

Review of the Site Status Report 2022 for Hobbs Tank 5201 Release: **Content Satisfactory**

- 1. Continue air sparging as recommend and approved by the NMOCD.
- 2. Install Oxygen Release Socks in the same well as the one used for air sparging, HTRW-1 and in wells RW-1, HTRW-3 to increase biodegradation of TPH in area.
- 3. Continue to groundwater monitor and send 2023 report no later than April 1, 2024.



Site Status Report for 2022

Hobbs Tank 5201 Release AP-113 Lea County, New Mexico

March 2023

HF Sinclair Corporation





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1. Introduction

This 2022 status report is submitted by GHD Services, Inc. (GHD), on behalf of **HF Sinclair Corporation** for the Hobbs Tank 5201 Release, AP-113, (Site), located in Lea County, New Mexico (**Figure 1**). The C-141 notification for the release was submitted to the New Mexico Oil Conservation District (NMOCD) on July 22, 2004. This report includes the status of groundwater monitoring and remediation at the Site for the period from March 2021 to December 2022.

1.1 Site Background

On July 22, 2004, a leak of an unknown volume of crude oil was discovered in a 6-inch pipeline from the crude oil truck unloading rack at the storage tank 5201 (**Figure 2**). The line was exposed and clamped, and the section was replaced, immediately. Petroleum-stained soil from the release was immediately excavated in an area that covered approximately 4 feet by 20 feet by 18 feet deep. Additional staining observed close to the tank was not excavated due to the proximity of the tank and fear of compromising the 1930-vintage tank's structural integrity. No fluid was observed during the excavation.

1.2 Site Setting

The Site is located approximately 3.5 miles south of Hobbs, New Mexico on County Road 61 in the NW ¼ of the NW ¼ of Section 22, Township 19 South, and Range 38 East in Lea County, New Mexico (32° 39.079' N, 103°8.530' W). The topography at the Site is relatively flat and the average elevation is 3,595 feet mean sea level (**Figure 1**). The Site is located on property within the Holly Energy Partners tank farm, which is on property owned by Enterprise Products and is surrounded by fencing with access controlled by a locked gate. The surrounding area contains crude oil storage tanks, pipelines, and open rangeland.

1.3 Site Geology and Hydrogeology

The surface soils encountered at the Site are silty to fine sands approximately 10-feet thick. This surface soil is consistent with the surface soil description (Quaternary sediment) for this physiographic province. The soil types encountered below this surface layer at the Site are indurated (hardened) calcium carbonate intervals of variable thickness locally referred to as "caliche", fine-grained sand, sandstone with caliche and the saturated zone consisting of fractured sandstone.

Groundwater in the area of the Site is primarily produced from the Ogallala aquifer. The Ogallala Formation unconformably overlies the Triassic age Dockum group. The Dockum group consists of red shale and sandstone and is commonly referred to as "red beds". The red beds can exceed 1,000 feet in thickness in this region and may produce small amounts of poor-quality water at the bottom of the formation.

The regional groundwater flow direction in the Ogallala is toward the southeast and follows the Triassic subcrop surface. Groundwater quality is very good with total dissolved solids (TDS)



concentrations typically below 1,000 mg/L. Recharge primarily occurs via infiltration from precipitation events.

Groundwater at the Site is found in fractured sandstone consistent with the Ogallala aquifer. The depth to groundwater at the Site is approximately 50 feet-below ground surface (ft-bgs). The groundwater flow is towards the east-southeast and the groundwater gradient is approximately 0.001ft/ft.

1.4 Summary of Site Conditions

Safety and Environmental Solutions Inc. (SESI) installed six groundwater monitoring wells, one recovery well and advanced seven boreholes shortly after the release to characterize the release and recover the released crude oil in the area of the tank. Five boreholes and two monitoring wells were installed inside of the berm area in 2004. The first borehole was completed as a 2-inch monitor well (MW-1), adjacent to the leak location. Two monitoring wells, MW-2 and MW-3 were installed outside the bermed area in 2004, down-gradient of the release. A 4-inch recovery well (RW-1) was installed in the area near the tank and MW-1 in 2004. In 2010, two additional monitoring wells were installed, MW-4, outside the bermed area and MW-5, up-gradient and inside the bermed area (Figure 2).

SESI monitored groundwater conditions and recovered crude oil from wells MW-1 and RW-1 from 2004 to 2011. In 2004, crude oil was initially measured in MW-1 at approximately 6 feet thick. In the recovery well, RW-1, the initial product thickness was measured at 2.75 feet. Crude oil was not found in any other areas of the Site. In 2005, outside the tank berm area and approximately 200 feet southeast from the release point, benzene was detected in the down-gradient area in monitor well MW-2 at a concentration of 72 μ g/L, which is above the New Mexico Water Quality Control Commission (NMWQCC) standard of 5 μ g/L. Benzene has not been detected above the standard in this well or in any other monitoring wells located down-gradient and outside the berm area since 2005.

In June 2013, four recovery wells were installed by GHD within the berm area and near the release area to delineate the crude oil and to recover crude oil (**Figure 2**). In September 2013, a crude oil only recovery system with remote access was installed with oil only skimmer pumps in well RW-1 and recovery wells, HTRW-1, and HTRW-3. This system was used until March 2015 when only negligible amounts of recoverable oil were remaining in the area. Since 2015, Enhanced Fluid Recovery (EFR) using a vacuum truck has been used to recover crude oil from wells MW-1, RW-1, HTRW-1, and HTRW-3. Oil absorbent socks have been used in these wells when EFR was not used during the months between EFR uses.

Appendix A contains information on fluid levels and crude oil thickness since 2012. Wells MW-1 and RW-1 contained oil sporadically from 2012 to March 2019. HTRW-1 contained oil sporadically from 2013 to October 2016. Wells HTRW-2 and HTRW-4 have never showed any measurable oil. HTRW-3 had shown measurable oil from 2013 to 2020 and none has been measured in this well since June 2020 (**Appendix A**).



1.5 Site Conceptual Model

The Site is located in an area of multiple crude oil gathering lines and storage tanks and 2 miles west of Highway 18 and three miles south of Hobbs, New Mexico. The entire site is fenced, and access is restricted for people and cattle. The closest residences are approximately 0.5 miles northeast of the Site (**Figure 1**). The closest drinking water well (L08890) is located approximately 900 feet to the southeast of the Site. This well was sampled for hydrocarbons following the discovery of the release and was not impacted by the release (Stage 1/Stage 2 Abatement Plan, November 2012, CRA). Another well (I08279) is located approximately 1900 ft northeast from the site was sampled in March 2019 and showed no detections of any inorganic or hydrocarbon constituents above state standards.

Groundwater at the Site is found at approximately 50 ft-bgs and the groundwater flow direction is towards the southeast at an average gradient of approximately 0.001 feet/foot (ft/ft). One monitoring well (MW-5) is located up-gradient of the release area and four monitoring wells are located down-gradient of the release. The dissolved phase hydrocarbon concentrations in groundwater at these locations have been below the NMWQCC standards for benzene, toluene, ethylbenzene, and total xylenes (BTEX) since 2005. The impacts to groundwater, from the release, appear to be limited to the immediate area of the leak located near the tank. Recovery well HTRW-1 has had detections of benzene. In December 2019, the benzene concentration (the only constituent above state NMWQCC standards) in this well was 57.5 micrograms per liter (μ g/L), in December 2020 the benzene concentration was 626 μ g/L and in December 2021 benzene was detected below the standard at 2.49 μ g/L. Since September 2021 concentrations of benzene have been below the standard on five (5) occasions and on one occasion the concentration in this well was above the standard of 5.0 μ g/L at a concentration of 585 μ g/L in March 2022 (**Table 1**).

The primary chemicals of concern are hydrocarbon constituents that have dissolved from the released crude oil. The NMWQCC standards for hydrocarbons in groundwater for this Site are:

- 5 µg/L for benzene
- 1000 µg/L for toluene
- 700 μg/L for ethylbenzene
- 620 µg/L for total xylenes

The polycyclic aromatic hydrocarbons (PAHs) analyses for all sampled wells showed no detections of any PAHs above the laboratory lower method reporting limit for five consecutive sampling events conducted from March 2018 to March 2019.

Groundwater samples were analyzed for TDS, chloride and RCRA metals, which included arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver for all sampled wells in 2014, 2016, 2017, 2019 and 2020. The analyses showed none of these constituents were above state standards in 2019 and 2020.

There appears to be no remaining threat to the environment or to drinking water wells located in the area caused by the release and any remaining impacts. Dissolved phase hydrocarbons have only been detected in the immediate area of the release. Other constituents, PAHs and RCRA metals, that may be associated with the released oil have not been detected consistently within the berm



area near the release or outside the berm area and down-gradient of the release above state standards. Crude oil has not been measured in any wells since June 2020 and the only well that has shown detections of benzene above the standard is recovery well HTRW-1, which had contained measurable crude oil until 2016.

2. Site Activities

Groundwater monitoring was conducted at the Site by GHD for 2021 and 2022 in March, June, September, and December. The groundwater monitoring included measurement of fluid levels in all monitoring wells and the recovery wells, collection of groundwater samples for laboratory analysis for BTEX and total petroleum hydrocarbons-gasoline range organics (TPH-GRO) and total petroleum hydrocarbons- diesel range organics (TPH-DRO). Remediation activities that have been performed in well HTRW-1 since 2021, have included Cool-Ox treatment, EFR using a vacuum truck and air sparging.

3. Groundwater Monitoring Procedures and Results

For this reporting period, fluid levels were measured in all monitoring wells and recovery wells at the Site in 2021 and 2022. Groundwater samples were collected on a semiannual basis from the monitor wells MW-4, and MW-5, and from recovery well HTRW-1, quarterly. Groundwater samples were not collected from monitoring wells MW-2 and MW-3 in 2021 and 2022, as both wells were dry or contained an insufficient amount of water for sample acquisition. **Appendix A** shows historical fluid levels from 2012 to December 2022. **Table 1** summarizes hydrocarbon analytical results for 2021 and 2022. **Appendix B** summarizes historical analytical results from August 2004 to December 2022.

Prior to purging of the wells and obtaining groundwater samples, fluid levels were measured in the wells that have contained crude oil, using an oil/water level indicator. The monitor wells were purged prior to sample acquisition at a rate of 160 ml/min or less or with disposable bailers. Groundwater samples were collected following stabilization of the field parameters. The meters used for the field parameters were calibrated prior to use. Field parameters obtained prior to sampling included temperature, specific conductance, pH, dissolved oxygen, and oxidation-reduction potential (ORP) and are tabulated in **Appendix B**. The groundwater samples were analyzed for BTEX by Method 8260 and for TPH-GRO and TPH-DRO by Method 8015. Groundwater samples were immediately placed into the appropriate laboratory provided containers and placed in an ice-chilled cooler for transport to the DHL laboratory, Round Rock, TX under chain-of-custody procedures.

March 2021

In March 2021, crude oil was not measured in any of the wells during this guarter (Appendix A).

Water levels measured in March 2021 were generally 0.10 to 0.20 feet lower than water levels measured in December 2020. For the March 2021 monitoring period, the groundwater flow, as previously observed, (**Figure 4**) was towards the southeast with a gradient of 0.001 ft/ft (0.001 ft/ft in March 2020).



The March 2021 hydrocarbon concentrations for each sampled well are shown in **Table 1**, **Figure 12** and in **Appendix B**. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. The March 2021 laboratory report is contained **Appendix D**.

The analytical results for this monitoring period are summarized as follows:

- None of the BTEX constituents, were detected above NMWQCC standards in wells MW-4 and MW-5.
- Benzene was detected above the NMWQCC standard in well HTRW-1 at 849 μg/L.
- Ethylbenzene and xylenes were detected in well HTRW-1 below the NMWQCC standards.
- TPH-GRO was detected above the lower laboratory reporting limit (0.06 mg/L) in well HTRW-1 at 2.36 mg/L and was not detected above the limit in wells MW-4 and MW-5.
- TPH-DRO were detected above the lower laboratory reporting limit in wells MW-5 at 0.281 mg/L. and HTRW-1 at 0.204 mg/L.

Concentrations of dissolved hydrocarbons in groundwater during the March 2021 monitoring period were not detected in wells above the NMWQCC standards outside the berm area (**Figure 12**).

June 2021

In June 2021, crude oil was not measured in any of the wells during this quarter (Appendix A).

Water levels measured in June 2021 were approximately 0.10 to 0.20 feet lower than water levels measured in March 2021. For the June 2021 monitoring period, the groundwater flow was towards the southeast with a gradient of 0.001 ft/ft (0.001 ft/ft in June 2020), as previously observed (**Figure 5**).

The June 2021 hydrocarbon concentrations for each sampled well are shown in **Table 1**, **Figure 12** and in **Appendix B**. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. Wells MW-4 and MW-5 were not sampled this quarter and will be sampled on semiannual basis. The June 2021 laboratory report is contained **Appendix D**.

The analytical results for this monitoring period are summarized as follows:

- Benzene was detected above the NMWQCC standard in well HTRW-1 at 765 µg/L.
- Toluene, ethyl-benzene and total xylenes were not detected above the NMWQCC standards in HTRW-1.
- TPH-GRO was detected above the lower laboratory reporting limit (0.06 mg/L) in well HTRW-1 at 1.70 mg/L.
- TPH-DRO was not detected above the lower laboratory reporting limit (0.147 mg/L) in well HTRW-1.

Concentrations of dissolved hydrocarbons in groundwater during the June 2021 monitoring period were not detected in wells above the NMWQCC standards outside the berm area (**Figure 12**).

September 2021

In September 2021, crude oil was not measured in any of the wells (Appendix A).



