	10339	
River Terrace	NM	
API	NM	

Inspector: T. Short	**Date:** 2/9/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	2/9/2022	3.5	
BV-1		3.5	
BV-3		3.5	
BV-4		3.5	
BV-5		3.5	
BV-6		3.5	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	21579	
Tank #38	11531	
River Terrace	NM	
API	NM	

Inspector: T. Short	**Date:** 2/16/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	2/16/2022	3.5	
BV-1		3.5	
BV-3		3.5	
BV-4		3.5	
BV-5		3.5	
BV-6		3.5	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	21613	
Tank #38	12714	
River Terrace	NM	
API	NM	

Inspector: T. Short	**Date:** 2/23/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	2/23/2022	3.5	
BV-1		3.5	
BV-3		3.5	
BV-4		3.5	
BV-5		3.5	
BV-6		3.5	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	21650	
Tank #38	13842	
River Terrace	NM	
API	NM	

Inspector: T. Short	**Date:** 3/2/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	3/2/2022	3.5	
BV-1		3.5	
BV-3		3.5	
BV-4		3.5	
BV-5		3.5	
BV-6		3.5	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	21692	
Tank #38	13995	
River Terrace	NM	
API	NM	

Inspector: T. Short	**Date:** 3/2/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	3/9/2022	3.5	
BV-1		3.5	
BV-3		3.5	
BV-4		3.5	
BV-5		3.5	
BV-6		3.5	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	21735	
Tank #38	16170	
River Terrace	NM	
API	NM	

Inspector: T. Short	**Date:** 3/16/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	3/16/2022	3.5	
BV-1		3.5	
BV-3		3.5	
BV-4		3.5	
BV-5		3.5	
BV-6		3.5	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	21773	
Tank #38	17495	
River Terrace	NM	
API	NM	

Inspector: T. Short	**Date:** 3/23/2022
GW Remediation Monitoring - Section IV.A.2 July 2007 Consent Order (NMED-HWB) -Section 2.F. of Discharge Permit GW-001	
Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No
Jungle Seep *(located NE of Tank #38)*	
Hydrocarbon Odor or Sheen?	
No	

Biovent/Air Sparge			
Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	3/23/2022	3.5	
BV-1		3.5	
BV-3		3.5	
BV-4		3.5	
BV-5		3.5	
BV-6		3.5	

GW Recovery		
Location	***Total Flow (BBLS)***	***Notes***
Tank #37	21816	
Tank #38	18810	
River Terrace	NM	
API	NM	

Inspector: T. Short	**Date:** 3/30/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	3/30/2022	3.5	
BV-1		3.5	
BV-3		3.5	
BV-4		3.5	
BV-5		3.5	
BV-6		3.5	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	21851	
Tank #38	20087	
River Terrace	NM	
API	NM	

Inspector: T. Short	**Date:** 4/6/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	4/6/2022	3.5	
BV-1		3.5	
BV-3		3.5	
BV-4		3.5	
BV-5		3.5	
BV-6		3.5	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	21870	
Tank #38	21360	
River Terrace	NM	
API	NM	

Inspector: D. Burns	**Date:** 4/13/2022
GW Remediation Monitoring - Section IV.A.2 July 2007 Consent Order (NMED-HWB) -Section 2.F. of Discharge Permit GW-001	
Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No
Jungle Seep *(located NE of Tank #38)*	
Hydrocarbon Odor or Sheen?	
No	

Biovent/Air Sparge

Location	*Date*	*Pressure (PSI)*	*Notes*
Blower	4/13/2022	3.5	
BV-1		3.5	
BV-3		3.5	
BV-4		3.5	
BV-5		3.5	
BV-6		3.5	

GW Recovery

Location	*Total Flow (BBLS)*	*Notes*
Tank #37	21,910	
Tank #38	22,688	
River Terrace	NA	
API	NA	

Inspector: D. Burns	**Date:** 4/20/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	4/20/2022	3.8	Repaired crack in PVC line.
BV-1		3.8	
BV-3		3.8	
BV-4		3.8	
BV-5		3.8	
BV-6		3.8	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	21,927	
Tank #38	24,109	
River Terrace	NA	
API	NA	

Inspector: D. Burns	**Date:** 4/27/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	4/27/2022	3.5	
BV-1		3.5	
BV-3		3.5	
BV-4		3.5	
BV-5		3.5	
BV-6		3.5	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	21,946	
Tank #38	25,617	
River Terrace	NA	
API	NA	

Inspector: E. Carroll	**Date:** 5/11/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	5/11/2022	4.0	
BV-1		4.0	
BV-3		4.0	
BV-4		4.0	
BV-5		4.0	
BV-6		4.0	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	21,980	
Tank #38	28,928	
River Terrace	NA	
API	NA	

Inspector: D. Burns	**Date:** 5/18/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	5/18/2022	3.8	
BV-1		3.8	
BV-3		3.8	
BV-4		3.8	
BV-5		3.8	
BV-6		3.8	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	21,992	
Tank #38	31,396	
River Terrace	NA	
API	NA	

Inspector: E. Carroll	**Date:** 5/25/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	5/25/2022	3.8	
BV-1		3.8	
BV-3		3.8	
BV-4		3.8	
BV-5		3.8	
BV-6		3.8	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	22,003	
Tank #38	34,196	
River Terrace	NA	
API	NA	

Inspector: E. Carroll	**Date:** 6/1/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	6/1/2022	4.0	
BV-1		4.0	
BV-3		4.0	
BV-4		4.0	
BV-5		4.0	
BV-6		4.0	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	22,014	
Tank #38	37,799	
River Terrace	NA	
API	NA	

Inspector: E. Carroll	**Date:** 6/8/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	6/8/2022	4.0	
BV-1		4.0	
BV-3		4.0	
BV-4		4.0	
BV-5		4.0	
BV-6		4.0	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	22,023	
Tank #38	42,344	
River Terrace	NA	
API	NA	

Inspector: E. Carroll	**Date:** 6/15/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	6/15/2022	4.0	
BV-1		4.0	
BV-3		4.0	
BV-4		4.0	
BV-5		4.0	
BV-6		4.0	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	22,032	
Tank #38	45,052	
River Terrace	NA	
API	NA	

Inspector: E. Carroll	**Date:** 6/22/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	6/22/2022	3.8	
BV-1		3.8	
BV-3		3.8	
BV-4		3.8	
BV-5		3.8	
BV-6		3.8	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	22,043	
Tank #38	47,437	
River Terrace	NA	
API	NA	

Inspector: E. Carroll	**Date:** 6/29/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	6/29/2022	3.8	
BV-1		3.8	
BV-3		3.8	
BV-4		3.8	
BV-5		3.8	
BV-6		3.8	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	22,063	Vacuum truck pulling liquids from Tank 37. Total flow does not include Vacuum truck volume.
Tank #38	50,435	
River Terrace	NA	
API	NA	

Inspector: E. Carroll	**Date:** 7/06/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	7/06/2022	3.8	
BV-1		3.8	
BV-3		3.8	
BV-4		3.8	
BV-5		3.8	
BV-6		3.8	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	22,228	
Tank #38	54,110	
River Terrace	NA	
API	NA	

Inspector: D. Burns	**Date:** 7/13/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No
Jungle Seep *(located NE of Tank #38)*	
Hydrocarbon Odor or Sheen?	
No, but running stronger than usual.	

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	7/13/2022	3.8	
BV-1		3.8	
BV-3		3.8	
BV-4		3.8	
BV-5		3.8	
BV-6		3.8	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	22,466	
Tank #38	58,252	
River Terrace	NA	
API	NA	

Inspector: D. Burns	**Date:** 7/20/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No.

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	7/20/2022	3.8	
BV-1		3.8	
BV-3		3.8	
BV-4		3.8	
BV-5		3.8	
BV-6		3.8	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	22,673	
Tank #38	58,252	
River Terrace	NA	
API	NA	

Inspector: E.Carroll	**Date:** 7/27/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No.

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	7/27/2022	3.8	
BV-1		3.8	
BV-3		3.8	
BV-4		3.8	
BV-5		3.8	
BV-6		3.8	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	22,903	
Tank #38	8,966.42	
River Terrace	NA	
API	NA	

Inspector: D. Burns	**Date:** 8/3/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No.

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	8/3/2022	3.8	
BV-1		3.8	
BV-3		3.8	
BV-4		3.8	
BV-5		3.8	
BV-6		3.8	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	23,025	
Tank #38	62,596	
River Terrace	NA	
API	NA	

Inspector: D. Burns	**Date:** 8/10/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No.

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	8/10/2022	3.8	
BV-1		3.8	
BV-3		3.8	
BV-4		3.8	
BV-5		3.8	
BV-6		3.8	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	23,143	
Tank #38	67,862	
River Terrace	NA	
API	NA	

Inspector: D. Burns	**Date:** 8/17/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No.

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	8/17/2022	3.8	
BV-1		3.8	
BV-3		3.8	
BV-4		3.8	
BV-5		3.8	
BV-6		3.8	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	23,243	
Tank #38	72,088	
River Terrace	NA	
API	NA	

Inspector: E. Carroll	**Date:** 8/24/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No.

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	8/24/2022	3.8	
BV-1		3.8	
BV-3		3.8	
BV-4		3.8	
BV-5		3.8	
BV-6		3.8	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	23,327	
Tank #38	76,215	
River Terrace	NA	
API	NA	

Inspector: D. Hencmann	**Date:** 8/31/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No.

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	8/31/2022	3.8	
BV-1		3.8	
BV-3		3.8	
BV-4		3.8	
BV-5		3.8	
BV-6		3.8	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	23,411	
Tank #38	80,816	
River Terrace	NA	
API	NA	

Inspector: E. Carroll	**Date:** 9/7/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No.

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	9/7/2022	3.8	
BV-1		3.8	
BV-3		3.8	
BV-4		3.8	
BV-5		3.8	
BV-6		3.8	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	23,487	
Tank #38	86,171	
River Terrace	NA	
API	NA	

Inspector: E. Carroll	**Date:** 9/14/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No.

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	9/14/2022	3.6	
BV-1		3.6	
BV-3		3.6	
BV-4		3.6	
BV-5		3.6	
BV-6		3.6	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	23,560	
Tank #38	91,052	
River Terrace	NA	
API	NA	

Inspector: E. Carroll	**Date:** 9/21/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No.

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	9/21/2022	3.6	
BV-1		3.6	
BV-3		3.6	
BV-4		3.6	
BV-5		3.6	
BV-6		3.6	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	23,624	
Tank #38	95,187	
River Terrace	NA	
API	NA	

Inspector: D. Burns	**Date:** 9/28/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No.

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	9/28/2022	3.8	
BV-1		3.8	
BV-3		3.8	
BV-4		3.8	
BV-5		3.8	
BV-6		3.8	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	23,689	
Tank #38	98,545	
River Terrace	NA	
API	NA	

Inspector: E. Carroll	**Date:** 10/5/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No.

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	10/5/2022	3.8	
BV-1		3.8	
BV-3		3.8	
BV-4		3.8	
BV-5		3.8	
BV-6		3.8	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	23,750	
Tank #38	101,880	
River Terrace	NA	
API	NA	

Inspector: E. Carroll	**Date:** 10/12/2022

GW Remediation Monitoring
- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
-Section 2.F. of Discharge Permit GW-001

Seep 1	***Seep 2***
Evidence of active Seep?	Evidence of active Seep?
No	No
Seep 3	***Seep 5***
Evidence of active Seep?	Evidence of active Seep?
No	No

Jungle Seep *(located NE of Tank #38)*
Hydrocarbon Odor or Sheen?
No.

Biovent/Air Sparge

Location	***Date***	***Pressure (PSI)***	***Notes***
Blower	10/12/2022	3.8	
BV-1		3.8	
BV-3		3.8	
BV-4		3.8	
BV-5		3.8	
BV-6		3.8	

GW Recovery

Location	***Total Flow (BBLS)***	***Notes***
Tank #37	23,805	
Tank #38	104,774	
River Terrace	NA	
API	NA	

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GW Remediation Monitoring

- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
- Section 2.F. of Discharge Permit GW-001

Inspector Eric Carroll **Date** Wednesday, October 19, 2022

Seep 1
Evidence of active Seep?
NO

Seep 2
Evidence of active Seep?
NO

Seep 3
Evidence of active Seep?
NO

Seep 5
Evidence of active Seep?
NO

Jungle Seep (located NE of Tank #38)
Hydrocarbon Odor or Sheen?
NO

Biovent/Air Sparge

	Pressure (PSI)	Notes
Blower	3.6	
BV-1	3.6	
BV-3	3.6	
BV-4	3.6	
BV-5	3.6	
BV-6	3.6	

GW Recovery

	Total Flow (BBLS)	Notes
Tank #37	23857	
Tank #38	107035	
River Terrace		
API	482419050 gal	Pump east of pond 3

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GW Remediation Monitoring

- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
- Section 2.F. of Discharge Permit GW-001

Inspector Zach Myers **Date** Wednesday, October 26, 2022

Seep 1
Evidence of active Seep?
NO

Seep 2
Evidence of active Seep?
NO

Seep 3
Evidence of active Seep?
NO

Seep 5
Evidence of active Seep?
NO

Jungle Seep (located NE of Tank #38)
Hydrocarbon Odor or Sheen?
NO

Biovent/Air Sparge

	Pressure (PSI)	Notes
Blower	3.6	
BV-1	3.6	
BV-3	3.6	
BV-4	3.6	
BV-5	3.6	
BV-6	3.6	

GW Recovery

	Total Flow (BBLS)	Notes
Tank #37	23905	
Tank #38	109175	
River Terrace		
API		

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GW Remediation Monitoring

- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
- Section 2.F. of Discharge Permit GW-001

Inspector Zach Myers **Date** Wednesday, November 2, 2022

Seep 1
Evidence of active Seep?
NO

Seep 2
Evidence of active Seep?
NO

Seep 3
Evidence of active Seep?
NO

Seep 5
Evidence of active Seep?
NO

Jungle Seep (located NE of Tank #38)
Hydrocarbon Odor or Sheen?
NO

Biovent/Air Sparge

	Pressure (PSI)	Notes
Blower	3.8	
BV-1	NM	
BV-3	NM	
BV-4	NM	
BV-5	NM	
BV-6	NM	

GW Recovery

	Total Flow (BBLS)	Notes
Tank #37	23945	
Tank #38	110529	
River Terrace		
API		

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GW Remediation Monitoring

- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
- Section 2.F. of Discharge Permit GW-001

Inspector E. Carroll **Date** Wednesday, November 9, 2022

Seep 1
Evidence of active Seep?
NO

Seep 2
Evidence of active Seep?
NO

Seep 3
Evidence of active Seep?
NO

Seep 5
Evidence of active Seep?
NO

Jungle Seep (located NE of Tank #38)
Hydrocarbon Odor or Sheen?
NO

Biovent/Air Sparge

	Pressure (PSI)	Notes
Blower	3.7	
BV-1	3.7	
BV-3	3.7	
BV-4	3.7	
BV-5	3.7	
BV-6	3.7	

GW Recovery

	Total Flow (BBLS)	Notes
Tank #37	23989	
Tank #38	111841	
River Terrace		
API		

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

GW Remediation Monitoring

- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
- Section 2.F. of Discharge Permit GW-001

Inspector Zach Myers **Date** Wednesday, November 16, 2022

Seep 1
Evidence of active Seep?
NO

Seep 2
Evidence of active Seep?
NO

Seep 3
Evidence of active Seep?
NO

Seep 5
Evidence of active Seep?
NO

Jungle Seep (located NE of Tank #38)
Hydrocarbon Odor or Sheen?
NO

Biovent/Air Sparge

	Pressure (PSI)	Notes
Blower	3.75	
BV-1	3.75	
BV-3	3.75	
BV-4	3.75	
BV-5	3.75	
BV-6	3.75	

GW Recovery

	Total Flow (BBLS)	Notes
Tank #37	24030	
Tank #38	113056	
River Terrace		
API		

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GW Remediation Monitoring

- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
- Section 2.F. of Discharge Permit GW-001

Inspector Zach Myers **Date** Wednesday, November 30, 2022

Seep 1
Evidence of active Seep?
NO

Seep 2
Evidence of active Seep?
NO

Seep 3
Evidence of active Seep?
NO

Seep 5
Evidence of active Seep?
NO

Jungle Seep (located NE of Tank #38)
Hydrocarbon Odor or Sheen?
NO

Biovent/Air Sparge

	Pressure (PSI)	Notes
Blower	3.8	
BV-1	3.8	
BV-3	3.8	
BV-4	3.8	
BV-5	3.8	
BV-6	3.8	

GW Recovery

	Total Flow (BBLS)	Notes
Tank #37	24115	
Tank #38	115300	
River Terrace		
API		

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GW Remediation Monitoring

- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
- Section 2.F. of Discharge Permit GW-001

Inspector Zach Myers **Date** Wednesday, December 7, 2022

Seep 1
Evidence of active Seep?
NO

Seep 2
Evidence of active Seep?
NO

Seep 3
Evidence of active Seep?
NO

Seep 5
Evidence of active Seep?
NO

Jungle Seep (located NE of Tank #38)
Hydrocarbon Odor or Sheen?
NO

Biovent/Air Sparge

	Pressure (PSI)	Notes
Blower	3.8	
BV-1	3.8	
BV-3	3.8	
BV-4	3.8	
BV-5	3.8	
BV-6	3.8	

GW Recovery

	Total Flow (BBLS)	Notes
Tank #37	24159	
Tank #38	116359	
River Terrace		
API		

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GW Remediation Monitoring

- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
- Section 2.F. of Discharge Permit GW-001

Inspector DANNY BURNS **Date** Wednesday, December 21, 2022

Seep 1
Evidence of active Seep?
NO

Seep 2
Evidence of active Seep?
NO

Seep 3
Evidence of active Seep?
NO

Seep 5
Evidence of active Seep?
NO

Jungle Seep (located NE of Tank #38)
Hydrocarbon Odor or Sheen?
NO

Biovent/Air Sparge

	Pressure (PSI)	Notes
Blower	3.8	
BV-1	3.8	
BV-3	3.8	
BV-4	3.8	
BV-5	3.8	
BV-6	3.8	

GW Recovery

	Total Flow (BBLS)	Notes
Tank #37	24,244	
Tank #38	118,353	
River Terrace	NA	
API	NA	

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GW Remediation Monitoring

- Section IV.A.2 July 2007 Consent Order (NMED-HWB)
- Section 2.F. of Discharge Permit GW-001

Inspector Danny Burns **Date** Wednesday, December 28, 2022

Seep 1
Evidence of active Seep?
NO

Seep 2
Evidence of active Seep?
NO

Seep 3
Evidence of active Seep?
NO

Seep 5
Evidence of active Seep?
NO

Jungle Seep (located NE of Tank #38)
Hydrocarbon Odor or Sheen?
NO

Biovent/Air Sparge

	Pressure (PSI)	Notes
Blower	3.8	
BV-1	3.8	
BV-3	3.8	
BV-4	3.8	
BV-5	3.8	
BV-6	3.8	

GW Recovery

	Total Flow (BBLS)	Notes
Tank #37	24,297	
Tank #38	119,301	
River Terrace	NA	
API	NA	

Name: Eric Carroll

Date:10/26/2022

DPE SYSTEM OM DATA SHEET

WESTERN REFINING SOUTHWEST
BLOOMFIELD TERMINAL
MARATHON PETROLEUM CORPORATION

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Electric Pumps

Well ID	Pump Running?		Intake Depth (ft)		DTP* (ft)	DTW (ft)	Timer Setting ON:	Timer Setting OFF:	Line Pressure (psi)	Totalizer (gal)	Pump Saver Status	Vault Condition	
RW-1	(Yes)	No	34.55		—	32.25	~	—	~	—		Good	(Bad)
RW-14	Yes	No										Good	Bad
RW-16	Yes	(No)	—	—	35.15	35.52	—	—	—	—		(Good)	Bad

*If product present, shut down pump and notify DB or DH

Other Notes: Rw-1 NO timer low level switch? Needs new vault top
RW-16 turned off & left out of well due to PSH

Pneumatic Pumps

Well ID	Pump Running?		Intake Depth (ft)		DTP (ft)	DTW (ft)	Timer Setting ON:	Timer Setting OFF:	Supply Pressure (psi)	Line Pressure (psi)	Totalizer (gal)	Vault Condition	
RW-2	(Yes)	No	28.14	30.94	27.02	27.31	0.7	0.4	130	—	—	Good	(Bad)
RW-3	Yes	No										Good	Bad
RW-4	Yes	No	NO	Power	—						→	(Good)	Bad
RW-9	Yes	No										Good	Bad
RW-15	(Yes)	No			36.87	36.90	8	8	106	—		Good	(Bad)
RW-17	(Yes)	No	36.3	—	—	33.50	7	2	95	—	—	(Good)	Bad
RW-19	Yes	(No)	—	—	~	37.75	4	6	broke	—	—	(Good)	Bad
RW-20	(Yes)	No					0.6	0.8	broke	—	—	(Good)	Bad
RW-22	Yes	No										Good	Bad
RW-23	(Yes)	No	24.26	27.33	—	23.88	4	6	100	—	—	(Good)	Bad
RW-43	Yes	No	Pump removed out of service									Good	Bad
MW-56	Yes	(No)										Good	Bad
MW-57	(Yes)	No										Good	Bad
MW-58	Yes	(No)										Good	Bad

Pumps that need cleaning:

Coalescing filters that need replacement:

Other Notes: Rw-19 no pump body, Rw-2 needs insulation & screened

Xitech Skimmers

Well ID	Pump Running?		Screen Interval (ft)		DTP (ft)	DTW (ft)	*Product Thickness (ft)	Controller Setting min/hr	Line Pressure (psi)	Totalizer (gal)	Vault Condition	
RW-28	(Yes)	No						x			Good	Bad
RW-42	Yes	(No)	—	—	27.40	27.56	0.16	x	—	—	Good	(Bad)

*If product thickness in well is >1 ft, increase controller setting

Pumps that need hydrophobic filters:

Pumps that need air logic valves:

Other Notes:

Geotech Guzzler

Well ID	Pump Running?		Hour Meter (hrs)		DTP (ft)	DTW (ft)	Vacuum (in w.c.)	Supply Pressure (psi)	Totalizer (gal)	Vault Condition	
MW-55	Yes	(No)								Good	Bad

Other Notes:

Name: Eric Carroll

Date: 11/23/2022

DPE SYSTEM OM DATA SHEET

WESTERN REFINING SOUTHWEST
BLOOMFIELD TERMINAL
MARATHON PETROLEUM CORPORATION

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Electric Pumps

Well ID	Pump Running?		Intake Depth (ft)		DTP* (ft)	DTW (ft)	Timer Setting ON:	Timer Setting OFF:	Line Pressure (psi)	Totalizer (gal)	Pump Saver Status	Vault Condition	
RW-1	(Yes)	No	42.80		—	33.59	NO Timer		—	—	OK	(Good)	Bad
RW-14	Yes	(No)	—	—	—	39.89	—	—	90	—		Good	(Bad)
RW-16	Yes	(No)	Removed		34.61	35.10	—	—	90	—	ok	(Good)	Bad

*If product present, shut down pump and notify DB or DH

Other Notes: PSH in RW-16

Pneumatic Pumps

Well ID	Pump Running?		Intake Depth (ft)		DTP (ft)	DTW (ft)	Timer Setting ON:	Timer Setting OFF:	Supply Pressure (psi)	Line Pressure (psi)	Totalizer (gal)	Vault Condition	
RW-2	(Yes)	No	28.14	30.94	27.81	27.60	0.6	0.4	125	0	—	Good	(Bad)
RW-3	Yes	(No)				23.33						(Good)	Bad
RW-4	Yes	(No)		NO	Power							(Good)	Bad
RW-9	Yes	(No)										Good	Bad
RW-15	(Yes)	No	37.33	38.22	36.91	36.93	8	8	NP	NP	—	(Good)	Bad
RW-17	(Yes)	No	36.3	—	—	33.82	6	2	98	NP	—	Good	(Bad)
RW-19	Yes	No	Needs	pump		30.77	—	—	broke	—	—	(Good)	Bad
RW-20	(Yes)	No	25.47		21.01	21.59	0.6	0.8	broke	NP	—	(Good)	Bad
RW-22	Yes	(No)										Good	Bad
RW-23	(Yes)	No										(Good)	Bad
RW-43	Yes	(No)	Out of Service Xitech controller in small box									(Good)	Bad
MW-56	Yes	(No)	Discharge sight glass broke									Good	Bad
MW-57	(Yes)	No	22.20	21.18	19.80	20.91	4	6?4	broke	NP	—	(Good)	Bad
MW-56	Yes	(No)	Air	shive	off	needs	coalescing	filter				(Good)	Bad

Pumped Rescd MW-57 @ 21.18'

Pumps that need cleaning: RW-23 ~~RW-15~~ Thick black film clogging Pump inlet

Coalescing filters that need replacement: MW-58

Other Notes: RW-2 missing check valve (discharge) & RW-15

NP: Not present

Xitech Skimmers

Well ID	Pump Running?		Screen Interval (ft)		DTP (ft)	DTW (ft)	*Product Thickness (ft)	Controller Setting min/hr	Line Pressure (psi)	Totalizer (gal)	Vault Condition	
RW-28	(Yes)	No	28.00	30.5	27.52	29.73	0.01	x	90	—	Good	(Bad)
RW-42	Yes	(No)	—	—	27.44	27.60	0.16	x	—	—	(Good)	Bad

*If product thickness in well is >1 ft, increase controller setting

Pumps that need hydrophobic filters: RW-42

Pumps that need air logic valves:

Other Notes:

Geotech Guzzler

Well ID	Pump Running?		Hour Meter (hrs)		DTP (ft)	DTW (ft)	Vacuum (in w.c.)	Supply Pressure (psi)	Totalizer (gal)	Vault Condition	
MW-55	Yes	(No)								(Good)	Bad

Other Notes: Need to call Geotech to identify problem

Need a way to adjuss pump depth, something to hold tubing / line in well boxes

Name: Eric Carroll

Date: 12/14/2022

DPE SYSTEM OM DATA SHEET

WESTERN REFINING SOUTHWEST
BLOOMFIELD TERMINAL
MARATHON PETROLEUM CORPORATION

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Electric Pumps

Well ID	Pump Running?		Intake Depth (ft)		DTP* (ft)	DTW (ft)	Timer Setting ON:	Timer Setting OFF:	Line Pressure (psi)	Totalizer (gal)	Pump Saver Status	Vault Condition	
RW-1	(Yes)	No	42.80		[redacted]	33.61			—	—	OK	(Good)	Bad
RW-14	Yes	(No)				34.91						Good	(Bad)
RW-16	Yes	(No)	Removed		34.69	35.13	—	✓	90	—		(Good)	Bad

*If product present, shut down pump and notify DB or DH

Other Notes: Turn on light in RW-1

Pneumatic Pumps

Well ID	Pump Running?		Intake Depth (ft)		DTP (ft)	DTW (ft)	Timer Setting ON:	Timer Setting OFF:	Supply Pressure (psi)	Line Pressure (psi)	Totalizer (gal)	Vault Condition	
RW-2	Yes	No	28.04	30.94	27.36	27.61	0.6	0.4	130	0	—	(Good)	Bad
RW-3	Yes	No										Good	Bad
RW-4	Yes	(No)	—	—	—	—	—	—	—	—	—	(Good)	Bad
RW-9	Yes	(No)	Needs	new	timer							Good	(Bad)
RW-15	(Yes)	No	37.33	38.22	36.94	36.96	8	8				Good	(Bad)
RW-17	(Yes)	No	36.3	—	—	33.88	6	2	100	—	—	(Good)	Bad
RW-19	Yes	(No)	—	—		30.77	—	—	broke	—	—	(Good)	Bad
RW-20	(Yes)	No	25.47	—	21.10	21.56	6	4	broke	—	—	(Good)	Bad
RW-22	Yes	(No)			26.94	27.63						Good	Bad
RW-23	Yes	(No)	Cracked	check valve					Ice in discharge			(Good)	Bad
RW-43	Yes	(No)	xitech control box in box									(Good)	Bad
MW-56	Yes	(No)										(Good)	Bad
MW-57	(Yes)	No	21.18		19.84	20.96	5	3	gauge broke			(Good)	Bad
MW-58	Yes	(No)	—	—	—	—	—	—	—	—	—	(Good)	Bad

Pumps that need cleaning:

Coalescing filters that need replacement: MW-58 RW-22 needs new red hat

Other Notes: RW-2 Box needs cleaned
RW-17 & RW-15 needs check valve replace & RW-2 & MW-56

Xitech Skimmers

Well ID	Pump Running?		Screen Interval (ft)		DTP (ft)	DTW (ft)	*Product Thickness (ft)	Controller Setting min/hr	Line Pressure (psi)	Totalizer (gal)	Vault Condition	
RW-28	(Yes)	No	27.70	30.70	29.56	29.60	0.04	x	90		(Good)	Bad
RW-42	Yes	(No)						x			(Good)	Bad

*If product thickness in well is >1 ft, increase controller setting

Pumps that need hydrophobic filters:

Pumps that need air logic valves:

Other Notes: RW-42 NO controller

Geotech Guzzler

Well ID	Pump Running?		Hour Meter (hrs)		DTP (ft)	DTW (ft)	Vacuum (in w.c.)	Supply Pressure (psi)	Totalizer (gal)	Vault Condition	
MW-55	Yes	(No)								Good	Bad

Other Notes:

lights MW-57

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APPENDIX E

Hydrographs and Time-Series Graphs

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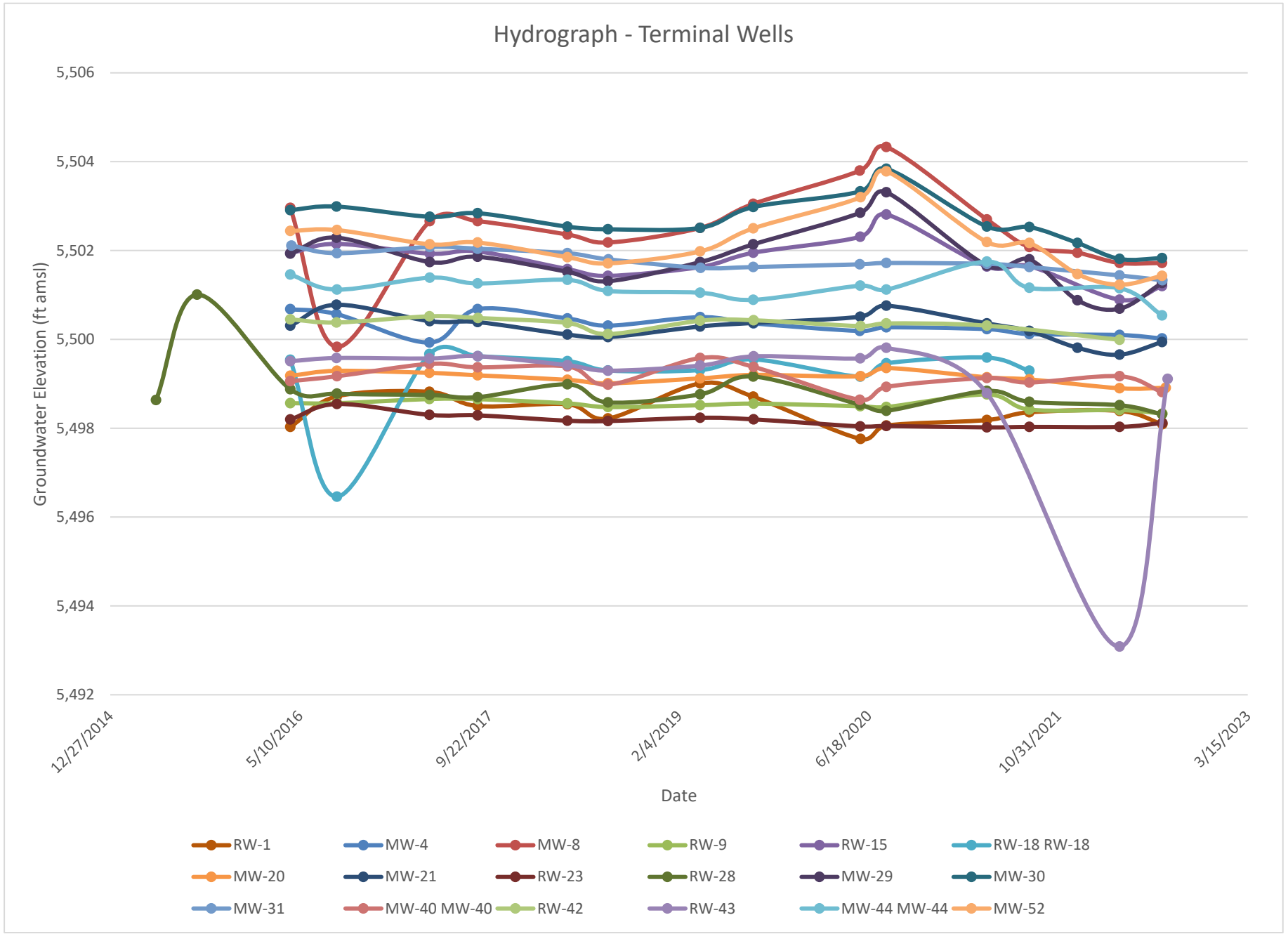

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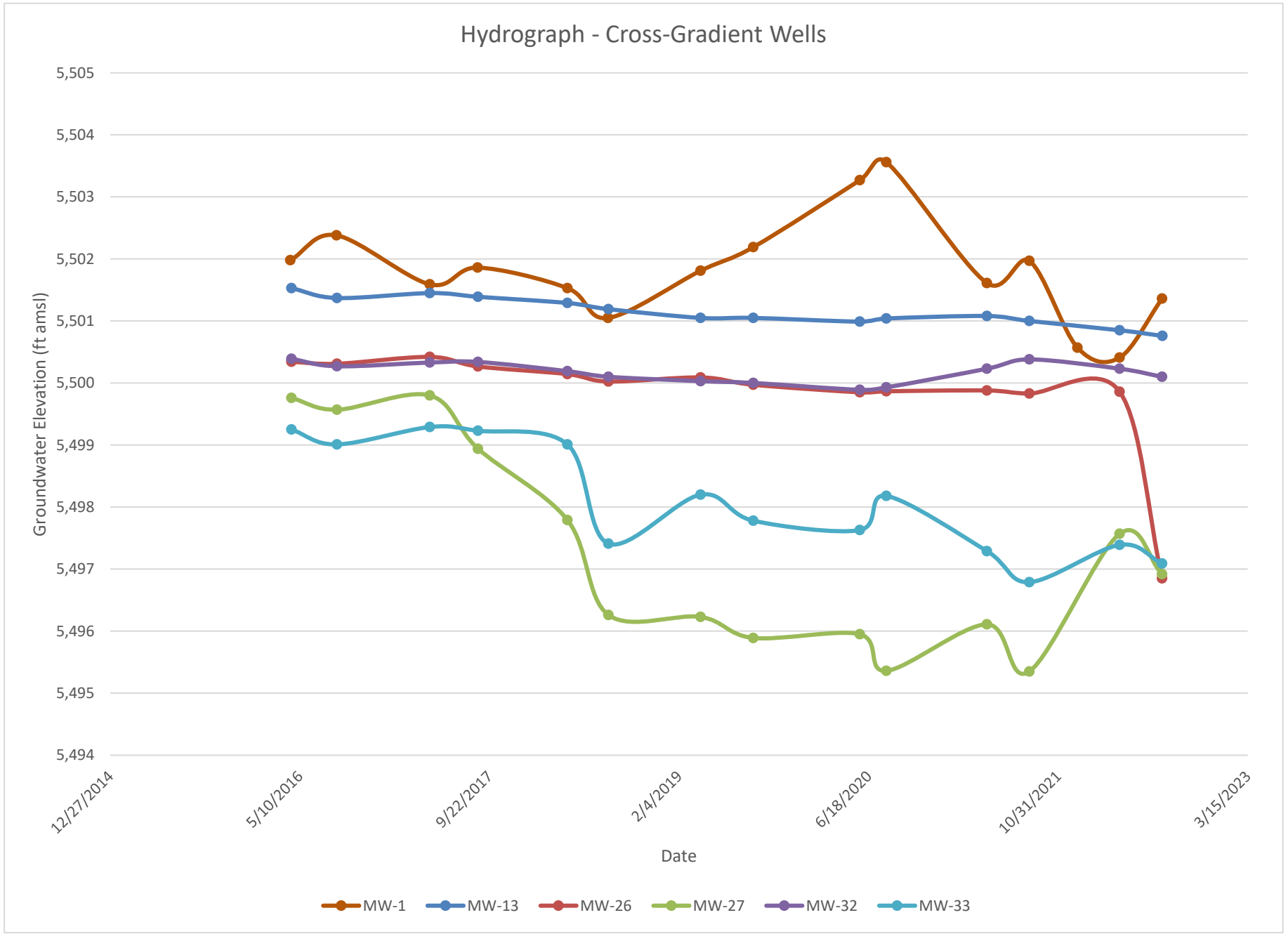

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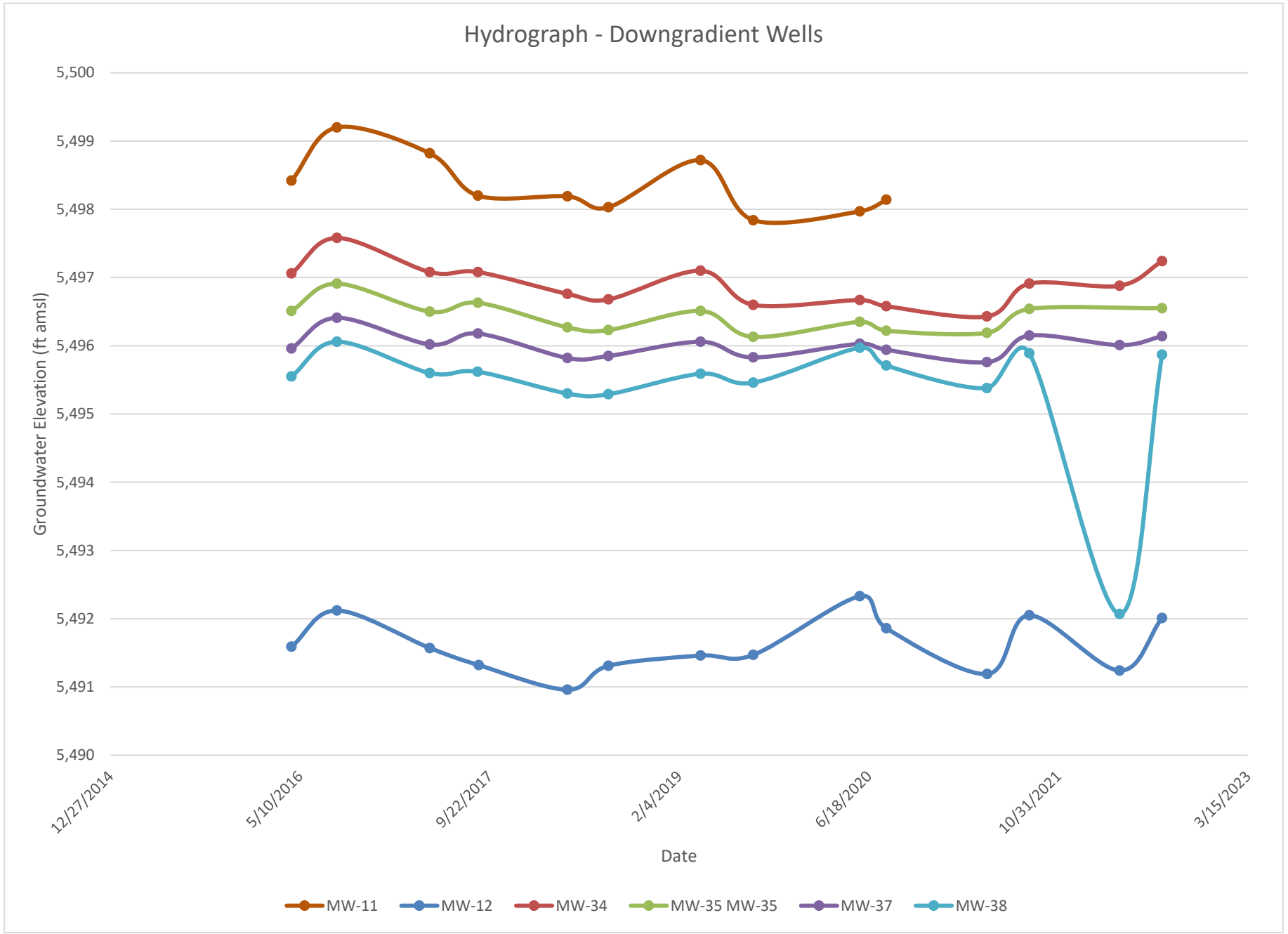