Water levels measured in September 2021 were generally 0.10 feet lower than water levels measured in June 2021. For the September 2021 monitoring period the groundwater flow (**Figure 6**) was towards the southeast with a gradient of 0.001 ft/ft (0.001 ft/ft in September 2020).

The September 2021 hydrocarbon concentrations for each sampled well are shown in **Table 1**, **Figure 12** and in **Appendix B**. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. Wells MW-4 and MW-5 were not sampled this quarter and will be sampled on semiannual basis. The September 2021 laboratory report is contained **Appendix D**.

The analytical results for this monitoring period are summarized as follows:

- Benzene was detected below the NMWQCC standard in well HTRW-1 at 1.20 μg/L.
- Toluene, ethyl-benzene and total xylenes were not detected above the NMWQCC standards in HTRW-1.
- TPH-GRO was not detected above the lower laboratory reporting limit (0.06 mg/L) in well HTRW-1; and
- TPH-DRO was not detected above the lower laboratory reporting limit (0.551 mg/L) in well HTRW-1.

Concentrations of dissolved hydrocarbons in groundwater during the September 2021 monitoring period were not detected in wells above the NMWQCC standards outside the berm area (**Figure 12**).

December 2021

In December 2021, crude oil was not measured in any of the wells during this quarter (**Appendix A**).

Water levels measured in December 2021 were generally 0.20 feet lower than water levels measured in September 2021. For the December 2021 monitoring period, the groundwater flow (**Figure 7**) was towards the southeast with a gradient of 0.001 ft/ft (0.001 ft/ft in December 2020).

The December 2021 hydrocarbon concentrations for each sampled well are shown in **Table 1**, **Figure 12** and in **Appendix B**. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. The December 2021 laboratory report is contained **Appendix D**.

The analytical results for this monitoring period are summarized as follows:

- None of the BTEX constituents were detected above the NMWQCC standards in wells MW-4 and MW-5.
- Benzene was detected below the NMWQCC standard in well HTRW-1 at 2.49 µg/L.
- Toluene, ethyl-benzene and total xylenes were not detected above the NMWQCC standards in well HTRW-1.
- TPH-GRO and TPH-DRO were not detected above the lower laboratory reporting limits in wells MW-4, MW-5, and HTRW-1.

Concentrations of dissolved hydrocarbons in groundwater during the December 2021 monitoring period were not detected in wells above the NMWQCC standards inside and outside the berm area (**Figure 12**).



March 2022

In March 2022, crude oil was not measured in any of the Site wells during this quarter (**Figure 3 and Appendix A**).

Water levels measured in March 2022 were similar to water levels measured in December 2021. Monitoring wells MW-2 and MW-3 were measured as dry. For the March 2022 monitoring period, the groundwater flow (**Figure 8**) was towards the east with a gradient of 0.001 ft/ft (0.001 ft/ft in March 2021).

The March 2022 hydrocarbon concentrations for each sampled well are shown in **Table 1, Figure 12** and in **Appendix B**. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. Only well HTRW-1 was sampled this quarter. The March 2022 laboratory report is contained **Appendix D**.

The analytical results for this monitoring period are summarized as follows:

- Benzene was detected above the NMWQCC standard in well HTRW-1 at 585 µg/L.
- Ethylbenzene, toluene, and total xylenes were not detected in well HTRW-1 above the NMWQCC standards.
- TPH-GRO was detected in this well at 1.28 mg/L and TPH-DRO was not detected above the laboratory lower reporting limit of 0.153 mg/L.

Concentrations of dissolved hydrocarbons in groundwater during the March 2022 monitoring period were not detected in wells above the NMWQCC standards outside the berm area (**Figure 12**).

June 2022

In June 2022, crude oil was not measured in any of the wells during this quarter (**Figure 3 and Appendix A**).

Water levels measured in June 2022 were slightly lower than water levels measured in March 2022 and wells MW-2 and MW-3 remained dry. For the June 2022 monitoring period, the groundwater flow was towards the east with a gradient of 0.001 ft/ft (0.001 ft/ft in June 2021), as previously observed (**Figure 9**).

The June 2022 hydrocarbon concentrations for each sampled well are shown in **Table 1, Figure 12** and in **Appendix B**. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. Wells MW-4, MW-5 and HTRW-1 were sampled this quarter. The June 2022 laboratory report is contained **Appendix D**.

The analytical results for this monitoring period are summarized as follows:

- Benzene was not detected above the NMWQCC standard in any of the wells.
- Toluene, ethyl-benzene, and total xylenes were not detected above the NMWQCC standards in any of the wells.
- TPH-GRO and TPH-DRO were not detected above the lower laboratory reporting limits an any of the wells.



Concentrations of dissolved hydrocarbons in groundwater during the June 2022 monitoring period were not detected in wells above the NMWQCC standards inside and outside the berm area (**Figure 12**).

September 2022

In September 2022, crude oil was not measured in any of the wells during this quarter (**Figure 3 and Appendix A**).

Water levels measured in September 2022 were approximately 0.20 feet lower than water levels measured in June 2022 and wells MW-2 and MW-3 were dry. For the September 2022 monitoring period the groundwater flow (**Figure 10**) was towards the east with a gradient of 0.001 ft/ft (0.001 ft/ft in September 2020).

The September 2022 hydrocarbon concentrations for each sampled well are shown in **Table 1**, **Figure 12** and in **Appendix B**. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. Wells MW-4 and MW-5 were not sampled this quarter and will be sampled in December. The September 2022 laboratory report is contained **Appendix D**.

The analytical results for this monitoring period are summarized as follows:

- Benzene was detected below the NMWQCC standard in well HTRW-1 at 0.429 μg/L.
- Toluene, ethyl-benzene and total xylenes were not detected above the NMWQCC standards in well HTRW-1.
- TPH-GRO was not detected above the lower laboratory reporting limit (0.06 mg/L) and TPH-DRO was detected at 0.321 mg/L in well HTRW-1.

Concentrations of dissolved hydrocarbons in groundwater during the September 2022 monitoring period were not detected in wells above the NMWQCC standards inside and outside the berm area (**Figure 12**).

December 2022

In December 2022, crude oil was not measured in any of the wells during this quarter (**Figure 3 and Appendix A**).

Water levels measured in December 2022 were generally 0.10 feet lower than water levels measured in September 2022. For the December 2022 monitoring period the groundwater flow (**Figure 11**) was towards the east with a gradient of 0.001 ft/ft (0.001 ft/ft in December 2021).

The December 2022 hydrocarbon concentrations for each sampled well are shown in **Table 1**, **Figure 12** and in **Appendix B**. Wells MW-2 and MW-3 were not sampled due to insufficient water in the wells. The December 2022 laboratory report is contained **Appendix D**.

The analytical results for this monitoring period are summarized as follows:

- None of the BTEX constituents were detected above the NMWQCC standards in wells MW-4 and MW-5.
- Benzene was detected below the NMWQCC standard in well HTRW-1 at <1.0 µg/L.



- Toluene, ethyl-benzene and total xylenes were not detected above the NMWQCC standards in HTRW-1.
- TPH-GRO and TPH-DRO were not detected above the lower laboratory reporting limits in wells MW-4, MW-5, and HTRW-1.

Concentrations of dissolved hydrocarbons in groundwater during the December 2022 monitoring period were not detected in wells above the NMWQCC standards inside and outside the berm area (**Figure 12**).

4. QA/QC Results

Quality Assurance/Quality Control (QA/QC) measures were followed according to the abatement plan. A summary of the QA/QC analytical results is presented in **Table 2** for this reporting period.

Duplicate groundwater samples were collected in December 2022. The duplicate sample was analyzed for BTEX, TPH-GRO, and TPH-DRO. There was no difference in the duplicate results.

Each cooler containing the groundwater samples was shipped to the laboratory with a temperature blank and a laboratory prepared trip blank for June, September, and December 2022. The trip blank samples were analyzed for BTEX and TPH-GRO. There were no detections above the lower laboratory reporting limits for BTEX and TPH-DRO in any of the trip blank samples that were submitted (**Table 2**). All samples were analyzed within the holding times and all coolers were received at the proper temperature. Based on this evaluation, all the data meets acceptance criteria and is suitable for use in this report.

5. Remediation Status

The crude oil from the release has historically been found in the central portion of the Site, in the immediate area of Tank 5201 and inside the tank berm. Crude oil has not been measured in any monitoring wells located outside of this area of the release. Crude oil was recovered from wells using a crude oil only skimmer pump system from September 2013 to December 2015. EFR was used to recover the oil from December 2015 to January 2018 and oil absorbent socks have been used periodically for any *de minimus* remaining oil since 2018. The crude oil thickness in Site wells for March 2022 to December 2022 is shown in **Figure 3** and detailed in **Appendix A**.

Crude oil from the release has not recharged at a recoverable rate since March 2018 and measured crude oil thicknesses have been declining in wells near the release since September 2013 (**Appendix A**). The maximum crude oil thickness measured in well RW-1 was in December 2012 at 3.01 feet and presently does not have any measured crude oil. The maximum crude oil thickness was measured in well MW-1 at 3.62 feet in August 2012 and has not shown any measured crude oil since March 2020 (**Appendix A**). The maximum crude oil thickness in HTRW-3 was measured at 1.70 in December 2015 and has not had any measurable crude oil since June 2020 (**Appendix A**). Crude oil has never been measured in wells HTRW-2 and HTRW-4 since installation of the wells in 2013 and HTRW-1 has not shown any crude oil since October 2016 (**Appendix A**).



The Site total accumulated thickness of the crude oil as measured in all wells for the Site has declined from 8.50 feet in 2013 to 1.72 feet in December 2015, to 0.03 feet in June 2016, to 0.53 feet in December 2016, to 0.04 feet in June 2017 to 0.05 feet in December 2018 to 0.18 feet in December 2019. Since March 2020, there has been no measurable oil in any of the Site wells (**Appendix A**).

In 2021 and 2022, remediation activities for Well HTRW-1 have included the use of Cool-Ox, EFR and air sparging. Five gallons of Cool-Ox (calcium peroxide) was used in well HTRW-1 to clean residual crude oil in the well casing and screen, and the well borehole. EFR was used on wells RW-1 and HTRW-3 to remove impacted groundwater in the area throughout 2022 with approximately 2 barrels of total fluids removed per event. Initially, the removed water from these wells was discolored and with time the water clarity improved considerably. As an additional means to reduce dissolved phase hydrocarbons present in groundwater, an air sparging system was activated in March 2021 for well HTRW-1 with air being pumped into the well continuously. The dissolved phase hydrocarbon concentrations in this well have been declining to below NMWQCC standards since September 2021 showing the effectiveness of the air sparging system (**Appendix C**).

6. Conclusions and Recommendations

The crude oil thickness from the release has declined to none measured due to removal of the crude oil by pumping, the use of EFR and oil absorbent socks since 2012. There has been no measurable crude oil in any of the Site wells since June 2020. Hydrocarbon concentrations, specifically benzene, fluctuated in well HTRW-1 during 2021 and 2022 and sporadically exceeded the NMWQCC standard for benzene. Overall, benzene concentrations have decreased in well HTRW-1 as a result of Site remediation efforts including the use of EFR in the area, Cool-OX and air sparging during 2021 and 2022. Concentrations of dissolved hydrocarbons in groundwater during this reporting period were not detected in wells above the NMWQCC standards outside the berm area (**Figure 12**).

The following items based on discussion with Bradford Billings, NMOCD, in 2021, were addressed in 2022:

- Reconditioned well HTRW-1 by using air sparging and use of Cool-Ox.
- EFR use for removal of impacted water from wells RW-1 and HTRW-3.
- Well HTRW-1 was sampled quarterly.
- All other wells were sampled semiannually if sufficient water was present.

Recommendations for 2023 include the following;

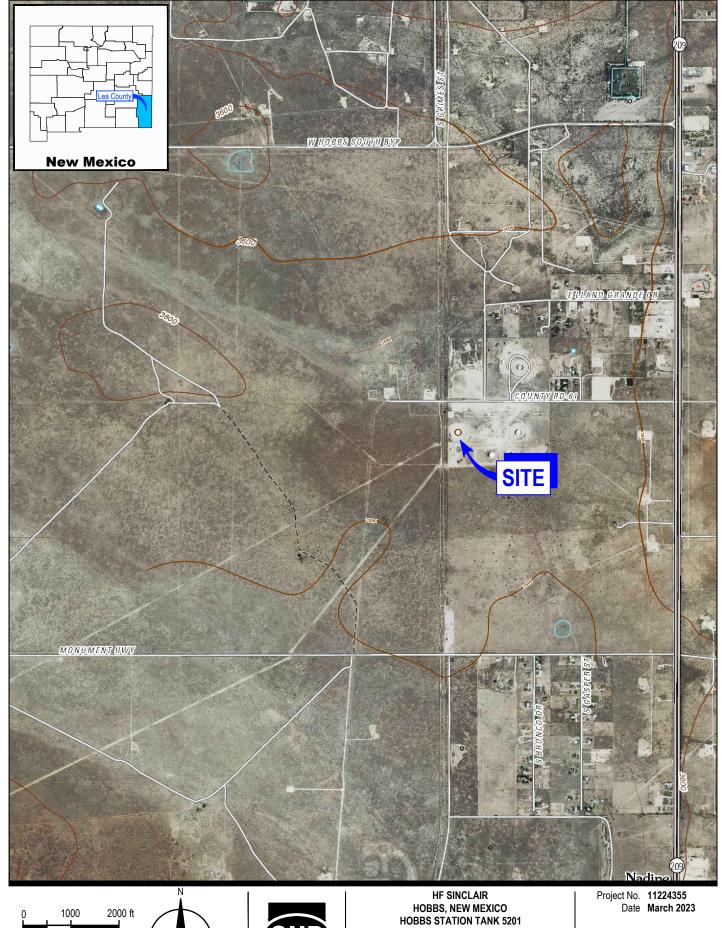
- Continue air sparging in well HTRW-1.
- Install Oxygen Release Compound (ORC®) socks (regenesis.com) in the same well as the one
 used for air sparging, HTRW-1 and in wells RW-1, and HTRW-3 to increase biodegradation of
 hydrocarbons in the area.
- Continue groundwater monitoring at the schedule detailed above until closure requirements are met.