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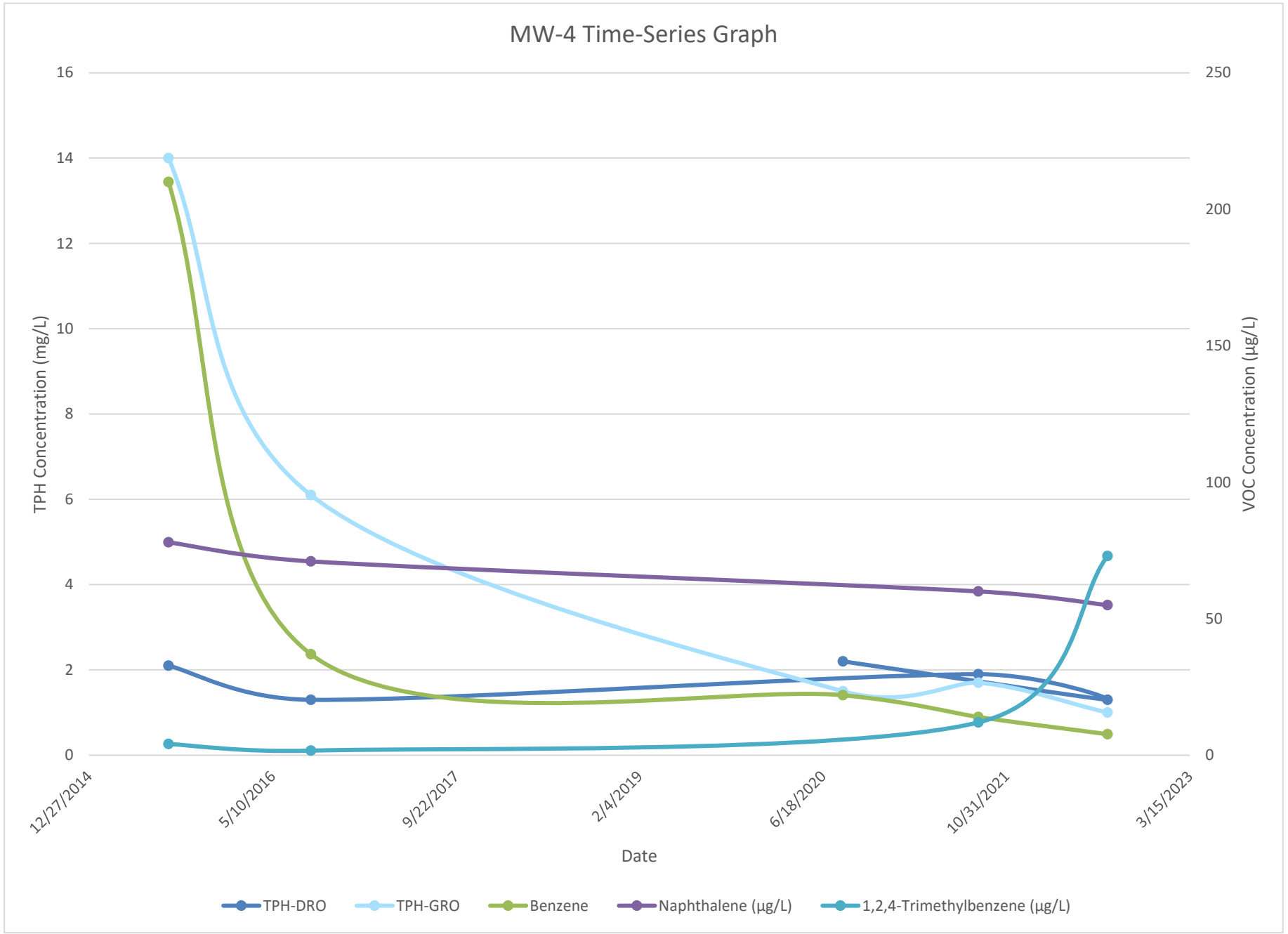

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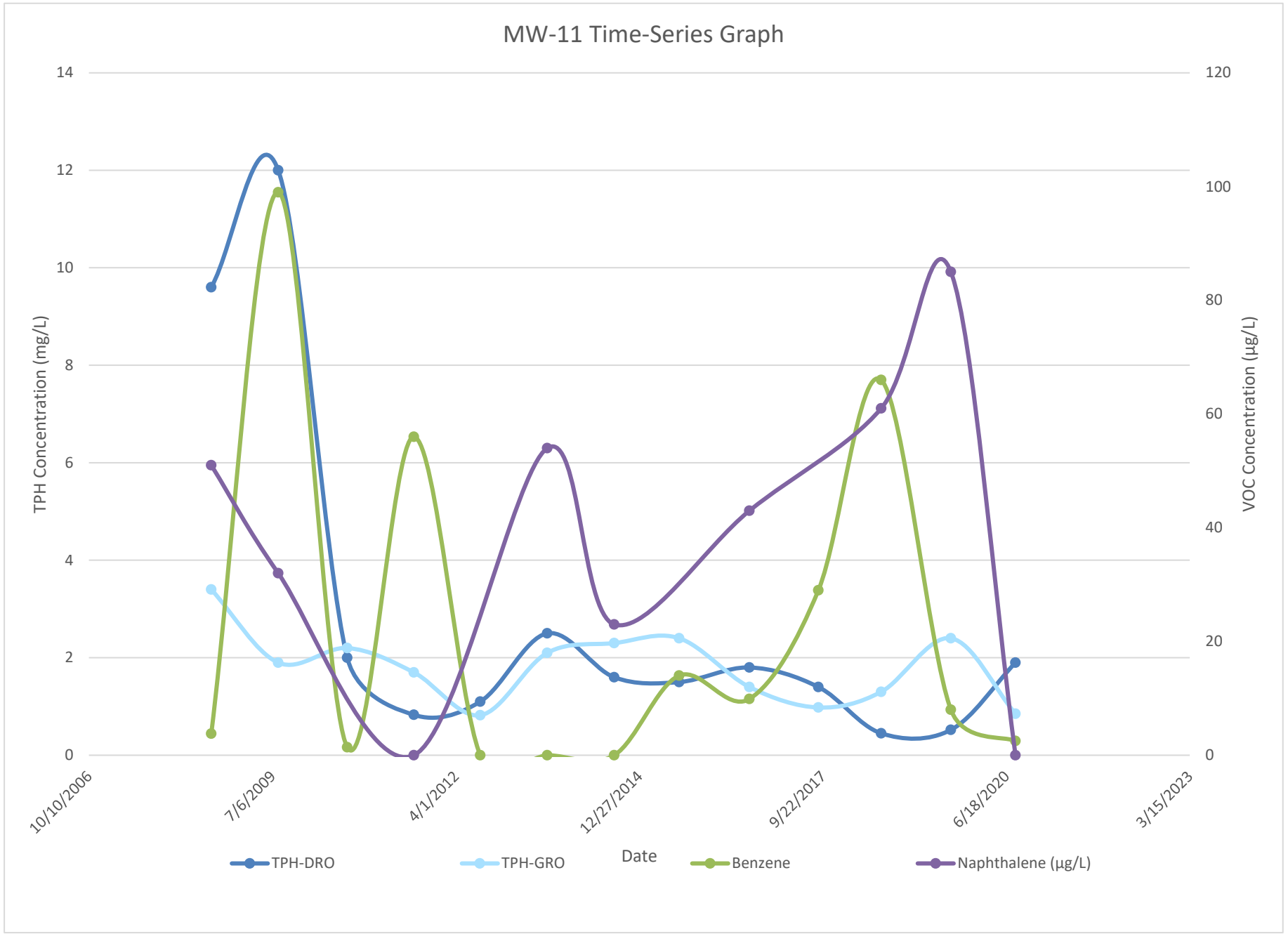

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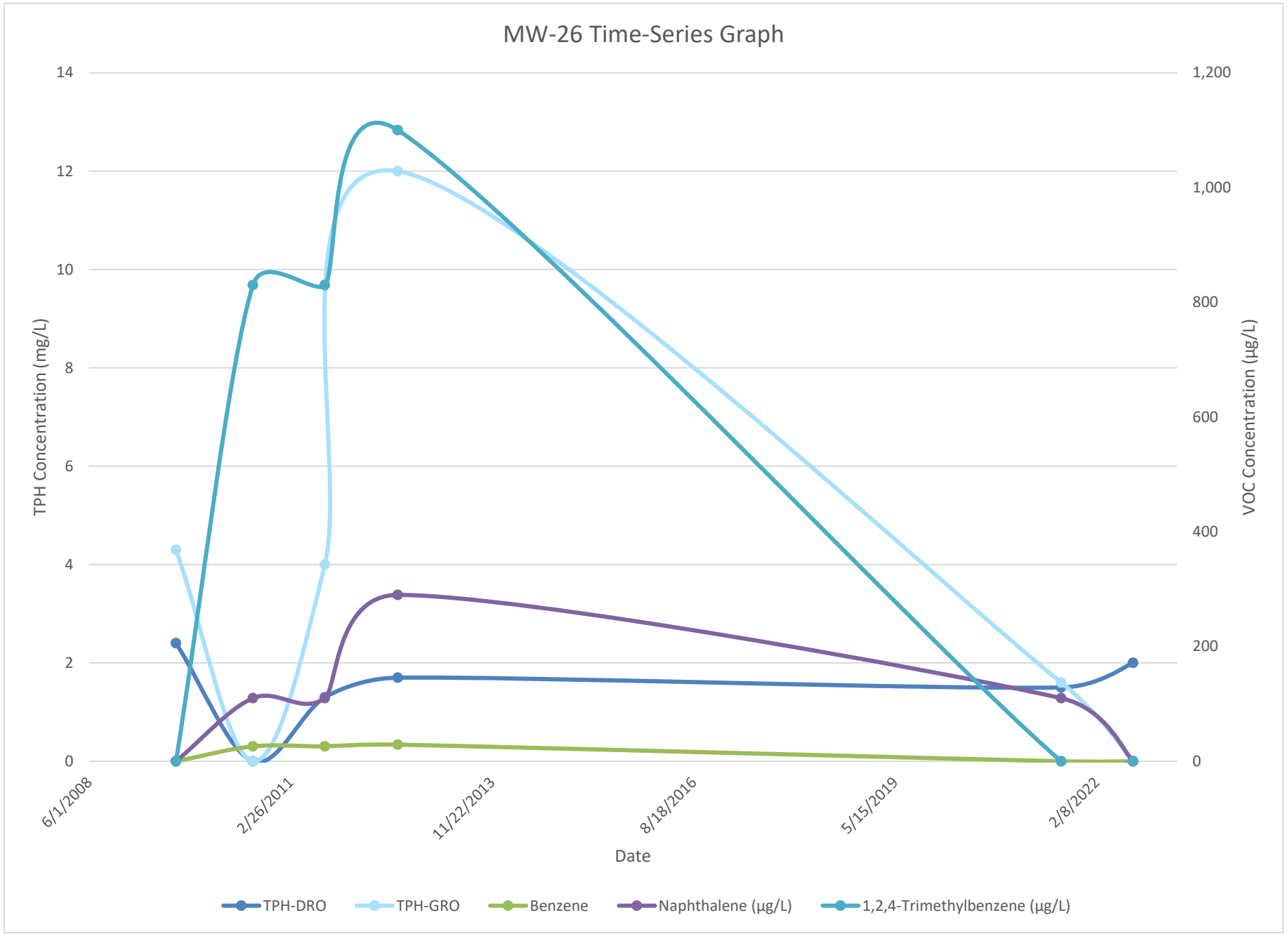

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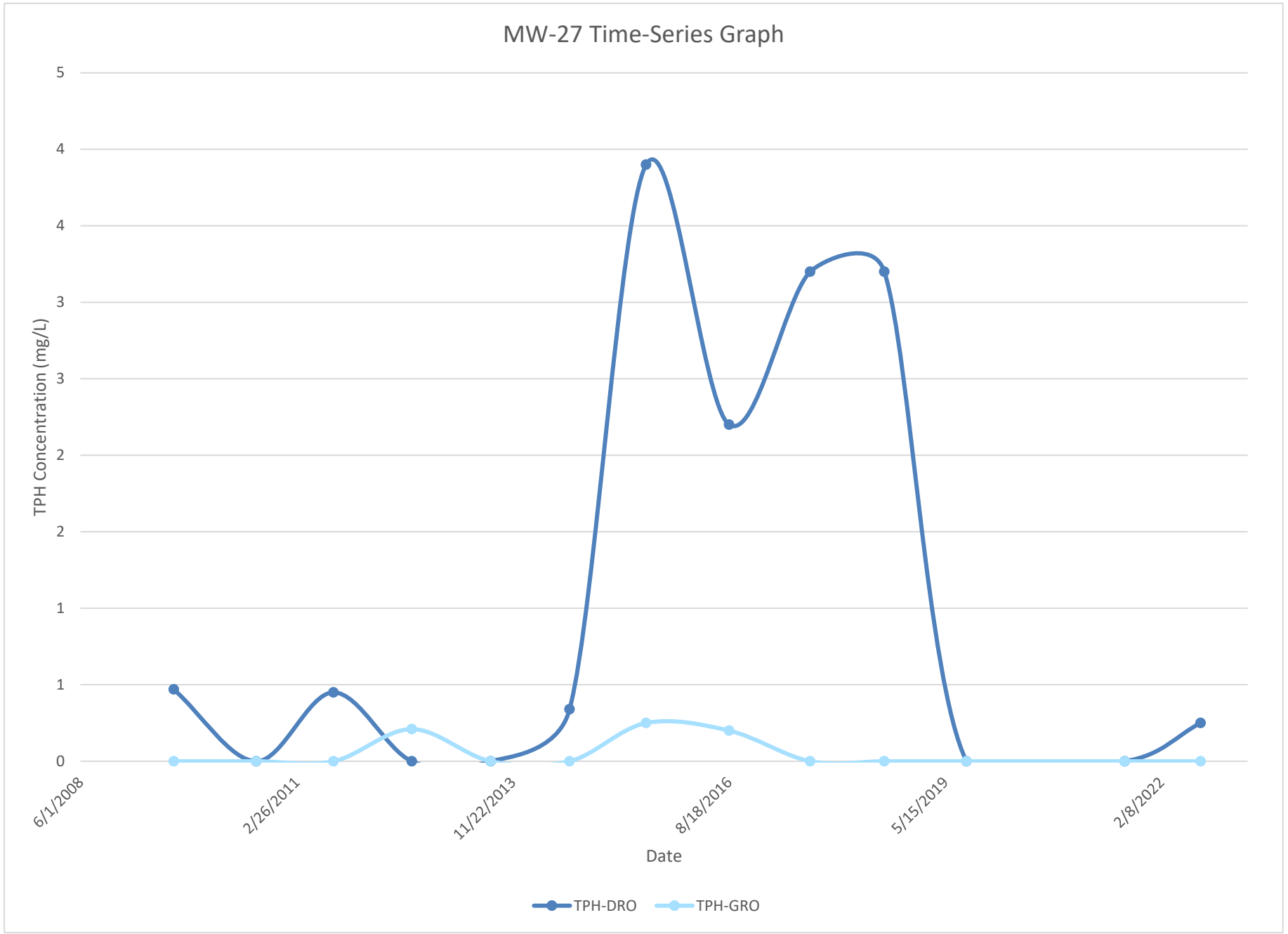