All groundwater samples will continue to be analyzed for BTEX, GRO and DRO. The remedial strategy for site closure is based on the current NMOCD requirements. To close the Site with no further action, the crude oil would first have to be removed separately from groundwater (19.15.17.13 NMAC), which has not been measured in any of the Site wells since June 2020. Since September 2021, benzene concentrations in well HTRW-1 have been below the state standard during five of the six quarterly monitoring events. If benzene concentrations remain below the standard throughout 2023, Site closure will be requested from the NMOCD.

Figures

FIGURE 1



2000 ft

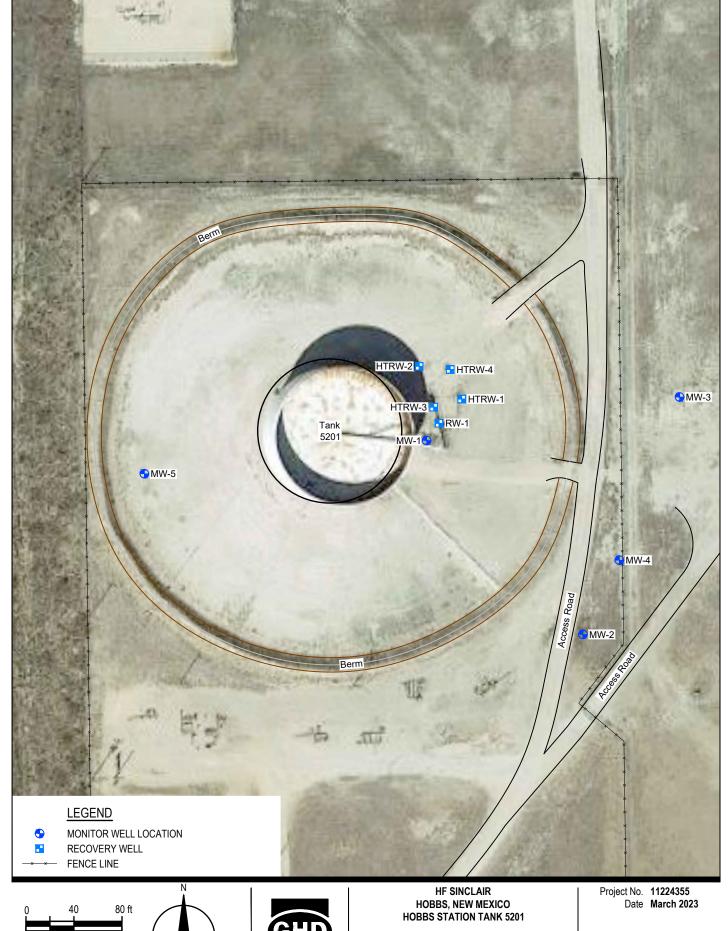
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Coordinate System:

SITE LOCATION MAP

Coordinate System:

FIGURE 2



NAD 1983 StatePlane-New Mexico East (US Feet)

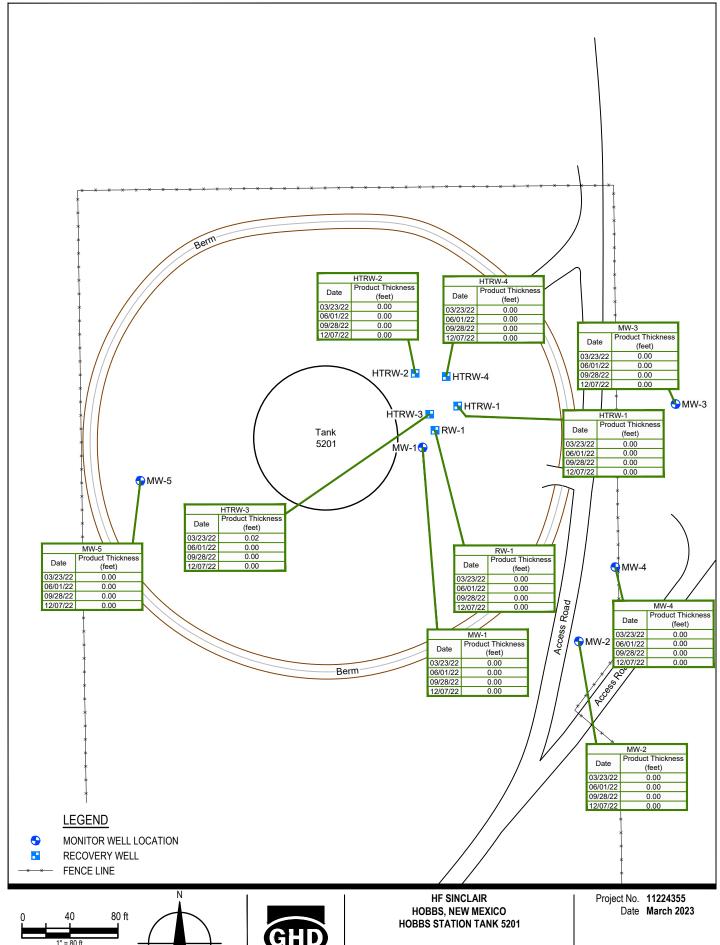
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Data Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation Lat/Long: 32.6549° North, 103.1382° West

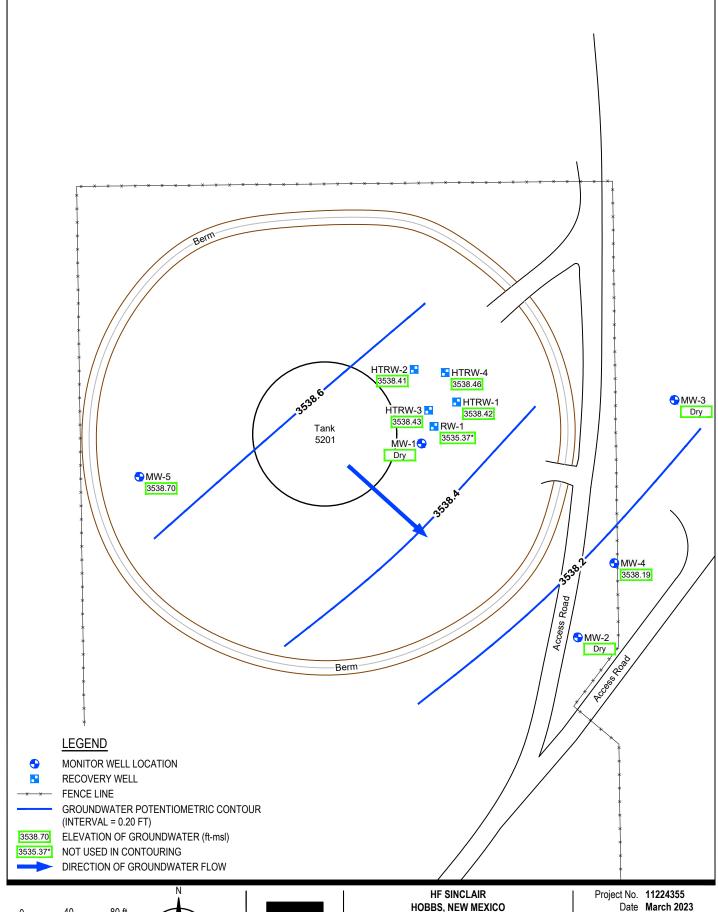
SITE MAP

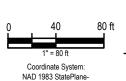
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NAD 1983 StatePlane-



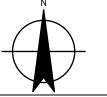
PRODUCT THICKNESS MAP -





New Mexico East (US Feet)

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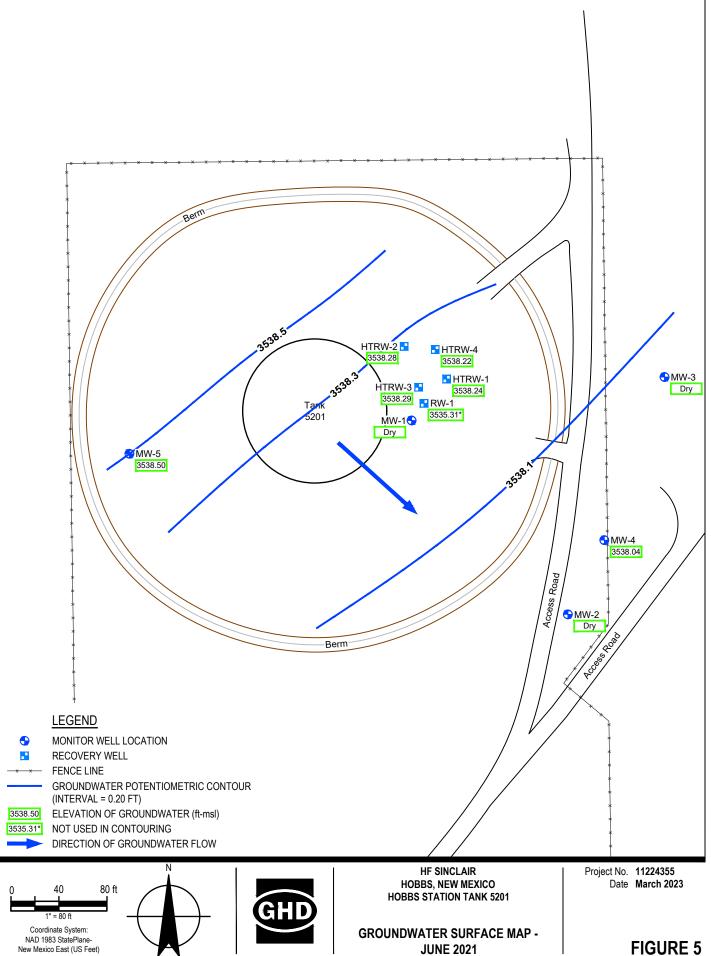




HOBBS, NEW MEXICO HOBBS STATION TANK 5201

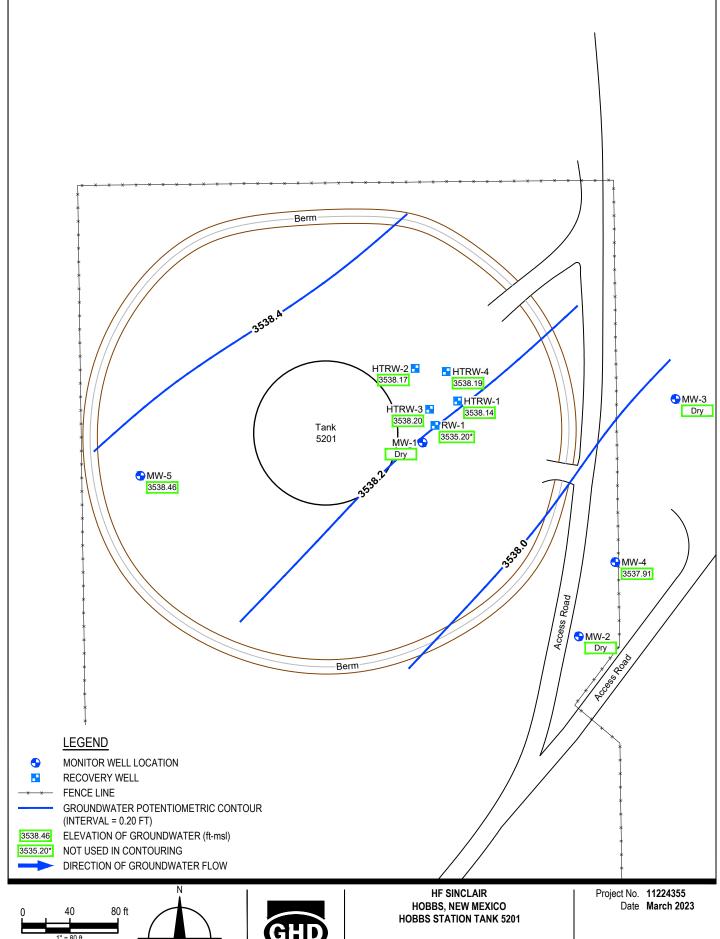
GROUNDWATER SURFACE MAP -MARCH 2021

Date March 2023



Coordinate System:

NAD 1983 StatePlane-New Mexico East (US Feet)



GROUNDWATER SURFACE MAP -

SEPTEMBER 2021

Berm

Tank

5201

HTRW-2 ... 3537.95

ĤTRW-3 ■

3537.94

MW-1

3537.91

... RW-1

3538.02*

HTRW-1

3537.92

GROUNDWATER SURFACE MAP - DECEMBER 2021

Project No. 11224355 Date March 2023

FIGURE 7

Released to Imaging: 8/9/2023 4:39:09 PM

MW-3 Dry

3531.

MW-2 Dry MW-4 3537.58

→ MW-5 3538.24

LEGEND

Coordinate System:

NAD 1983 StatePlane-

•

T.