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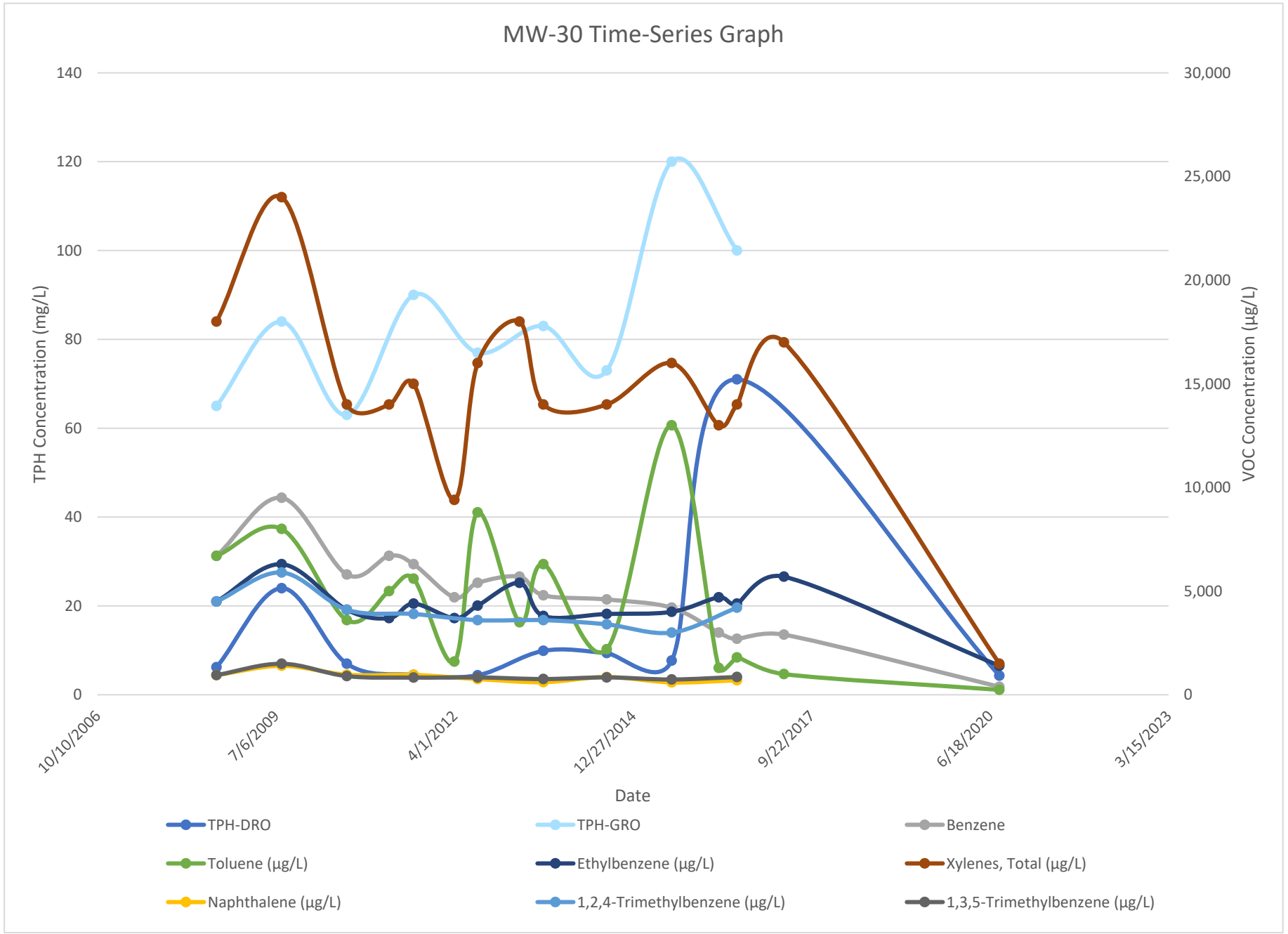

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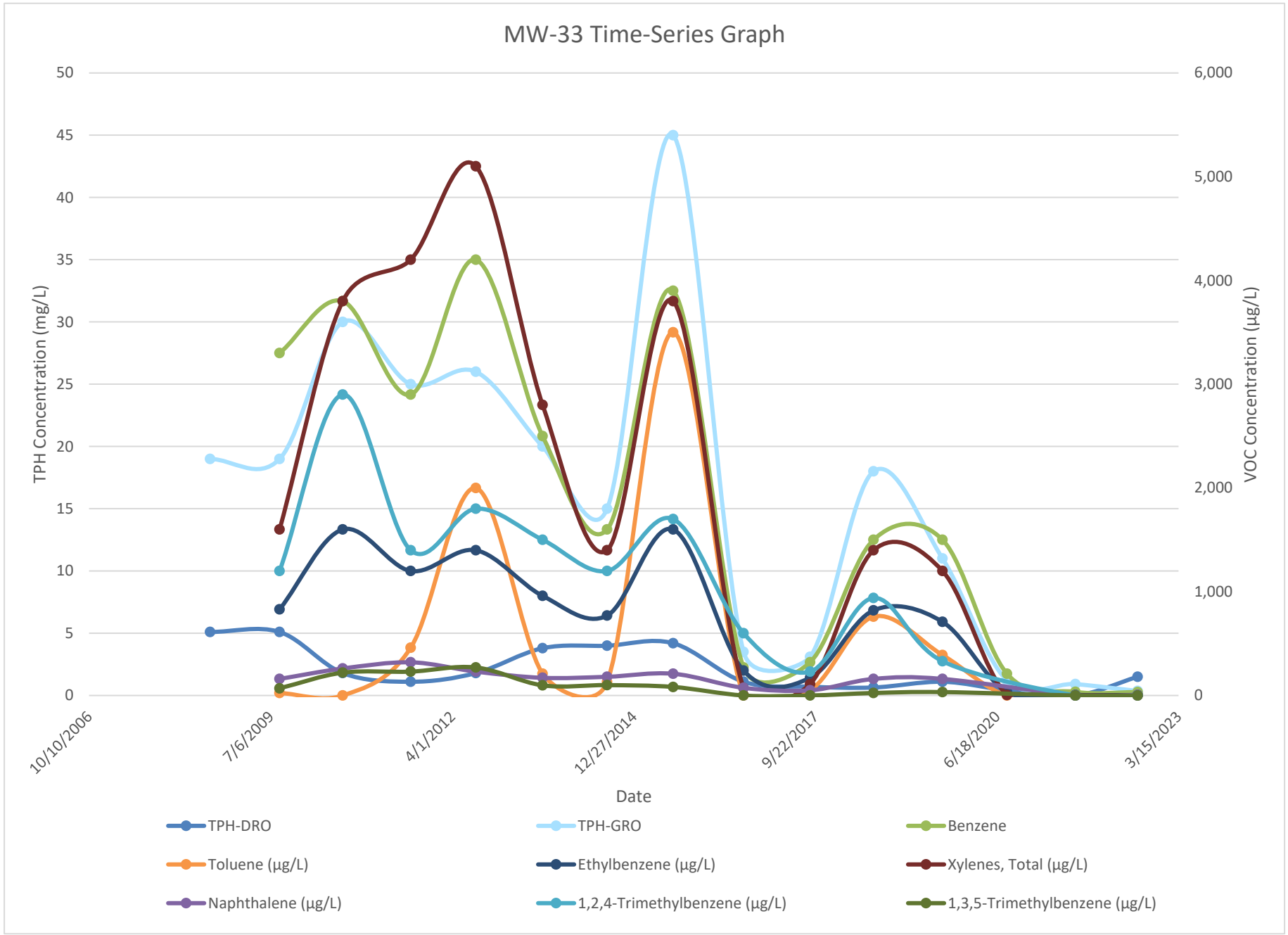

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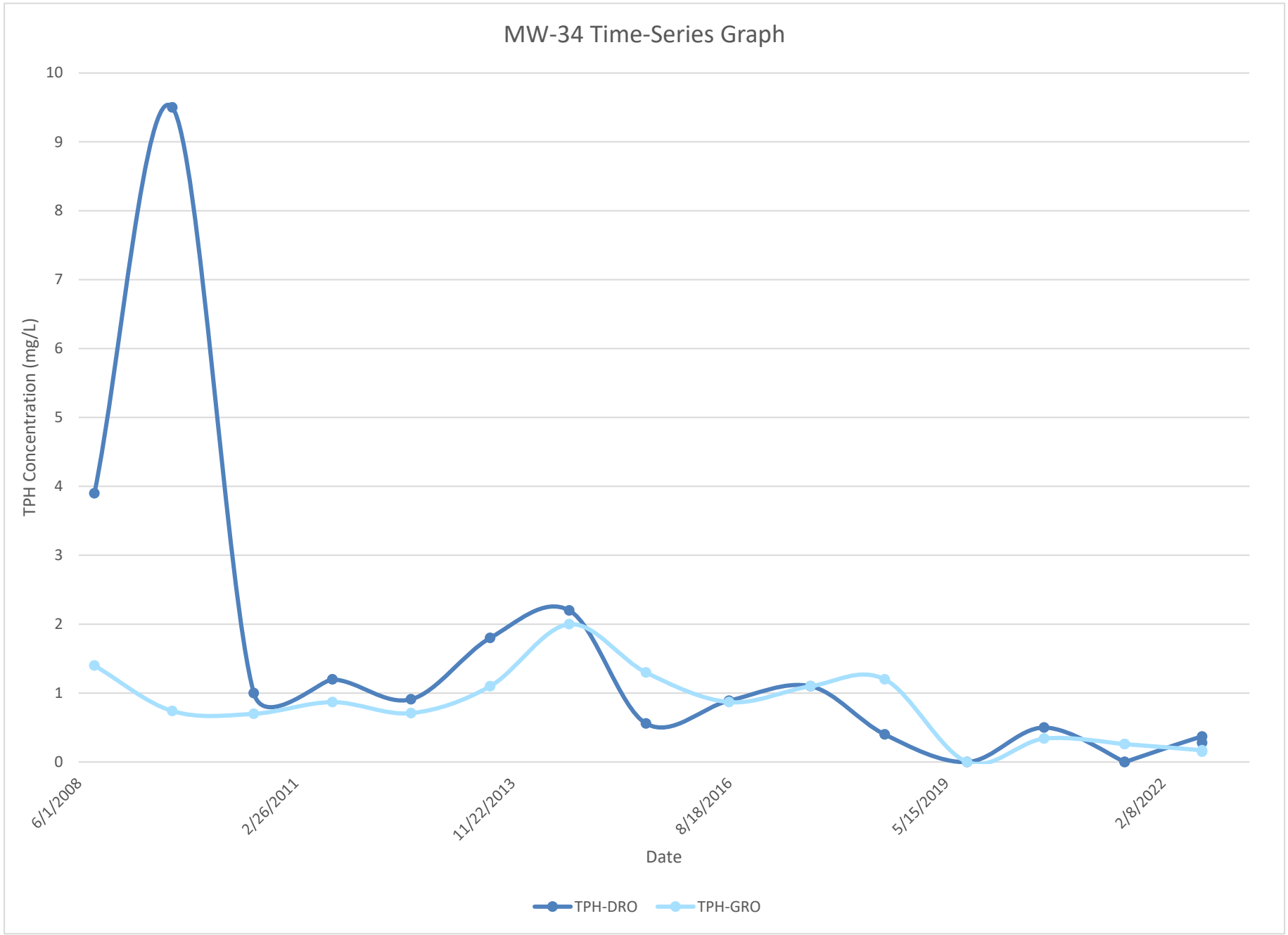

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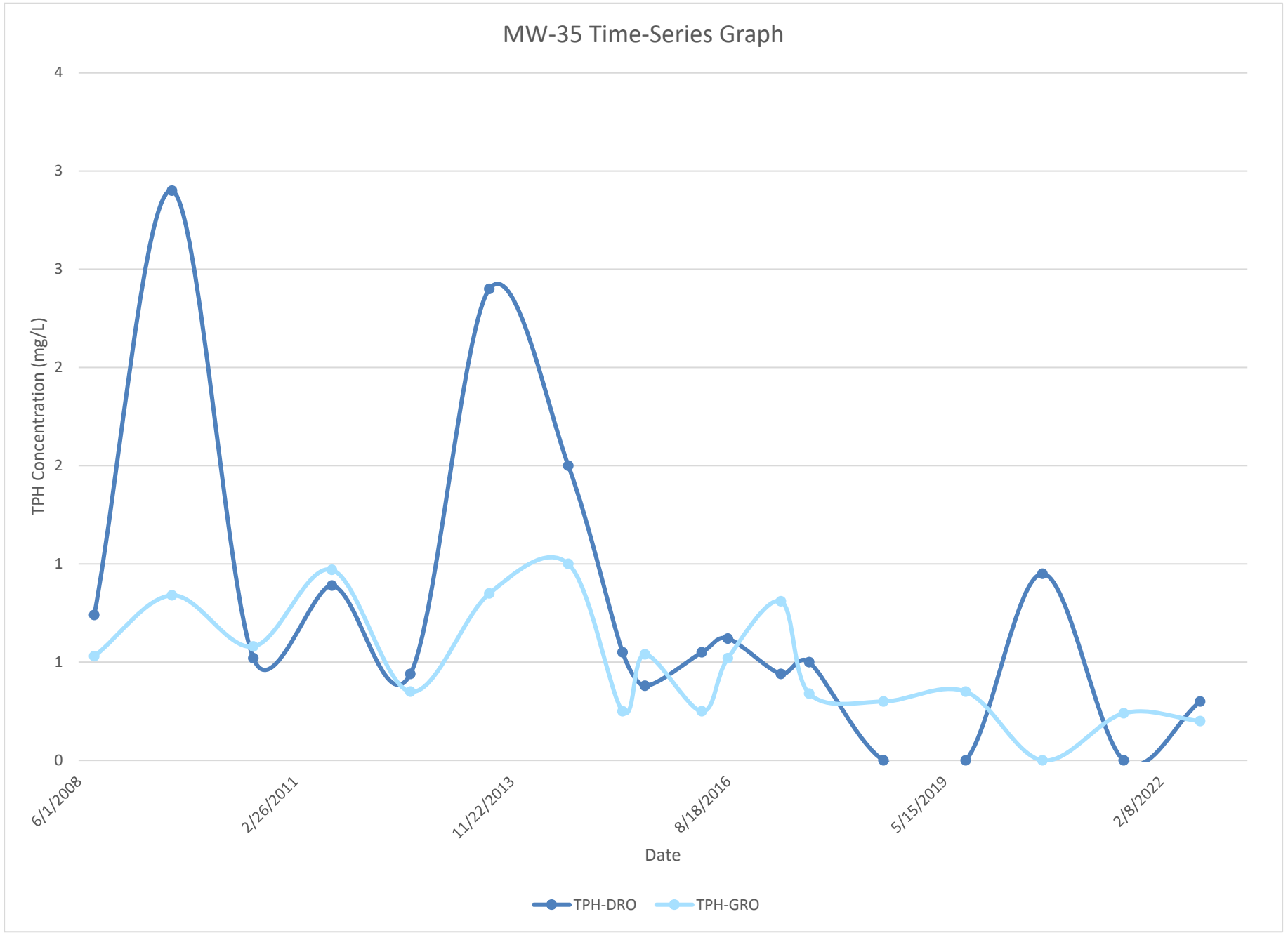