3538.24

MONITOR WELL LOCATION

NOT USED IN CONTOURING

80 ft

GROUNDWATER POTENTIOMETRIC CONTOUR

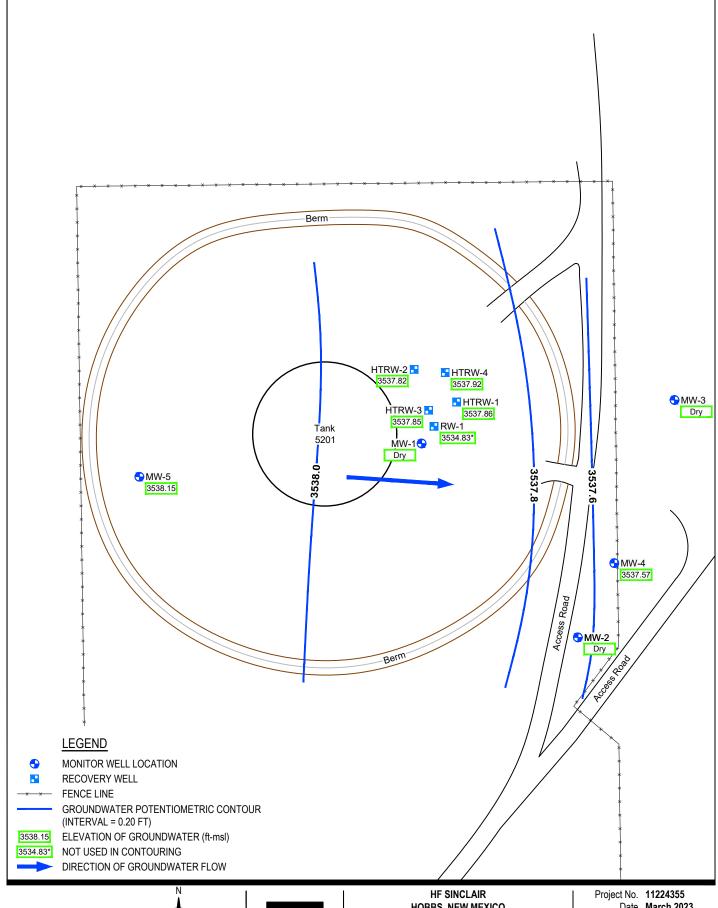
ELEVATION OF GROUNDWATER (ft-msl)

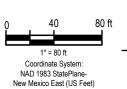
DIRECTION OF GROUNDWATER FLOW

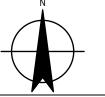
RECOVERY WELL FENCE LINE

(INTERVAL = 0.20 FT)







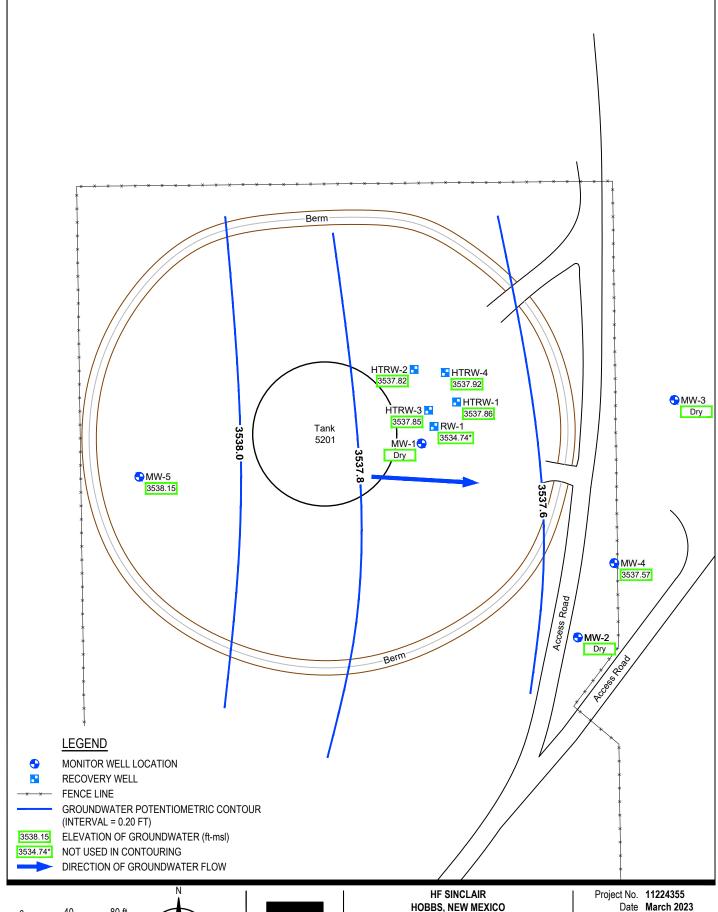


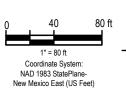


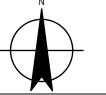
HOBBS, NEW MEXICO HOBBS STATION TANK 5201

GROUNDWATER SURFACE MAP -MARCH 2022

Date March 2023





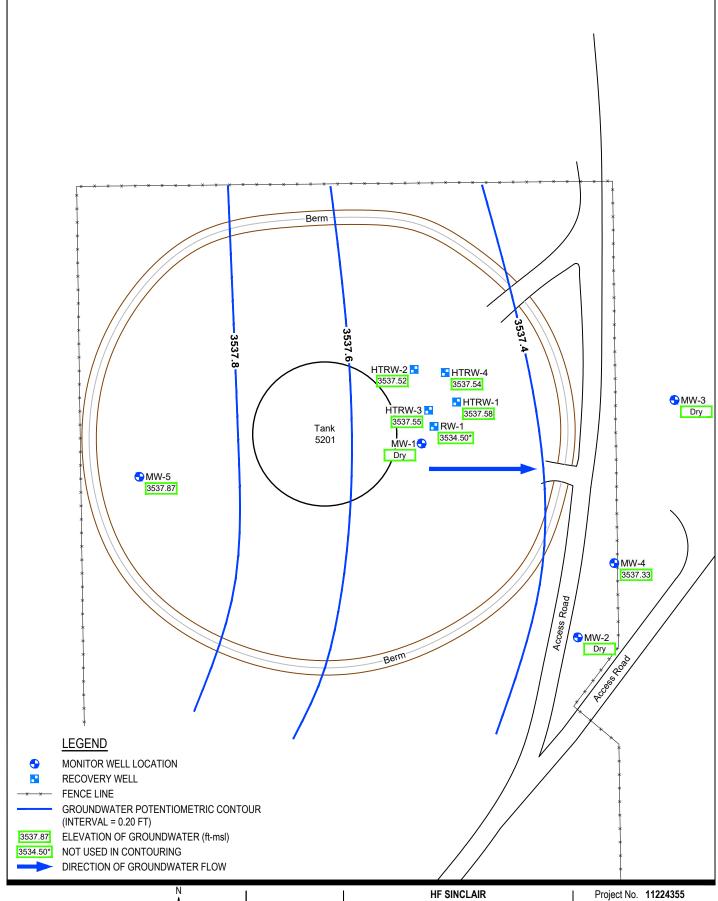


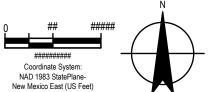


HOBBS, NEW MEXICO HOBBS STATION TANK 5201

GROUNDWATER SURFACE MAP -JUNE 2022

Date March 2023





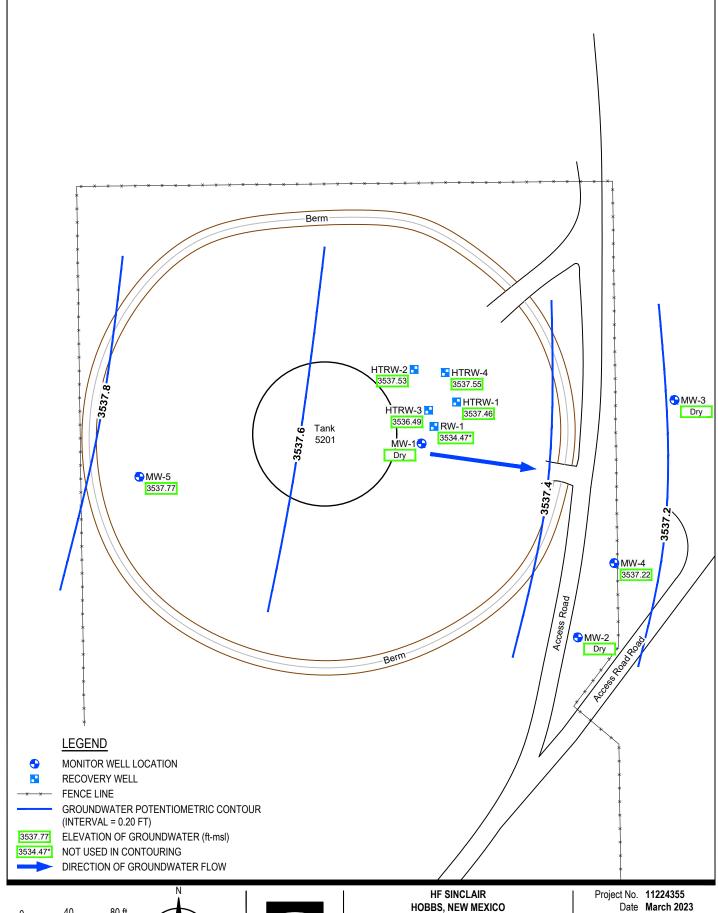
GHD

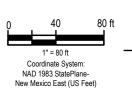
HF SINCLAIR HOBBS, NEW MEXICO HOBBS STATION TANK 5201

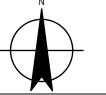
GROUNDWATER SURFACE MAP - SEPTEMBER 2022

Project No. 11224355

Date March 2023





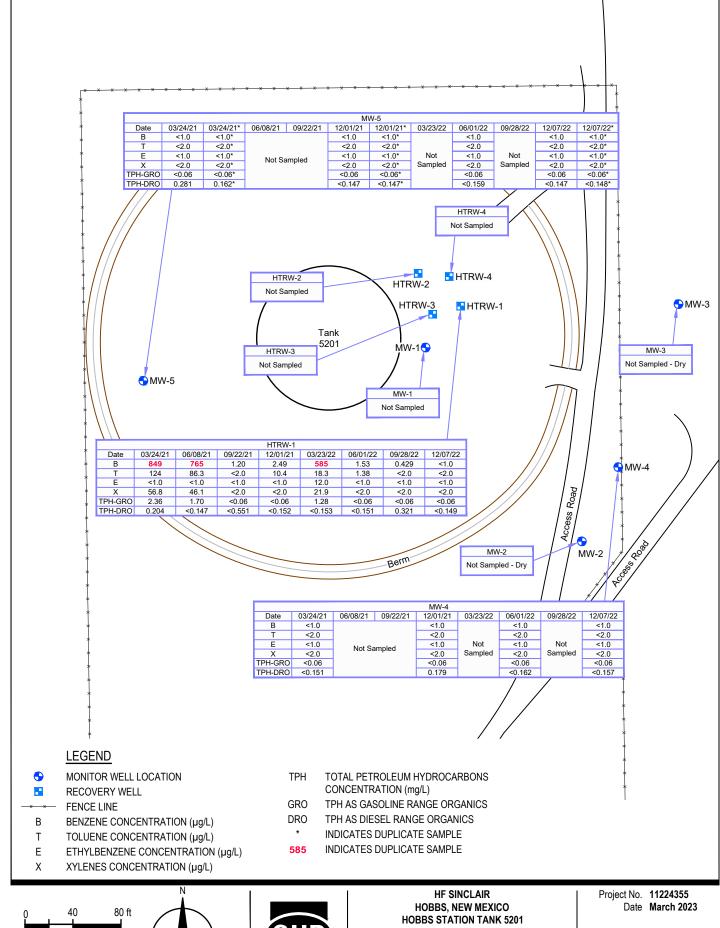


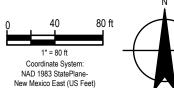


HOBBS, NEW MEXICO HOBBS STATION TANK 5201

GROUNDWATER SURFACE MAP -DECEMBER 2022

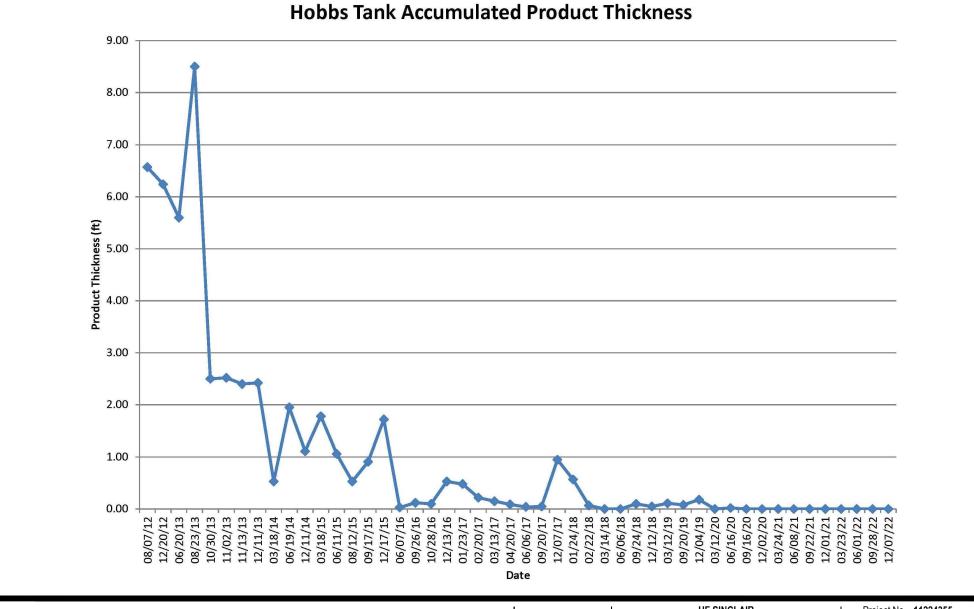








ANALYTICAL MAP FOR MARCH 2021 TO DECEMBER 2022





HF SINCLAIR HOBBS, NEW MEXICO HOBBS STATION TANK 5201

SITE TOTAL ACCUMULATED CRUDE OIL THICKNESS

Project No. 11224355 Date March 2023

Tables

Table 1 Summary of Groundwater Hydrocarbon Results for 2021/2022 HF Sinclair - Hobbs Tank 5201 - Lea County, New Mexico

Monitor Well ID	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Xylenes (μg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Product Thickness (ft)	Depth to Water (ft-bmp)	Groundwater Elevation (ft-msl)
NMWQCC										
Groundwater										
Standards		5	1000	700	620	NE	NE			
MW-1	03/24/21	NS	NS	NS	NS	NS	NS	0.00	dry	dry
	06/08/21	NS	NS	NS	NS	NS	NS	0.00	dry	dry
	09/22/21	NS	NS	NS	NS	NS	NS	0.00	dry	dry
	12/01/21	NS	NS	NS	NS	NS	NS	0.00	dry	dry
	03/23/22	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	0.00	dry	dry
	06/01/22 09/28/22	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	0.00	dry	dry dry
	12/07/22	NS	NS	NS	NS	NS	NS NS	0.00	dry dry	dry
	12/01/22	140	140	110	110	110	140	0.00	ury	ury
MW-2	03/24/21	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	06/08/21	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	09/22/21	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	12/01/21	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	03/23/22	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	06/01/22	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	09/28/22	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	12/07/22	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
MW-3	03/24/21	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	06/08/21	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	09/22/21	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	12/01/21	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	03/23/22	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	06/01/22	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	09/28/22	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
	12/07/22	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	0.00	dry	dry
MW-4	00/04/04	<1.0	-0.0	-1.0	-0.0	-0.00	-0.454	0.00	50.00	0.500.40
IVI VV -4	03/24/21 06/08/21	NS	<2.0 NS	<1.0 NS	<2.0 NS	<0.06 NS	<0.151 NS	0.00	52.66 52.81	3,538.19 3,538.04
	09/22/21	NS	NS	NS	NS	NS	NS	0.00	52.94	3,537.91
	12/01/21	<1.0	<2.0	<1.0	<2.0	<0.06	0.179	0.00	53.27	3,537.58
	03/23/22	NS	NS	NS	NS	NS	NS	0.00	53.28	3,537.57
	06/01/22	<1.0	<2.0	<1.0	<2.0	<0.06	<0.162	0.00	53.30	3,537.55
	09/28/22	NS	NS	NS	NS	NS	NS	0.00	53.52	3,537.33
	12/07/22	<1.0	<2.0	<1.0	<2.0	<0.06	<0.157	0.00	53.63	3,537.22
NAVA / E	00/04/04	-1.0	-0.0	-1.0	-0.0	-0.00	0.004	0.00	54.05	0.500.70
MW-5	03/24/21	<1.0	<2.0	<1.0	<2.0	<0.06	0.281	0.00	54.05	3,538.70
duplicate	03/24/21 06/08/21	<1.0 NS	<2.0 NS	<1.0 NS	<2.0 NS	<0.06 NS	0.162 NS	0.00	54.05 54.05	3,538.70 3,538.50
	09/22/21	NS	NS	NS	NS	NS	NS	0.00	54.05	3,538.46
	12/01/21	<1.0	<2.0	<1.0	<2.0	<0.06	<0.147	0.00	54.51	3.538.24
duplicate	12/01/21	<1.0	<2.0	<1.0	<2.0	<0.06	<0.147	0.00	54.51	3,538.24
	03/23/22	NS	NS	NS	NS	NS	NS	0.00	54.51	3,538.15
	06/01/22	<1.0	<2.0	<1.0	<2.0	<0.06	<0.159	0.00	54.60	3,538.08
	09/28/22	NS	NS	NS	NS	NS	NS	0.00	54.67	3,537.87
	12/07/22	<1.0	<2.0	<1.0	<2.0	<0.06	<0.147	0.00	54.88	3,537.77
duplicate	12/07/22	<1.0	<2.0	<1.0	<2.0	<0.06	<0.148	0.00	54.98	3,537.77
HTRW-1	02/24/24	0.40	104	~1 N	56.0	2.26	0.204	0.00	40.70	2 520 40
nikw-1	03/24/21 06/08/21	849 765	124 86.3	<1.0 <1.0	56.8 46.1	2.36 1.70	0.204 <0.147	0.00	49.72 49.90	3,538.42 3,538.24
	09/22/21	1.20	<2.0	<1.0	<2.0	<0.06	<0.147	0.00	50.00	3,538.14
	12/01/21	2.49	10.4	<1.0	<2.0	<0.06	<0.152	0.00	50.22	3,537.92
	03/23/22	585	18.3	12.0	21.9	1.28	<0.153	0.00	50.28	3,537.86
	06/01/22	1.53	1.38	<1.0	<2.0	<0.06	<0.151	0.00	50.34	3,537.80
	09/28/22	0.429	<2.0	<1.0	<2.0	<0.06	0.321	0.00	50.56	3,537.58
	12/07/22	<1.0	<2.0	<1.0	<2.0	<0.06	<0.149	0.00	50.68	3,537.46
LITEUR	00/04/04	NO	NO	N/O	110	110	NO	0.00	40.40	0.500.44
HTRW-2	03/24/21	NS	NS NC	NS NC	NS	NS NC	NS	0.00	49.10	3,538.41
	06/08/21 09/22/21	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	0.00	49.23 49.34	3,538.28
	12/01/21	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	0.00	49.34	3,538.17 3.537.95
	03/23/22	NS	NS	NS	NS	NS	NS	0.00	49.69	3,537.82
	06/01/22	NS	NS	NS	NS	NS	NS	0.00	49.76	3,537.75
	09/28/22	NS	NS	NS	NS	NS	NS	0.00	49.99	3,537.52
	12/07/22	NS	NS	NS	NS	NS	NS	0.00	49.98	3,537.53

Table 1 Summary of Groundwater Hydrocarbon Results for 2021/2022 HF Sinclair - Hobbs Tank 5201 - Lea County, New Mexico

Monitor Well ID	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Xylenes (μg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Product Thickness (ft)	Depth to Water (ft-bmp)	Groundwater Elevation (ft-msl)
NMWQCC										
Groundwater										
Standards		5	1000	700	620	NE	NE			
HTRW-3	03/24/21	NS	NS	NS	NS	NS	NS	0.02	50.32	3,538.43
	06/08/21	NS	NS	NS	NS	NS	NS	0.00	50.46	3,538.29
	09/22/21	NS	NS	NS	NS	NS	NS	0.00	50.55	3,538.20
	12/01/21	NS	NS	NS	NS	NS	NS	0.00	50.81	3,537.94
	03/23/22	NS	NS	NS	NS	NS	NS	0.00	50.90	3,537.85
	06/01/22	NS	NS	NS	NS	NS	NS	0.00	51.05	3,537.70
	09/28/22	NS	NS	NS	NS	NS	NS	0.00	51.20	3,537.55
	12/07/22	NS	NS	NS	NS	NS	NS	0.00	52.26	3,536.49
HTRW-4	03/24/21	NS	NS	NS	NS	NS	NS	0.00	50.11	3,538.46
	06/08/21	NS	NS	NS	NS	NS	NS	0.00	50.35	3,538.22
	09/22/21	NS	NS	NS	NS	NS	NS	0.00	50.38	3,538.19
	12/01/21	NS	NS	NS	NS	NS	NS	0.00	50.66	3,537.91
	03/23/22	NS	NS	NS	NS	NS	NS	0.00	50.65	3,537.92
	06/01/22	NS	NS	NS	NS	NS	NS	0.00	50.78	3,537.79
	09/28/22	NS	NS	NS	NS	NS	NS	0.00	51.03	3,537.54
	12/07/22	NS	NS	NS	NS	NS	NS	0.00	51.02	3,537.55
RW-1	03/24/21	NS	NS	NS	NS	NS	NS	0.00	53.72	3,535.37
IZAA-1	06/08/21	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	0.00	53.72	3,535.31
	09/22/21	NS	NS	NS	NS NS	NS NS	NS	0.00	53.76	3,535.20
	12/01/21	NS	NS	NS	NS NS	NS NS	NS NS	0.00	54.07	3,535.20
	03/23/22	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	0.00	54.07	3,535.02
	06/01/22	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	0.00	54.25	3,534.83
	09/28/22	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	0.00	54.59	-,
	12/07/22	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	0.00	54.62	3,534.50 3,534.47
	12/01/22	ON	INO	INO	CNI	INO	INO	0.00	54.02	3,334.47

Notes:

BOLD = Exceeds New Mexico Water Quality Commission (NMWQC) Standard

μg/L = microgram per liter

< = Not detected above indicated level

ft-bmp - feet-below measuring point

ft-msl - feet-mean sea level

NSP - Not Sampled Product NS - Not Sampled

NA - Not Analyzed

NE - Not Established

BTEX = Benzene, Toluene, Ethylbenzene and Xylenes
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons-Diesel Range Organics

BTEX analyzed by Method SW8260C

TPH-GRO analyzed by Method 8015V

TPH-DRO analyzed by Method 8015D

Table 2 Summary of Groundwater QA/QC Results for 2022 HF Sinclair - Hobbs Tank 5201 - Lea County, New Mexico

		Laboratory Analytical Results								
		Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH- GRO	TPH- DRO			
Well No.	Date Sampled	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)			
NMWQC Grou	ndwater Standards	5	1000	700	620	NE	NE			
MW-5	12/07/22	<1.0	<2.0	<1.0	<2.0	<0.06	<0.147			
	12/07/22	<1.0	<2.0	<1.0	<2.0	<0.06	<0.148			
Trip Blank	06/01/22	<1.0	<2.0	<1.0	<1.0	<0.06	NA			
Trip Blank	09/28/22	<1.0	<2.0	<1.0	<1.0	<0.06	NA			
Trip Blank	12/07/22	<1.0	<2.0	<1.0	<1.0	<0.06	NA			

Notes:

 $(\mu g/L)$ = micrograms per liter mg/L= micrograms per liter

< = Not detected above indicated level

NE - Not Estalished

NA - Not Analyzed

BTEX = Benzene, Toluene, Ethylbenzene and Xylenes

BTEX analyzed by Method EPA 8260C

TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Oganics

TPH-DRO = Total Petroleum Hydrocarbons-Diesel Range Oganics

TPH-GRO analyzed by Method 8015V

TPH-DRO analyzed by Method 8015D

Mercury analyzed by Method SW7470A

Chloride, Nitrate and Sulfate analyzed by Method E300

Bicarbonate analyzed by Method M2320B

TDS analyzed by Method M2540C

All other metals analyzed by Method SW6020A

Appendix A Summary of Historical Fluid Levels

Well ID/MP Elevation	Date	DTP (ft-bmp)	DTW (ft-bmp)	Prod. Thick (ft)	TD (ft-bmp)	Groundwater Elevation (ft-msl)	Corrected Groundwater Elevation ¹ (ft-msl)	Totalize
RW-1	08/07/12	48.06	51.01	2.95	58.19	3538.08	3,540.23	· · · ·
3589.09	12/20/12 06/20/13	48.47	51.48	3.01		3537.61	3,539.81	
	08/23/13	48.89 49.05	51.65 51.95	2.76 2.90		3537.44 3537.14	3,539.45 3,539.26	0
	10/30/13	40.00	01.00	2.50		0.00	3,589.09	-
	11/02/13							9.7
	11/13/13							9.9
	12/11/13	49.69	49.70	0.01		3539.39	3,539.40	10.0
	03/18/14	50.19	49.92 50.20	0.00		3539.17 3538.89	3,539.17 3,538.90	11.1
	12/11/14	50.19	50.20	0.06		3538.62	3,538.66	13.1
	03/18/15	50.60	50.73	0.13		3538.36	3,538.45	
	06/11/15	trace	50.75	0.00		3538.34	3538.34	
	08/12/15		50.93	0.00		3538.16	3,538.16	
	09/17/15		51.02	0.00		3538.07	3,538.07	
	12/17/15 06/07/16	trace	50.92 51.32	0.00		3538.17 3537.77	3538.17 3,537.77	
	09/26/16		50.98	0.00		3538.11	3,538.11	
	10/28/16		50.96	0.00		3538.13	3,538.13	
	12/13/16		51.46	0.00		3537.63	3,537.63	
	01/23/17		51.55	0.00		3537.54	3,537.54	
	02/20/17		51.65	0.00		3537.44	3,537.44	
	03/13/17 04/20/17	 	51.60 51.61	0.00		3537.49 3537.48	3,537.49	
	04/20/17	 	51.61	0.00		3537.48 3537.38	3,537.48 3,537.38	
	09/20/17		51.71	0.00	1	3537.30	3,537.30	
	12/07/17		51.91	0.00		3537.18	3,537.18	
	01/24/18	51.99	52.04	0.05		3537.05	3,537.09	
	02/22/18		52.06	0.00		3537.03	3,537.03	·
	03/14/18		52.06	0.00		3537.03	3,537.03	
	06/06/18	 	51.25 52.48	0.00		3537.84 3536.61	3,537.84 3,536.61	
	09/24/18 12/12/18	 	52.48	0.00		3536.61 3536.61	3,536.61	
	03/12/19	52.64	52.66	0.02	1	3536.43	3,536.44	
	09/20/19		52.95	0.00		3536.14	3,536.14	
	12/04/19		53.10	0.00		3535.99	3,535.99	_
	03/12/20		53.19	0.00		3535.90	3,535.90	
	06/16/20		53.30	0.00		3535.79	3,535.79	
	09/16/20		53.43	0.00		3535.66	3,535.66	
	12/02/20 03/24/21		53.76 53.72	0.00		3535.33 3535.37	3,535.33 3,535.37	
	06/08/21		53.78	0.00		3535.31	3,535.31	
	09/22/21		53.89	0.00		3535.20	3,535.20	
	12/01/21		54.07	0.00		3535.02	3,535.02	
	03/23/22		54.26	0.00		3534.83	3,534.83	
	06/01/22 09/28/22		54.35 54.59	0.00		3534.74 3534.50	3,534.74	
				0.00			3,534.50	
							-	
	12/07/22		54.62	0.00		3534.47	3,534.47	
MW-1	12/07/22 08/07/12	47.88	54.62 51.50	0.00 3.62	52.59	3534.47 3540.55	3,534.47 3,543.19	
MW-1 3592.05	12/07/22 08/07/12 12/20/12	48.32	54.62 51.50 51.55	0.00 3.62 3.23	52.59	3534.47 3540.55 3540.50	3,534.47 3,543.19 3,542.86	
	12/07/22 08/07/12 12/20/12 06/20/13	48.32 48.68	54.62 51.50 51.55 51.50	0.00 3.62 3.23 2.82	52.59	3534.47 3540.55 3540.50 3540.55	3,534.47 3,543.19 3,542.86 3,542.61	
	12/07/22 08/07/12 12/20/12 06/20/13 10/30/13	48.32 48.68 48.96	54.62 51.50 51.55 51.50 51.53	0.00 3.62 3.23 2.82 2.57	52.59	3534.47 3540.55 3540.50 3540.55 3540.55	3,534.47 3,543.19 3,542.86 3,542.61 3,542.40	
	12/07/22 08/07/12 12/20/12 06/20/13	48.32 48.68	54.62 51.50 51.55 51.50	0.00 3.62 3.23 2.82	52.59	3534.47 3540.55 3540.50 3540.55	3,534.47 3,543.19 3,542.86 3,542.61	
	12/07/22 08/07/12 12/20/12 06/20/13 10/30/13 11/02/13 11/13/13 12/11/13	48.32 48.68 48.96 49.04 49.06 49.15	54.62 51.50 51.55 51.50 51.53 51.54 51.58 51.55	0.00 3.62 3.23 2.82 2.57 2.50 2.52 2.40	52.59	3534.47 3540.55 3540.50 3540.55 3540.52 3540.51 3540.47 3540.50	3,534.47 3,543.19 3,542.86 3,542.61 3,542.40 3,542.34 3,542.31 3,542.25	
	08/07/12 12/20/12 12/20/12 06/20/13 10/30/13 11/02/13 11/13/13 12/11/13 06/19/14	48.32 48.68 48.96 49.04 49.06 49.15 49.65	54.62 51.50 51.55 51.50 51.53 51.54 51.58 51.55 51.59	0.00 3.62 3.23 2.82 2.57 2.50 2.52 2.40 1.94	52.59	3534.47 3540.55 3540.50 3540.55 3540.52 3540.51 3540.47 3540.50 3540.46	3,534.47 3,543.19 3,542.86 3,542.61 3,542.40 3,542.34 3,542.34 3,542.35 3,542.85	
	12/07/22 08/07/12 12/20/12 06/20/13 10/30/13 11/02/13 11/13/13 12/11/13 06/19/14 12/11/14	48.32 48.68 48.96 49.04 49.06 49.15 49.65 50.26	54.62 51.50 51.55 51.50 51.53 51.54 51.58 51.55 51.59 51.26	0.00 3.62 3.23 2.82 2.57 2.50 2.52 2.40 1.94 1.00	52.59	3534.47 3540.55 3540.50 3540.55 3540.52 3540.51 3540.47 3540.40 3540.79	3,534.47 3,543.19 3,542.86 3,542.61 3,542.40 3,542.34 3,542.31 3,542.25 3,541.88 3,541.52	
	12/07/22 08/07/12 12/20/12 06/20/13 10/30/13 11/02/13 11/13/13 12/11/13 12/11/14 03/18/15	48.32 48.68 48.96 49.04 49.06 49.15 49.65	54.62 51.50 51.55 51.50 51.53 51.54 51.58 51.55 51.59 51.26 51.71	3.62 3.23 2.82 2.57 2.50 2.52 2.40 1.94 1.00	52.59	3534.47 3540.55 3540.50 3540.55 3540.51 3540.47 3540.47 3540.46 3540.79 3540.34	3,534.47 3,542.86 3,542.61 3,542.40 3,542.34 3,542.31 3,542.25 3,541.88 3,541.52 3541.30	
	12/07/22 08/07/12 12/20/12 06/20/13 10/30/13 11/02/13 11/13/13 12/11/13 06/19/14 12/11/14 03/18/15 06/11/15	48.32 48.68 48.96 49.04 49.06 49.15 49.65 50.26	54.62 51.50 51.55 51.50 51.53 51.54 51.58 51.55 51.59 51.26	0.00 3.62 3.23 2.82 2.57 2.50 2.52 2.40 1.94 1.00	52.59	3534.47 3540.55 3540.50 3540.55 3540.52 3540.51 3540.47 3540.40 3540.79	3,543.47 3,542.86 3,542.86 3,542.61 3,542.40 3,542.31 3,542.31 3,542.25 3,541.82 3,541.52 3,541.52 3,541.52 3,541.52	
	12/07/22 08/07/12 12/20/12 06/20/13 10/30/13 11/02/13 11/13/13 12/11/13 12/11/14 03/18/15	48.32 48.68 48.96 49.04 49.06 49.15 49.65 50.26 50.39	54.62 51.50 51.55 51.50 51.53 51.54 51.58 51.55 51.59 51.26 51.71	0.00 3.62 3.23 2.82 2.57 2.50 2.52 2.40 1.94 1.00 1.32 0.00	52.59	3534.47 3540.55 3540.50 3540.55 3540.52 3540.51 3540.47 3540.50 3540.46 3540.79 3540.34 3541.39	3,534.47 3,542.86 3,542.61 3,542.40 3,542.34 3,542.31 3,542.25 3,541.88 3,541.52 3541.30	
	12/07/22 08/07/12 12/20/12 06/20/13 10/30/13 11/02/13 11/13/13 12/11/13 06/19/14 12/11/14 12/11/14 03/18/15 06/11/15	48.32 48.68 48.96 49.04 49.06 49.15 49.65 50.26 50.39	54.62 51.50 51.55 51.55 51.53 51.54 51.58 51.55 51.59 51.26 51.71 50.66 51.32	0.00 3.62 3.23 2.82 2.57 2.50 2.52 2.40 1.94 1.00 1.32 0.00 0.53	52.59	3534.47 3540.55 3540.50 3540.52 3540.52 3540.51 3540.47 3540.50 3540.40 3540.79 3540.34 3540.33 3540.73	3,534.47 3,542.86 3,542.86 3,542.61 3,542.34 3,542.34 3,542.31 3,542.25 3,541.88 3,541.52 3541.30 3541.30 3541.39	
	12/07/22 08/07/12 12/20/12 06/20/13 11/02/13 11/13/13 12/11/13 06/19/14 12/11/14 03/18/15 06/17/15 08/12/15 06/07/16	48.32 48.68 48.96 49.04 49.06 49.15 49.65 50.26 50.39	54.62 51.50 51.55 51.50 51.53 51.54 51.58 51.55 51.59 51.26 51.71 50.66 51.32 51.12 50.87	0.00 3.62 3.23 2.82 2.57 2.50 2.52 2.40 1.94 1.00 1.32 0.00 0.53 0.00 0.00	52.59	3534.47 3540.55 3540.50 3540.50 3540.52 3540.51 3540.52 3540.51 3540.47 3540.40 3540.34 3540.34 3540.34 3540.33 3540.34 3540.33	3,534.47 3,542.86 3,542.61 3,542.40 3,542.40 3,542.31 3,542.31 3,542.25 3,541.88 3,541.52 3541.30 3541.30 3541.12 3540.93 3541.18 3540.83	
	12/07/22 08/07/12 12/20/12 06/20/13 10/20/13 11/02/13 11/13/13 12/11/14 03/18/15 06/19/14 08/12/15 08/17/15 08/17/16 09/26/16	48.32 48.68 48.96 49.04 49.06 49.15 49.65 50.26 50.39	54.62 51.50 51.55 51.50 51.53 51.58 51.55 51.59 51.26 51.71 50.66 51.32 51.12 50.87 51.22 50.90	0.00 3.62 3.23 2.82 2.57 2.50 2.52 2.40 1.94 1.32 0.00 0.00 0.00 0.00 0.00	52.59	3534.47 3540.55 3540.50 3540.50 3540.52 3540.52 3540.52 3540.47 3540.50 3540.49 3540.79 3540.34 3541.39 3540.73 3540.73 3540.83 3541.18	3,534.47 3,543.19 3,542.86 3,542.81 3,542.40 3,542.31 3,542.31 3,542.25 3,541.88 3,541.52 3541.30 3541.12 3540.93 3541.12 3540.83 3541.15	
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	12/07/22 08/07/12 12/20/12 06/20/13 10/30/13 11/02/13 11/13/13 06/19/14 12/11/14 03/11/14 03/11/15 06/11/15 08/12/17/15 06/07/16 09/26/16 10/28/16 10/123/17	48.32 48.68 48.96 49.04 49.06 49.15 49.05 50.26 50.39 50.79	\$4.62 \$1.50 \$1.55 \$1.55 \$1.55 \$1.53 \$1.54 \$1.55 \$1.59 \$1.26 \$1.75 \$1.26 \$1.31 \$0.66 \$1.32 \$0.87 \$1.50 \$1	0.00 3.62 3.23 2.82 2.57 2.50 2.52 2.40 1.94 1.32 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	52.59	3534.47 3540.55 3540.50 3540.50 3540.52 3540.52 3540.51 3540.47 3540.50 3540.49 3540.79 3540.34 3541.39 3541.39 3541.15 3540.83 3541.15 3541.15 3540.65 3540.65	3,534.47 3,543.19 3,542.86 3,542.61 3,542.40 3,542.31 3,542.25 3,541.82 3,541.52 3641.30 3641.12 3640.93 3641.13 3641.13 3641.13 3641.13 3641.13 3641.13	
	12/07/22 08/07/12 12/20/12 06/20/13 10/30/13 11/02/13 11/13/13 06/19/14 12/11/14 08/12/17 08/12/17 06/07/16 10/28/16 10/28/16 10/28/16 10/23/17 02/20/17	48.32 48.68 48.96 49.04 49.06 49.15 49.05 50.26 50.39 50.79	\$4.62 \$1.50 \$1.55 \$1.55 \$1.50 \$1.53 \$1.54 \$1.55 \$1.55 \$1.55 \$1.59 \$1.26 \$1.71 \$0.66 \$1.32 \$1.32 \$1.32 \$1.22 \$0.87 \$1.22 \$0.92 \$1.40 \$1.50 \$1.70 \$1.50 \$1	0.00 3.62 3.23 2.82 2.57 2.50 2.52 2.40 1.94 1.00 0.53 0.00 0.00 0.00 0.00 0.00 0.00 0	52.59	3534.47 3540.55 3540.50 3540.50 3540.52 3540.52 3540.47 3540.50 3540.47 3540.79 3540.79 3540.73 3541.73 3540.83 3541.15 3541.15 3541.15 3541.15 3540.65 3540.65 3540.65 3540.65 3540.65 3540.65	3,534.47 3,543.19 3,542.86 3,542.61 3,542.40 3,542.34 3,542.34 3,542.25 3,541.88 3,541.52 3541.30 3541.39 3541.12 3540.93 3541.18 3540.93 3541.15 3540.66 3540.65 3540.55	
	12/07/22 08/07/12 12/20/12 06/20/13 11/02/13 11/02/13 11/13/13 06/19/14 12/11/14 03/18/15 06/11/15 08/12/15 08/17/15 12/17/15 08/06/17 09/26/16 12/13/16 10/28/16 12/13/17 02/20/17 03/13/17 04/20/17	48.32 48.68 48.96 49.04 49.06 49.15 49.05 50.26 50.39 50.79	\$4.62 \$1.50 \$1.55 \$1.55 \$1.50 \$1.53 \$1.54 \$1.55 \$1.55 \$1.55 \$1.59 \$1.26 \$1.71 \$0.66 \$1.32 \$1.12 \$0.87 \$1.22 \$0.87 \$1.50 \$0.92 \$1.40 \$1.55	0.00 3.62 3.23 2.82 2.57 2.50 2.52 2.40 1.94 1.00 0.53 0.00 0.00 0.00 0.00 0.00 0.00 0	52.59	3534.47 3540.55 3540.55 3540.55 3540.55 3540.51 3540.47 3540.50 3540.46 3540.79 3540.34 3541.39 3540.33 3541.18 3540.83 3541.18 3540.83 3541.15 3540.50 3540.40 3540.40	3,534.47 3,542.86 3,542.66 3,542.61 3,542.40 3,542.34 3,542.34 3,542.25 3,541.88 3,541.52 3541.30 3541.39 3541.12 3540.93 3541.15 3540.93 3541.15 3540.93 3541.15 3540.66 3540.65 3540.55 3540.50 3540.40 3540.40	