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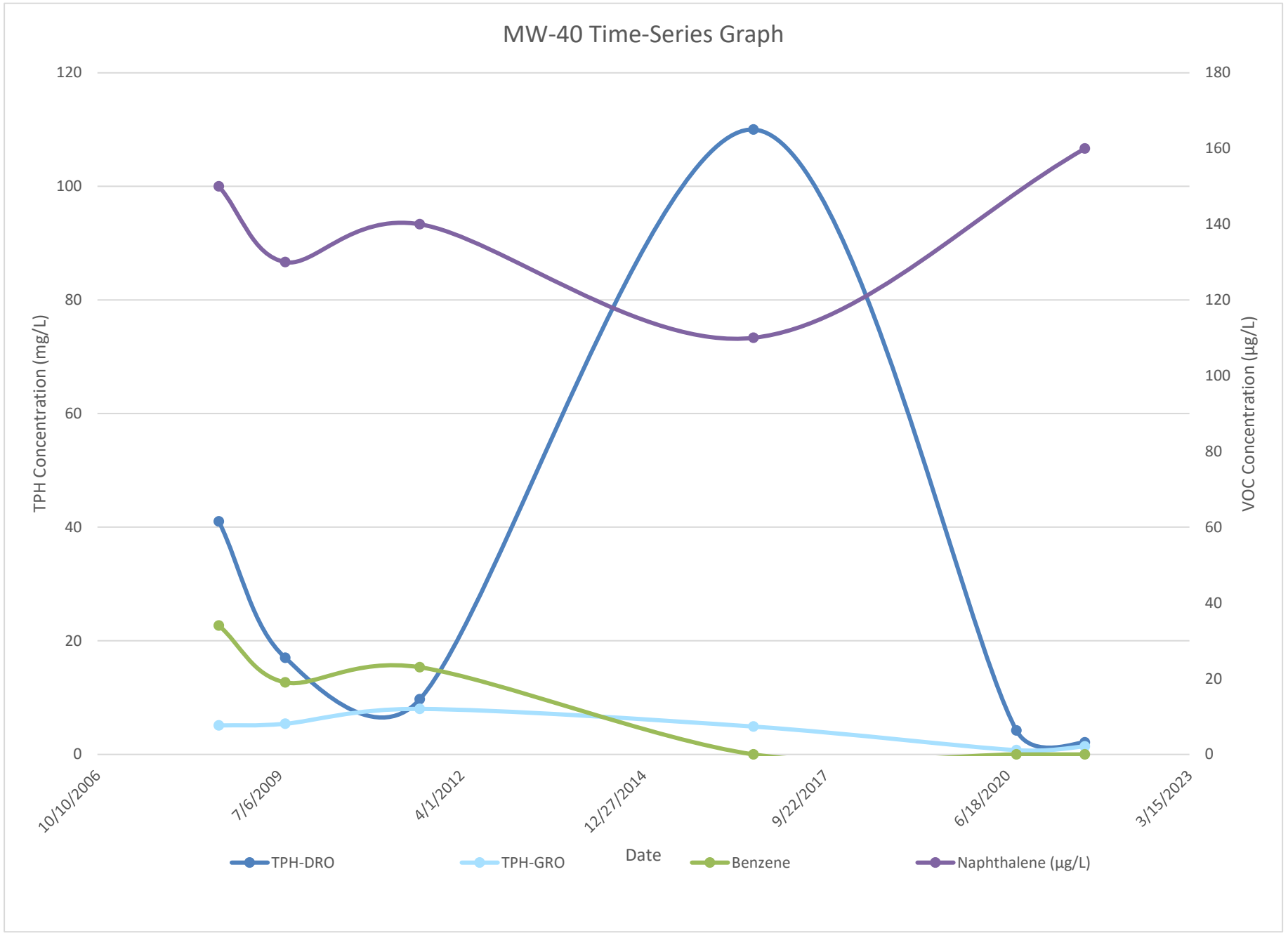

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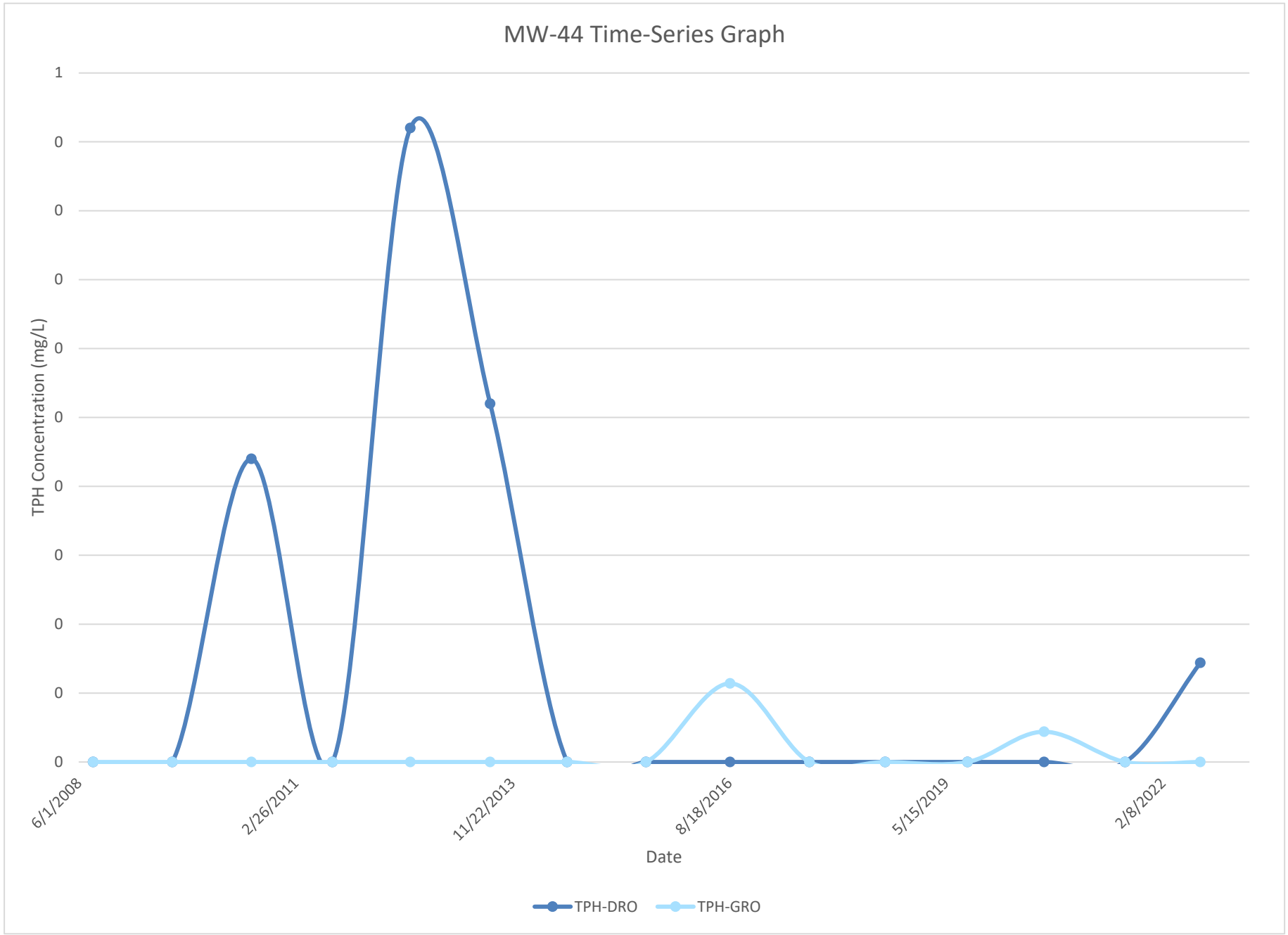

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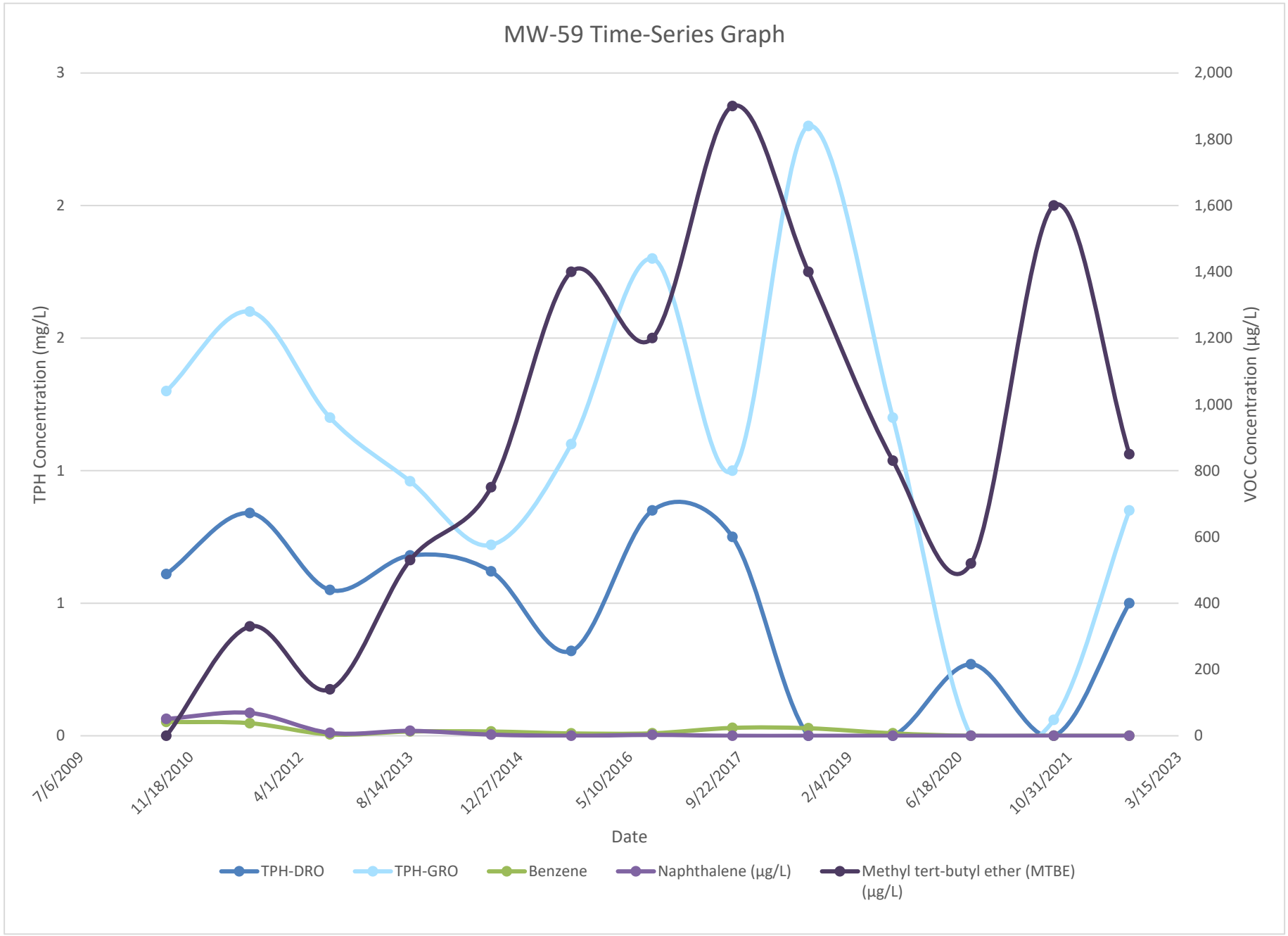

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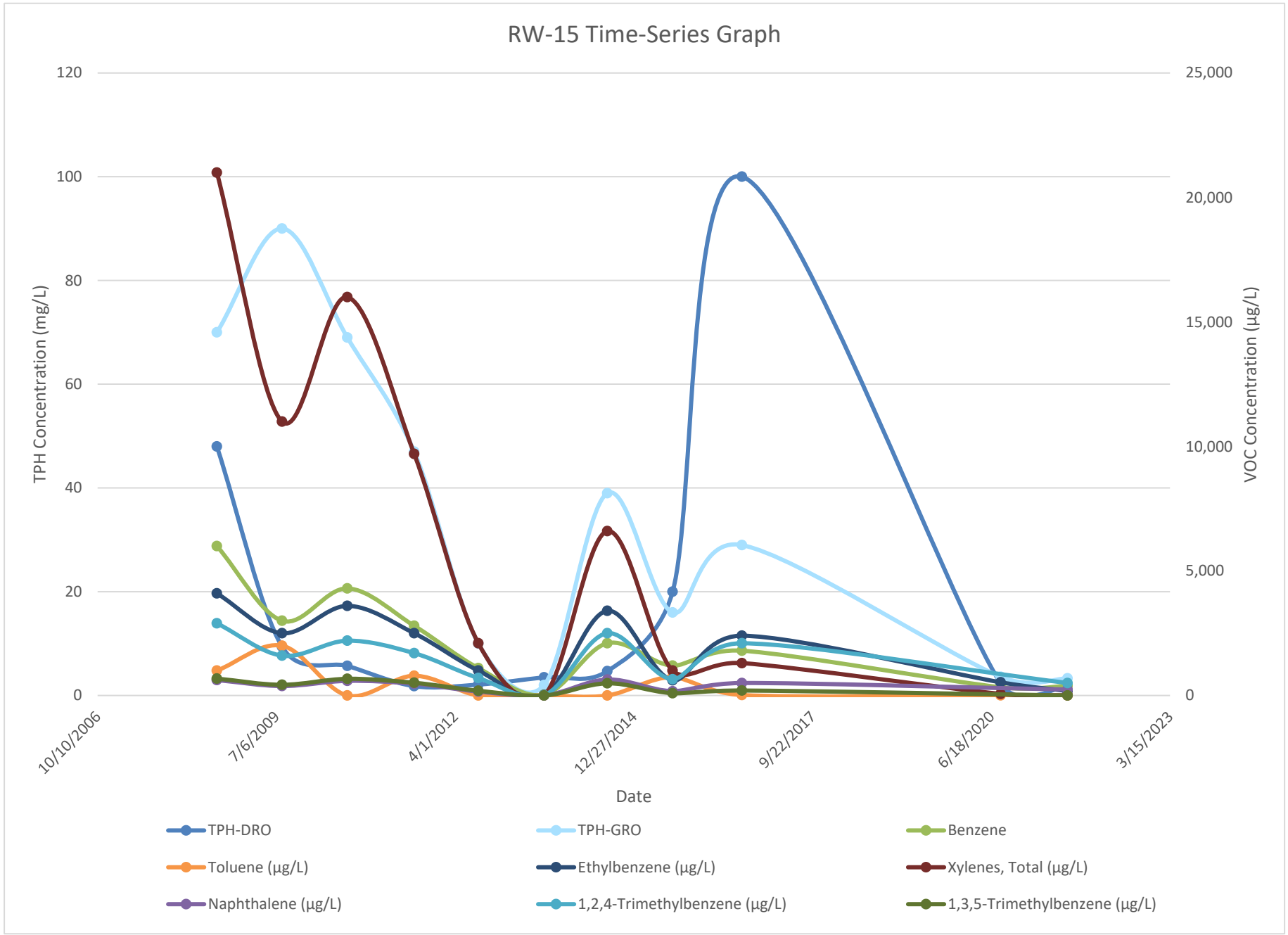