	12/07/22 08/07/12 12/20/12 08/20/13 12/20/13 10/30/13 11/02/13 11/13/13 06/19/14 12/11/14 08/12/15 08/12/15 08/12/15 09/20/16 12/13/16 01/23/17 03/13/17 04/20/17 08/06/01/17	48.32 48.68 48.96 49.04 49.05 49.15 49.65 50.26 50.39 50.79	54.62 51.50 51.55 51.50 51.53 51.54 51.58 51.59 51.26 51.32 51.12 50.66 51.32 51.12 50.90 50.90 51.55 51.55 51.55 51.55 51.55 51.55 51.55 51.57 51.75 51.75 51.75 51.75	0.00 3.62 3.23 2.82 2.57 2.50 2.52 2.40 1.94 1.00 0.53 0.00 0.00 0.00 0.00 0.00 0.00 0	52.59	3534.47 3540.55 3540.50 3540.50 3540.51 3540.51 3540.51 3540.47 3540.50 3540.40 3540.34 3540.34 3541.39 3540.33 3541.15 3540.65 3540.65 3540.65 3540.65 3540.50 3540.65 3540.50 3540.65 3540.50 3540.40 3540.50 3540.40 3540.50 3540.40 3540.50 3540.40 3540.50 3540.40 3540.50 3540.40 3540.50 3540.40	3,534.47 3,542.86 3,542.86 3,542.81 3,542.40 3,542.34 3,542.35 3,541.82 3,541.30 3541.30 3541.30 3541.12 3540.93 3541.13 3540.83 3541.15 3540.65 3540.55 3540.47 3540.40 3540.47 3540.43 3540.33 3540.32	
	12/07/22 08/07/12 12/20/12 06/20/13 10/30/13 11/02/13 11/13/13 06/19/14 12/11/14 03/18/15 06/11/15 06/11/15 06/12/16 10/28/	48.32 48.68 48.96 49.04 49.05 50.29 50.39 50.79 51.38 51.49	\$4.62 \$1.50 \$1.55 \$1.50 \$1.55 \$1.50 \$1.53 \$1.54 \$1.55 \$1.55 \$1.55 \$1.26 \$1.72 \$0.87 \$1.22 \$0.87 \$1.55 \$1.50 \$1.70 \$1.50 \$1.70 \$1.50 \$1.70 \$1.50 \$1.70 \$1.50 \$1	0.00 3.62 3.23 2.82 2.57 2.50 2.52 2.40 1.94 1.00 0.53 0.00 0.00 0.00 0.00 0.00 0.00 0	52.59	3534.47 3540.55 3540.50 3540.55 3540.55 3540.52 3540.57 3540.57 3540.50 3540.47 3540.34 3541.39 3541.18 3541.13 354	3,534.47 3,543.19 3,542.86 3,542.61 3,542.40 3,542.31 3,542.25 3,541.82 3,541.52 3,541.52 3,541.82 3,541.93 3,541.93 3,541.12 3,540.93 3,541.12 3,540.83 3,541.13 3,541.14 3,540.83 3,541.15 3,541.16 3,540.83 3,541.16 3,540.83 3,541.16 3,540.83 3,541.16 3,540.83 3,541.16 3,540.83 3,541.16 3,540.83 3,540.	
	12/07/22 08/07/12 12/20/12 08/20/13 12/20/13 10/30/13 11/02/13 11/13/13 06/19/14 12/11/14 08/12/15 08/12/15 08/12/15 09/20/16 12/13/16 01/23/17 03/13/17 04/20/17 08/06/07/17	48.32 48.68 48.96 49.04 49.05 49.15 49.65 50.26 50.39 50.79	54.62 51.50 51.55 51.50 51.53 51.54 51.58 51.59 51.26 51.32 51.12 50.66 51.32 51.12 50.90 50.90 51.55 51.55 51.55 51.55 51.55 51.55 51.55 51.57 51.75 51.75 51.75 51.75	0.00 3.62 3.23 2.82 2.57 2.50 2.52 2.40 1.94 1.00 0.53 0.00 0.00 0.00 0.00 0.00 0.00 0	52.59	3534.47 3540.55 3540.50 3540.50 3540.51 3540.51 3540.51 3540.47 3540.50 3540.40 3540.34 3540.34 3541.39 3540.33 3541.15 3540.65 3540.65 3540.65 3540.65 3540.50 3540.65 3540.50 3540.65 3540.50 3540.40 3540.50 3540.40 3540.50 3540.40 3540.50 3540.40 3540.50 3540.40 3540.50 3540.40 3540.50 3540.40	3,534.47 3,542.86 3,542.86 3,542.81 3,542.40 3,542.34 3,542.35 3,541.82 3,541.30 3541.30 3541.30 3541.12 3540.93 3541.13 3540.83 3541.15 3540.65 3540.55 3540.47 3540.40 3540.47 3540.43 3540.33 3540.32	
	12/07/22 08/07/12 12/20/12 06/20/13 10/30/13 11/02/13 11/13/13 06/19/14 12/11/14 03/18/15 06/11/15 08/12/15 09/17/15 12/17/15 08/02/6/16 10/28/16 10/28/16 10/28/16 10/28/17 02/20/17 03/13/17 04/20/17 04/20/17 09/20/17 12/07/17 12/07/17	48.32 48.68 48.96 49.04 49.05 50.29 50.39 50.79 51.38 51.49	\$4.62 \$1.50 \$1.55 \$1.55 \$1.50 \$1.53 \$1.54 \$1.55 \$1.55 \$1.55 \$1.59 \$1.26 \$1.71 \$0.66 \$1.32 \$1.12 \$0.87 \$1.22 \$0.87 \$1.22 \$0.92 \$1.40 \$1.55 \$1	0.00 3.62 3.23 2.82 2.57 2.50 2.52 2.40 1.94 1.00 0.53 0.00 0.00 0.00 0.00 0.00 0.00 0	52.59	3534.47 3540.55 3540.55 3540.55 3540.55 3540.55 3540.65 3540.47 3540.50 3540.46 3540.79 3540.34 3541.39 3540.33 3541.18 3540.83 3541.15 3541.15 3540.50 3540.65	3,534.47 3,543.19 3,542.86 3,542.61 3,542.40 3,542.34 3,542.34 3,542.25 3,541.88 3,541.52 3541.39 3541.12 3540.93 3541.15 3540.83 3541.15 3540.83 3541.15 3540.66 3540.55 3540.50 3540.47 3540.40 3540.32	
	12/07/22 08/07/12 12/20/12 06/20/13 10/20/13 11/02/13 11/02/13 11/02/13 11/13/13 06/19/14 12/11/14 03/18/15 06/11/15 09/17/15 09/17/15 09/26/16 01/28/16 01/23/17 04/20/17 06/07/16 09/26/17 09/20/17 12/07/17	48.32 48.68 48.96 49.04 49.05 50.29 50.39 50.79 51.38 51.49	\$4.62 \$1.50 \$1.55 \$1.55 \$1.50 \$1.53 \$1.54 \$1.58 \$1.55 \$1.59 \$1.26 \$1.71 \$0.66 \$1.32 \$1.12 \$0.92 \$1.12 \$0.92 \$1.140 \$1.55 \$1.57 \$1.55 \$1.57 \$1.55 \$1.57 \$	0.00 3.62 3.23 2.82 2.57 2.50 2.40 1.94 1.00 1.32 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	52.59	3534.47 3540.55 3540.50 3540.50 3540.51 3540.51 3540.51 3540.79 3540.93 3540.34 3540.34 3541.39 3540.93 3541.15 3540.65 3540.50 3540.65 3540.50 354	3,534.47 3,542.86 3,542.86 3,542.81 3,542.40 3,542.34 3,542.35 3,541.82 3,541.82 3,541.92 3541.13 3541.13 3541.13 3541.13 3540.83 3541.15 3541.15 3541.15 3540.66 3540.55 3540.40 3540.40 3540.40 3540.40 3540.31 3540.40 3540.32 3540.32 3540.32 3540.33 3540.32	
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	12/07/22 08/07/12 12/20/12 06/20/13 10/30/13 11/02/13 11/02/13 11/13/13 06/19/14 12/11/13 06/19/14 12/11/15 06/11/15 06/17/15 12/17/15 06/06/16 01/28/16 10/28/	48.32 48.68 48.96 49.04 49.05 50.39 50.79 51.38 51.49 51.83 51.98	\$4.62 \$1.50 \$1.55 \$1.55 \$1.55 \$1.53 \$1.54 \$1.55 \$1.59 \$1.55 \$1.71 \$0.66 \$1.32 \$1.17 \$0.87 \$1.22 \$0.87 \$1.22 \$0.87 \$1.55 \$1.55 \$1.55 \$1.55 \$1.55 \$1.50 \$1.72 \$1.73 \$2.00 \$2.20 \$2.20 \$2.36 \$2.37 \$2.38 \$2	0.00 3.62 3.23 2.82 2.57 2.50 2.52 2.40 1.94 1.00 0.53 0.00 0.00 0.00 0.00 0.00 0.00 0	52.59	3534.47 3540.55 3540.50 3540.55 3540.50 3540.55 3540.50 3540.51 3540.73 3540.79 3540.79 3540.73 3540.73 3540.73 3540.73 3540.83 3541.18 3541.13 3541.15 3541.15 3541.15 3541.39 3540.50 3540.50 3540.65 3540.65 3540.67 3540.83 3540.	3,534.47 3,543.19 3,542.86 3,542.61 3,542.40 3,542.34 3,542.25 3,541.88 3,541.52 3541.39 3541.12 3540.93 3541.15 3540.83 3541.15 3540.83 3541.17 3540.83 3541.17 3540.83 3541.17 3540.83 3541.17 3540.83 3541.18 3540.83 3541.18 3540.83 3540.83 3540.83 3540.83 3540.83 3540.83 3540.83 3540.83 3540.83 3580.85 3580.85 3580.85 3580.85 3580.85 3580.85 3580.85 3580.85 3580.85 3580.85 3580.85 3580.85	
	12/07/22 08/07/12 12/20/12 06/20/13 10/30/13 11/02/13 11/13/13 06/19/14 12/11/14 03/18/15 06/11/15	48.32 48.68 48.96 49.04 49.05 50.39 50.79 51.38 51.49 51.83 51.98	\$4.62 \$1.50 \$1.55 \$1.55 \$1.55 \$1.53 \$1.54 \$1.55 \$1.59 \$1.26 \$1.72 \$1.27 \$0.87 \$1.22 \$0.87 \$1.22 \$0.87 \$1.55 \$2.00 \$2.20 \$2.56 \$2.37 \$2.38 \$3	0.00 3.62 3.23 2.82 2.57 2.50 2.50 1.94 1.00 0.53 0.00 0.00 0.00 0.00 0.00 0.00 0	52.59	3534.47 3540.55 3540.50 3540.55 3540.50 3540.55 3540.50 3540.52 3540.79 3540.79 3540.79 3540.73 3540.73 3540.73 3540.83 3541.18 3541.18 3541.16 3541.16 3540.65 3540.65 3540.65 3540.65 3540.65 3540.65 3540.93 3541.73 3540.83 3541.73 3540.83 3541.73 3540.83 3541.73 3540.83 3541.73 3540.83 3541.73 3540.83	3,534.47 3,543.19 3,542.86 3,542.81 3,542.40 3,542.31 3,542.25 3,541.82 3,541.52 3,541.82 3,541.83 3,541.12 3,540.83 3,541.12 3,540.83 3,541.15 3,541.83 3,541.16 3,540.83 3,541.17 3,540.83 3,541.18 3,540.83 3,541.18 3,540.83 3,541.18 3,540.83 3,541.18 3,540.83 3,541.18 3,540.83 3,	
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	12/07/22 08/07/12 12/20/12 08/07/12 12/20/13 06/20/13 10/30/13 11/02/13 11/02/13 11/02/13 11/02/13 06/19/14 12/11/14 03/18/15 06/11/15 06/11/15 06/11/15 12/17/15 06/17/16 09/26/16 10/28/16 10/28/17 01/28/17 01/28/17 01/28/18 01/28/17 01/28/18 01/28/17 01/28/18 01/28/17 01/28/18 01/28/17 01/28/18 01/28/19	48.32 48.68 48.96 49.04 49.05 50.39 50.79 51.38 51.49 51.83 51.98	54.62 51.50 51.55 51.50 51.55 51.59 51.59 51.26 51.71 50.66 51.32 51.72 50.87 51.55 51.55 51.72 50.90 50.92 51.40 51.55 51.55 51.55 51.55 51.55 51.55 51.58 51.65 51.72 52.03 52.00 52.20 52.35 52.68 53.28 53.17 53.20 53.32 dry dry dry	0.00 3.62 3.23 2.82 2.82 2.57 2.50 2.52 2.40 1.94 1.00 0.53 0.00 0.00 0.00 0.00 0.00 0.00 0	52.59	3534.47 3540.55 3540.55 3540.55 3540.55 3540.55 3540.55 3540.55 3540.57 3540.57 3540.57 3540.73 3540.73 3540.73 3541.19 3540.73 3541.18 3540.83 3541.15 3541.15 3541.15 3541.15 3540.63 3540.63 3540.63 3540.63 3540.63 3540.73 3540.83 354	3,534.47 3,543.19 3,542.86 3,542.81 3,542.40 3,542.24 3,542.21 3,542.25 3,541.88 3,541.52 3,541.93 3541.13 3541.39 3541.12 3540.93 3541.15 3540.83 3541.15 3540.83 3540.81 3540.83	
	12/07/22 08/07/12 12/20/12 06/07/12 12/20/12 06/07/12 12/20/12 06/20/13 11/02/13 11/02/13 11/02/13 11/02/13 11/03/03 11/02/13 11/03/03 11/03/03 11/03/03 11/03/03 11/03/13 06/19/14 12/11/14 06/07/16 09/26/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/20/17	48.32 48.68 48.96 49.04 49.05 50.39 50.79 51.38 51.49 51.83 51.98	\$4.62 \$1.50 \$1.55 \$1.55 \$1.55 \$1.55 \$1.55 \$1.59 \$1.55 \$1.59 \$1.59 \$1.59 \$1.59 \$1.66 \$1.71 \$0.66 \$1.32 \$1.12 \$0.87 \$1.52 \$1.40 \$1.55 \$1.55 \$1.55 \$1.55 \$1.55 \$1.55 \$1.55 \$1.55 \$1.65 \$1.71 \$0.87 \$1.22 \$0.90 \$5.99 \$5.99 \$5.99 \$5.99 \$5.99 \$5.10 \$5	0.00 3.62 3.23 2.82 2.57 2.50 2.50 1.94 1.00 1.32 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	52.59	3534.47 3540.55 3540.55 3540.55 3540.55 3540.55 3540.55 3540.52 3540.51 3540.47 3540.60 3540.43 3540.73 3540.33 3541.18 3541.39 3541.18 3541.39 3541.18 3540.65 3540.53 3540.53 3540.50 3540.65 3540.53 3540.50 3540.53 3540.50 3540.53 3540.50 3540.53 3540.53 3540.50 3540.	3,534.47 3,543.19 3,542.86 3,542.61 3,542.40 3,542.31 3,542.25 3,541.30 3,542.25 3,541.30 3,541.93 3,	
	12/07/22 08/07/12 12/20/12 06/20/13 10/30/13 11/02/13 11/02/13 11/13/13 06/19/14 12/11/14 03/18/15 06/11/15 06/11/15 06/11/15 06/17/15 12/17/15 06/06/16 10/28/	48.32 48.68 48.96 49.04 49.05 50.39 50.79 51.38 51.49 51.83 51.98	\$4.62 \$1.50 \$1.55 \$1.55 \$1.55 \$1.53 \$1.54 \$1.55 \$1.55 \$1.59 \$1.26 \$1.72 \$0.87 \$1.22 \$0.87 \$1.22 \$0.87 \$1.22 \$0.92 \$1.40 \$1.55 \$2.00 \$2.20 \$2.20 \$2.37 \$2.38 \$3.38 \$3.31 \$3.32 \$47 \$47 \$47 \$47 \$47 \$47 \$47 \$47	0.00 3.62 3.23 2.82 2.57 2.50 2.52 2.40 1.94 1.00 0.53 0.00 0.00 0.00 0.00 0.00 0.00 0	52.59	3534.47 3540.55 3540.55 3540.50 3540.55 3540.55 3540.52 3540.57 3540.57 3540.57 3540.57 3540.79 3540.79 3540.73 3541.73 3540.83 3541.73 3540.83 3541.15 3541.15 3541.15 3541.15 3541.15 3541.15 3541.15 3540.65 3540.50 3540.50 3540.50 3540.77 3536.80 3539.85 3539.85 3539.85 3539.87 3538.87 3538.87 3538.87	3,534.47 3,543.19 3,542.86 3,542.81 3,542.40 3,542.31 3,542.25 3,541.82 3,541.52 3,541.82 3,541.82 3,541.82 3,541.83 3,	
	12/07/22 08/07/12 12/20/12 06/07/12 12/20/12 06/07/12 12/20/12 06/20/13 11/02/13 11/02/13 11/02/13 11/02/13 11/03/03 11/02/13 11/03/03 11/03/03 11/03/03 11/03/03 11/03/13 06/19/14 12/11/14 06/07/16 09/26/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/28/16 10/20/17	48.32 48.68 48.96 49.04 49.05 50.39 50.79 51.38 51.49 51.83 51.98	\$4.62 \$1.50 \$1.55 \$1.55 \$1.55 \$1.55 \$1.55 \$1.59 \$1.55 \$1.59 \$1.59 \$1.59 \$1.59 \$1.66 \$1.71 \$0.66 \$1.32 \$1.12 \$0.87 \$1.52 \$1.40 \$1.55 \$1.55 \$1.55 \$1.55 \$1.55 \$1.55 \$1.55 \$1.55 \$1.65 \$1.71 \$0.87 \$1.22 \$0.90 \$5.99 \$5.99 \$5.99 \$5.99 \$5.99 \$5.10 \$5	0.00 3.62 3.23 2.82 2.57 2.50 2.50 1.94 1.00 1.32 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	52.59	3534.47 3540.55 3540.55 3540.55 3540.55 3540.55 3540.55 3540.52 3540.51 3540.47 3540.60 3540.43 3540.73 3540.33 3541.18 3541.39 3541.18 3541.39 3541.18 3540.65 3540.53 3540.53 3540.50 3540.65 3540.53 3540.50 3540.53 3540.50 3540.53 3540.50 3540.53 3540.53 3540.50 3540.	3,534.47 3,543.19 3,542.86 3,542.61 3,542.40 3,542.31 3,542.25 3,541.30 3,542.25 3,541.30 3,541.93 3,	