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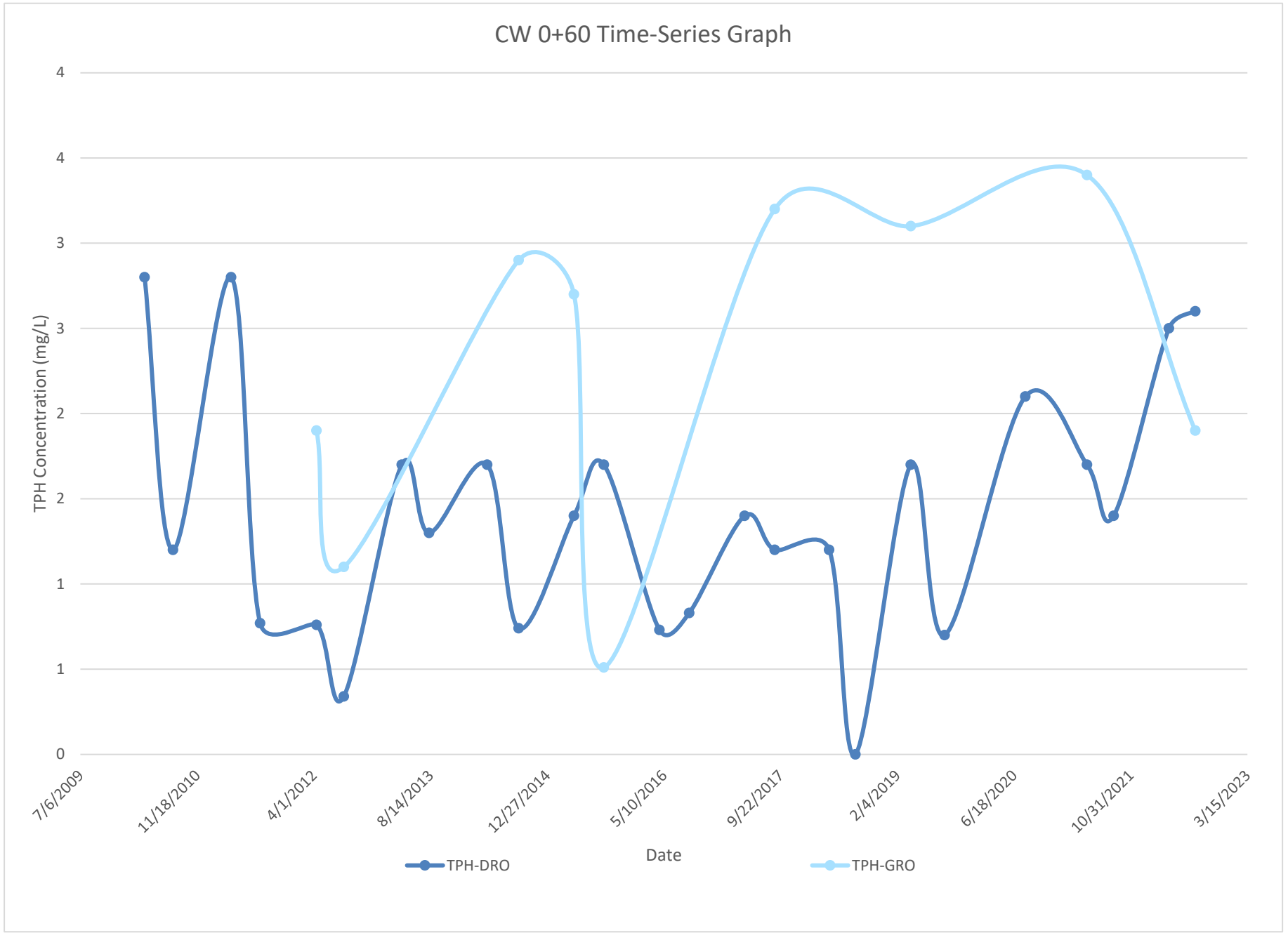

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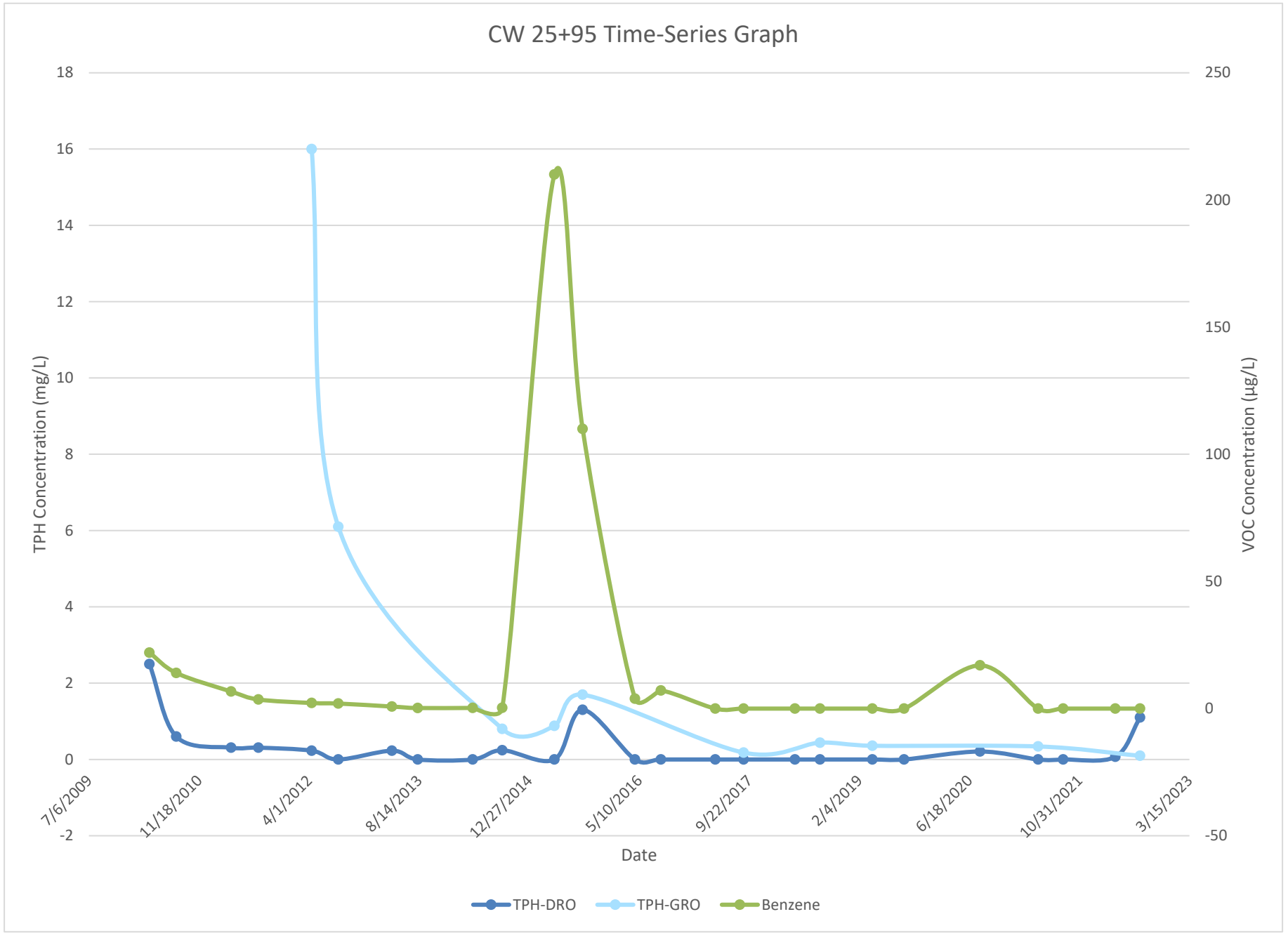

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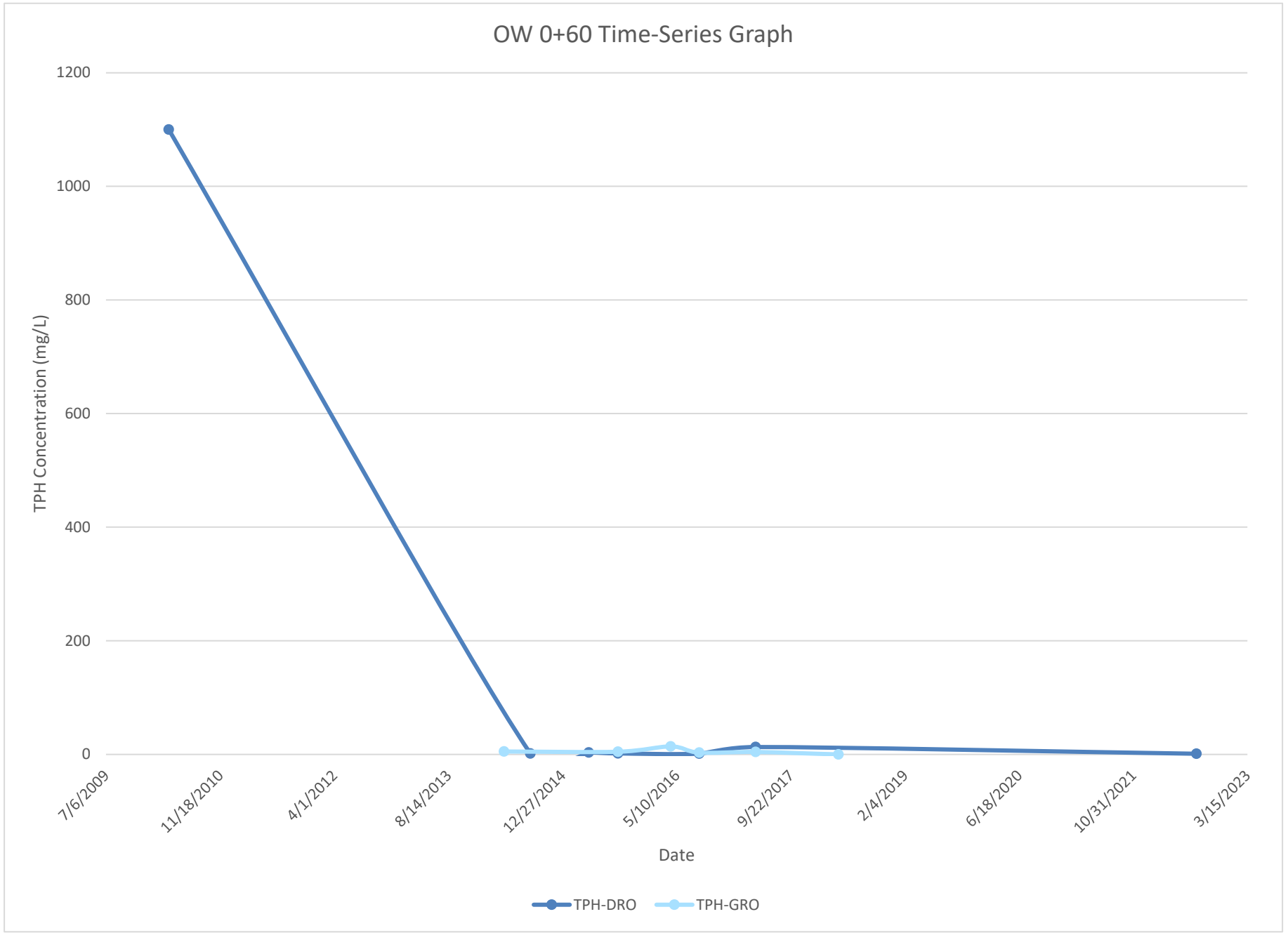

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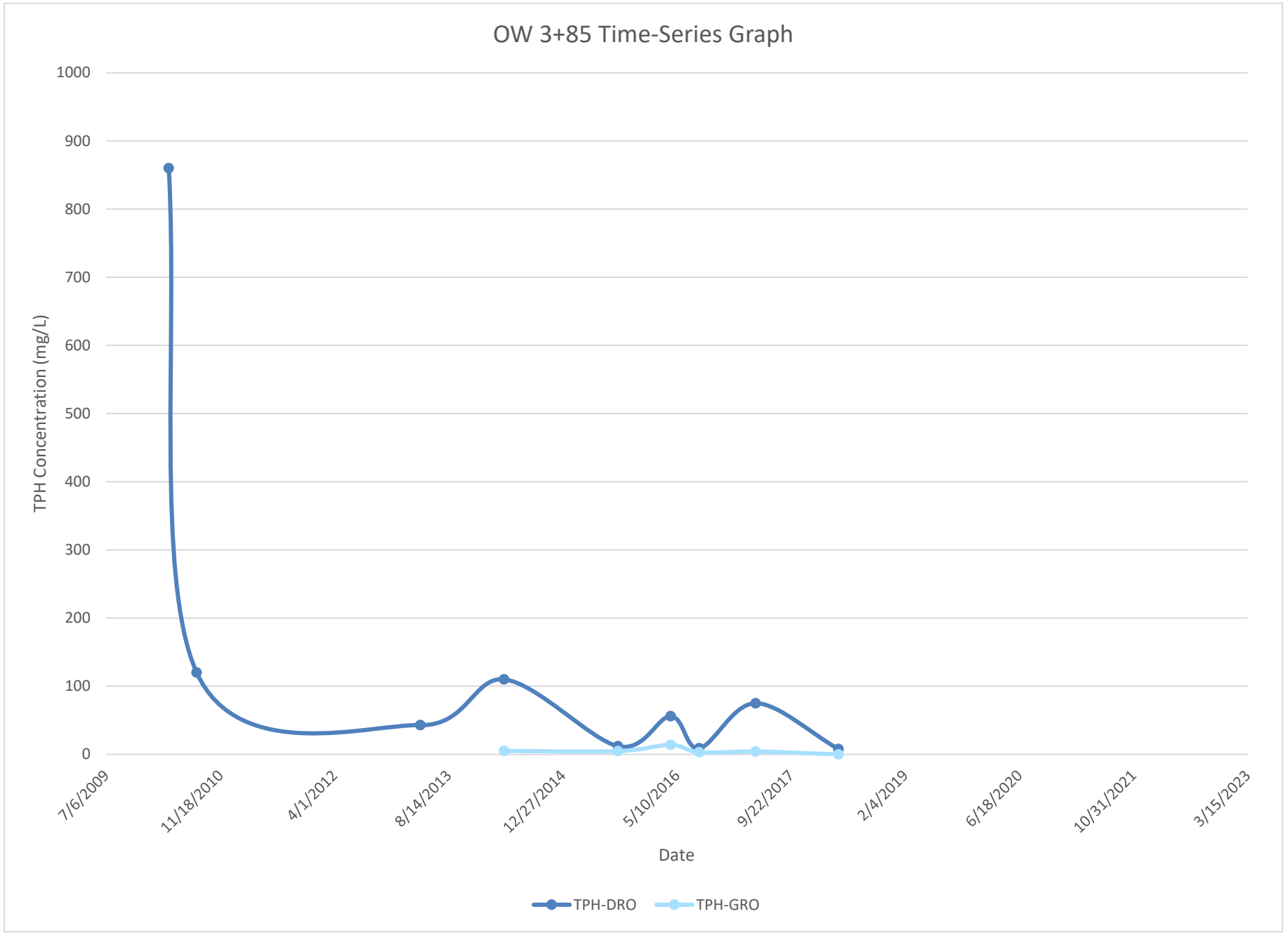

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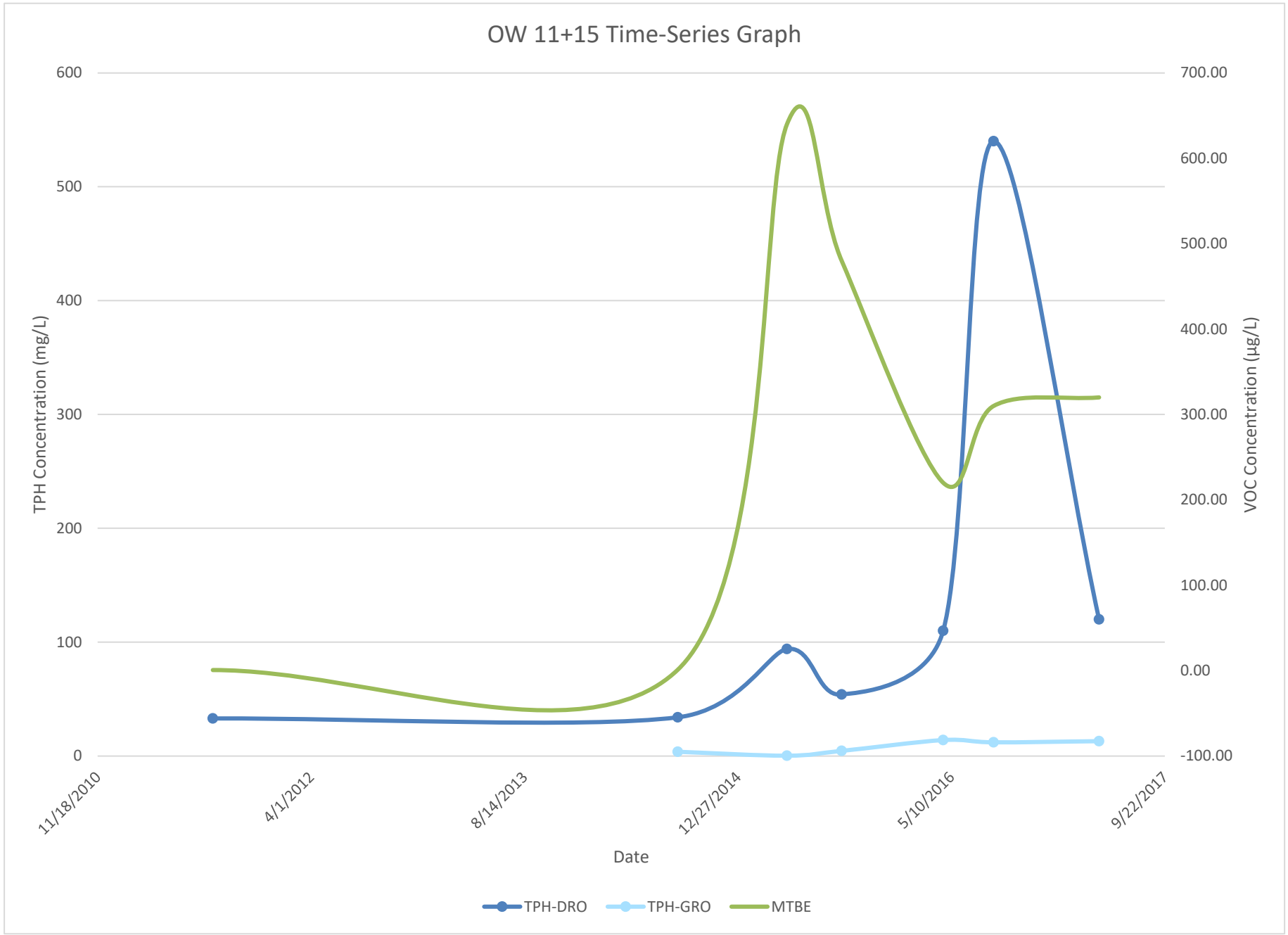

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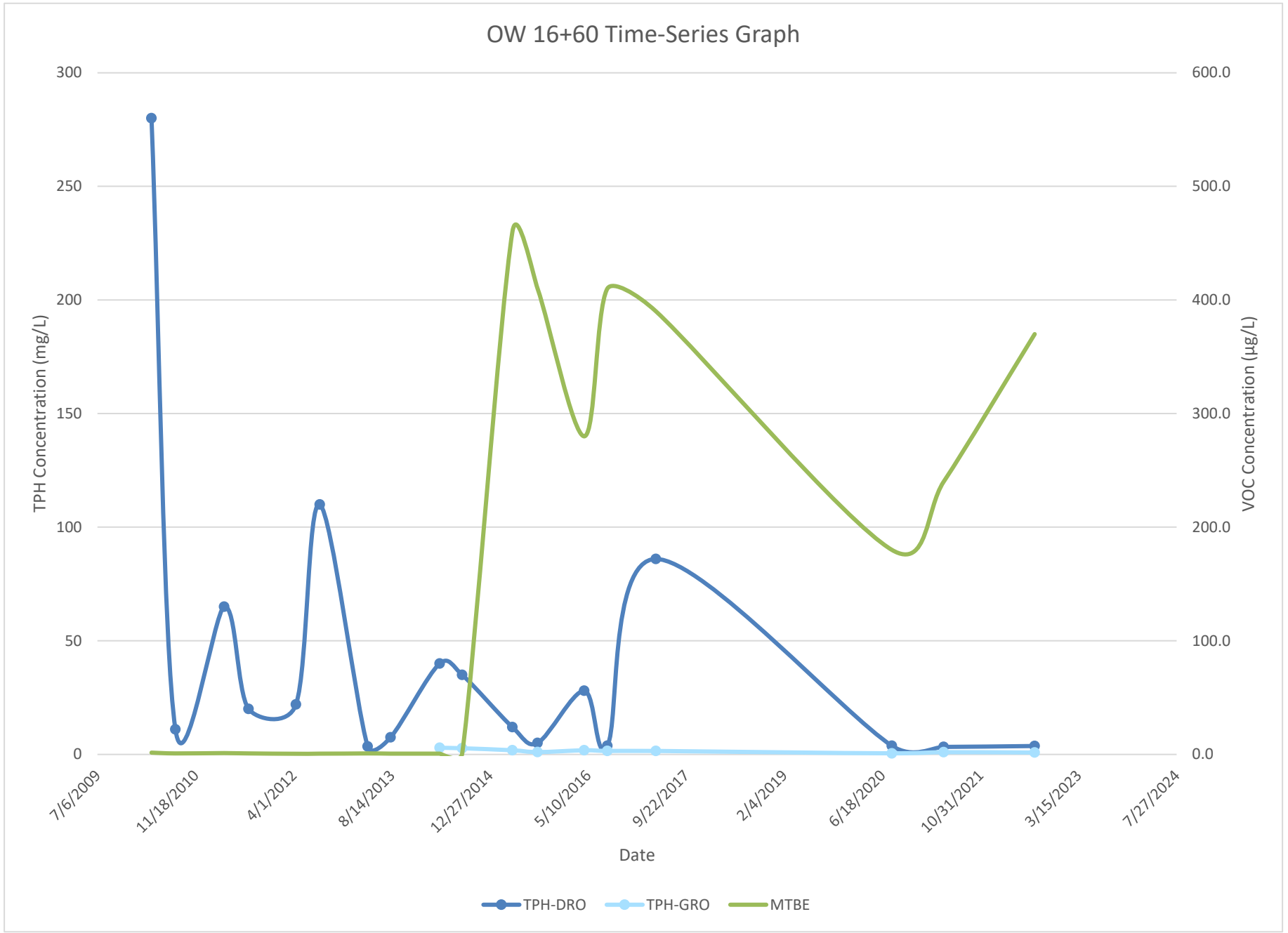

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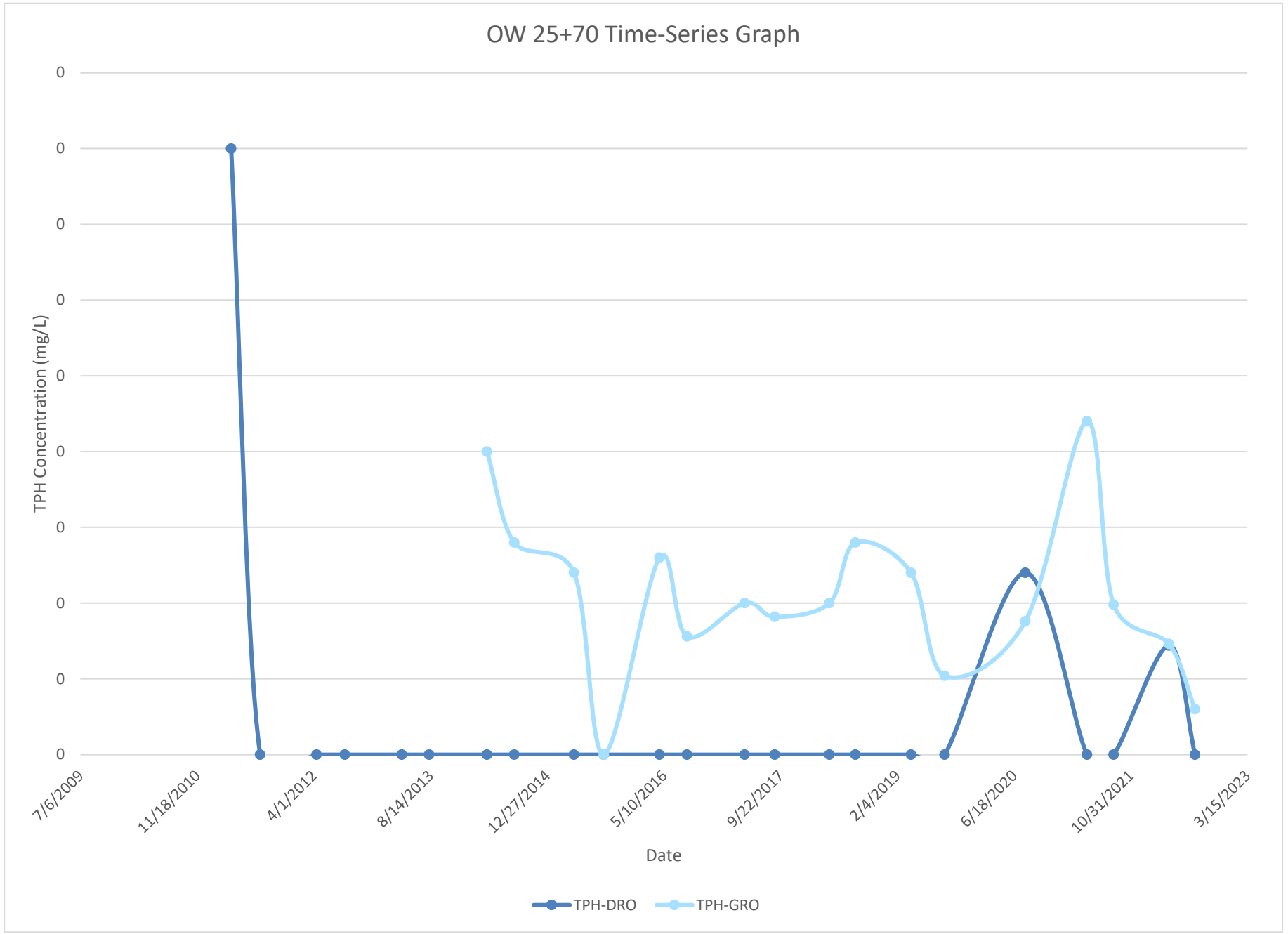

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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811 S. First St., Artesia, NM 88210
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District III
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Phone:(505) 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 217062

CONDITIONS

Operator: Western Refining Southwest LLC 539 South Main Street Findlay, OH 45840	OGRID: 267595
	Action Number: 217062
	Action Type: [UF-DP] Discharge Permit (DISCHARGE PERMIT)

CONDITIONS

Created By	Condition	Condition Date
scwells	Accepted for Records Retention Purposes Only	5/16/2023