Well ID/MP Elevation	Date	DTP (ft-bmp)	DTW (ft-bmp)	Prod. Thick (ft)	TD (ft-bmp)	Groundwater Elevation (ft-msl)	Corrected Groundwater Elevation ¹ (ft-msl)	Totalize
MW-2	08/07/12	(III-bilip)	47.44	0.00	52.42	3543.41	(11-11151)	(gais)
3590.85	12/20/12		47.90	0.00		3542.95		
	06/25/13 12/11/13	<u> </u>	48.27 48.74	0.00	<u> </u>	3542.58 3542.11	 	
	06/19/14		49.19	0.00		3541.66		
	12/11/14		49.40	0.00		3541.45		
	03/18/15 06/11/15		49.63 49.75	0.00		3541.22 3541.10	1	
	12/16/15		49.91	0.00		3540.94		
	06/07/16 12/13/16		50.32 50.34	0.00		3540.53 3540.51		
	06/06/17		50.67	0.00		3540.18		
	09/20/17		50.67	0.00		3540.18		
	12/07/17 03/14/18		50.91 51.00	0.00		3539.94 3539.85		
	06/06/18		51.22	0.00		3539.63		
	09/24/18		51.38	0.00		3539.47		
	12/12/18 03/12/19		51.50 51.62	0.00		3539.35 3539.23	1	
	09/20/19		51.87	0.00		3538.98		
	12/04/19		51.95	0.00		3538.90		
	03/12/20 06/16/20		52.05 52.16	0.00		3538.80 3538.69		
	09/16/20		52.38	0.00		3538.47		
	12/02/20 03/24/21		52.40 dry	0.00		3538.45 dry	-	
	06/08/21		dry	0.00		dry		
	09/22/21		dry	0.00		drý		
	12/01/21		dry	0.00		dry		
	03/23/22 06/01/22	-	dry dry	0.00	-	dry dry		
	09/28/22		dry	0.00		dry		
	12/07/22		dry	0.00		dry		
MW-3	08/07/12		47.43	0.00	53.20	3543.38		
3590.81	12/20/12		47.87	0.00		3542.94		
	06/25/13 12/11/13		48.28 48.73	0.00		3542.53 3542.08	-	
	06/19/14		49.20	0.00		3541.61		
	12/11/14		49.41	0.00		3541.40		
	03/18/15		49.63	0.00		3541.18		
	06/11/15 12/16/15		49.78 49.96	0.00		3541.03 3540.85		
	06/07/16		50.33	0.00		3540.48		
	12/13/16		50.38	0.00		3540.43		
	06/06/17 09/20/17		50.68 50.43	0.00		3540.13 3540.38		
	12/07/17		50.91	0.00		3539.90		
	03/14/18		51.03 51.24	0.00		3539.78 3539.57	-	
	09/24/18		51.43	0.00		3539.38		
	12/12/18		51.55	0.00		3539.26		
	03/12/19 09/20/19		51.62 51.88	0.00		3539.19 3538.93		
	12/04/19		51.98	0.00		3538.83		
	03/12/20		52.10	0.00		3538.71		
	06/16/20 09/16/20		52.20 52.39	0.00		3538.61 3538.42		
	12/02/20		52.58	0.00		3538.23		
	03/24/21		52.70	0.00		3538.11		
	06/08/21 09/22/21		dry dry	0.00		dry dry		
	12/01/21		52.98	0.00		3537.83		
	03/23/22		dry	0.00		dry		
	06/01/22 09/28/22	-	dry dry	0.00	-	dry dry		
	12/07/22		dry	0.00		dry		
MANA/ 4					00.50			
MW-4 3590.85	08/07/12 12/20/12		47.44 47.89	0.00	62.58	3543.41 3542.96	 	
.	06/25/13		48.27	0.00		3542.58		
	12/11/13		48.72 49.18	0.00		3542.13 3541.67		
	06/19/14 12/11/14		49.18 49.45	0.00		3541.67 3541.40		
	03/18/15		49.61	0.00		3541.24		
	06/11/15		49.80 49.95	0.00		3541.05 3540.90		
	12/16/15 06/07/16		49.95 50.32	0.00		3540.90 3540.53	†	
	12/13/16		50.38	0.00		3540.47		
	06/06/17 09/20/17		50.68 50.68	0.00		3540.17 3540.17	 	
	12/07/17	1	50.00	0.00	1	3539.94	 	
	03/14/18		51.02	0.00		3539.83		
	06/06/18 09/24/18	<u> </u>	51.24 51.41	0.00	<u> </u>	3539.61 3539.44	1	
	12/12/18		51.41	0.00		3539.44		
	03/12/19		51.59	0.00		3539.26		
	09/20/19		51.92 51.95	0.00		3538.93 3538.90		
	12/04/19 03/12/20	 	51.95 52.06	0.00	 	3538.90 3538.79	 	
	06/16/20		52.17	0.00		3538.68		
	09/16/20		52.32	0.00		3538.53		
	12/02/20 03/24/21		52.49 52.66	0.00		3538.36 3538.19	 	
	06/08/21		52.81	0.00		3538.04		
	00,00,21					3537.91		
	09/22/21		52.94	0.00				
	09/22/21 12/01/21		53.27	0.00		3537.58		
	09/22/21							
	09/22/21 12/01/21 03/23/22		53.27 53.28	0.00 0.00		3537.58 3537.57		

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Appendix A Summary of Fluid Levels

HF Sinclair-Hobbs Tank 5201 - Lea County, New Mexico

Well ID/MP Elevation	Date	DTP	DTW	Prod. Thick	TD	Groundwater Elevation	Corrected Groundwater Elevation ¹	Totalizer
		(ft-bmp)	(ft-bmp)	(ft)	(ft-bmp)	(ft-msl)	(ft-msl)	(gals)
MW-5	08/07/12		48.83	0.00	58.82	3543.92		
3592.75	12/20/12		49.26	0.00		3543.49		
	06/25/13		49.64	0.00		3543.11		
	12/11/13		50.09	0.00		3542.66		
	06/19/14		50.53	0.00		3542.22		
	12/11/14 03/18/15		50.76 50.99	0.00		3541.99 3541.76		
	06/11/15		51.12	0.00		3541.63		
	12/17/15		51.33	0.00		3541.42		
	06/07/16		51.68	0.00		3541.07		
	12/13/16		51.76	0.00		3540.99		
	06/06/17		52.08	0.00		3540.67		
	09/20/17		52.07	0.00		3540.68		
	12/07/17		52.30	0.00		3540.45		
	03/14/18		52.38	0.00		3540.37		
	06/06/18 09/24/18		52.58 52.50	0.00		3540.17 3540.25		
	12/12/18		52.54	0.00		3540.21		
	03/12/19		52.97	0.00		3539.78	 	
	09/20/19		53.22	0.00		3539.53		
	12/04/19		53.34	0.00		3539.41	i l	
	03/12/20		53.40	0.00		3539.35	<u> </u>	
	06/16/20		53.58	0.00		3539.17		
	09/16/20		53.69	0.00		3539.06		
	12/02/20		53.91	0.00		3538.84		
	03/24/21		54.05	0.00		3538.70	ļI	-
	06/08/21		54.25	0.00		3538.50		
	09/22/21		54.29	0.00		3538.46		
	12/01/21 03/23/22		54.51	0.00		3538.24		
	06/01/22		54.60 54.67	0.00		3538.15 3538.08		
	09/28/22		56.88	0.00		3535.87		
	12/07/22		54.98	0.00		3537.77		
	12/01/22		01.00	0.00		0001.11		
HTRW-1	06/25/13	45.27	45.28	0.01	60.10	3542.86	3,542.87	
3588.14	12/11/13	45.78	45.79	0.01		3542.35	3,542.36	
	06/19/14		46.19	0.00		3541.95	3,541.95	
	12/11/14	45.46	45.51	0.05		3542.63	3,542.67	
	03/18/15	46.64	46.66	0.02		3541.48	3,541.49	
	06/11/15	46.81	47.61	0.80		3540.53	3,541.11	
	08/12/15		46.91	0.00		3541.23	3,541.23	
	09/17/15	40.00	46.98	0.00		3541.16	3,541.16	
	12/17/15 06/07/16	46.93	46.95 46.34	0.02		3541.19 3541.80	3,541.20 3,541.80	
	09/26/16		46.97	0.00		3541.17	3,541.17	
	10/28/16	46.94	46.95	0.00		3541.19	3,541.20	
	12/13/16	10.01	47.44	0.00		3540.70	3,540.70	
	01/23/17		47.58	0.00		3540.56	3,540.56	
	02/20/17		47.68	0.00		3540.46	3,540.46	
	03/13/17		47.62	0.00		3540.52	3,540.52	
	04/20/17		47.67	0.00		3540.47	3,540.47	
	06/06/17		47.71	0.00		3540.43	3,540.43	
	09/20/17		47.72	0.00		3540.42	3,540.42	
	12/07/17		NM 40.04	NM	ļ	NM 2540.40	NM	
	01/24/18		48.04	0.00		3540.10	3,540.10	
	02/22/18		48.08 48.03	0.00		3540.06 3540.11	3,540.06 3,540.11	
	03/14/18	 	48.03	0.00	-	3540.11 3539.92	3,540.11	
	09/24/18		48.45	0.00		3539.69	3,539.69	
	12/12/18		48.99	0.00		3539.15	3,539.15	
	03/12/19		48.70	0.00		3539.44	3,539.44	
	09/20/19		48.97	0.00		3539.17	3,539.17	
	12/04/19		48.97	0.00		3539.17	3,539.17	
	03/12/20		49.09	0.00		3539.05	3,539.05	
	06/16/20		49.20	0.00		3538.94	3,538.94	
	09/16/20		49.38	0.00		3538.76	3,538.76	
	12/02/20		49.56	0.00		3538.58	3,538.58	
	03/24/21		49.72	0.00		3538.42	3,538.42	
	06/08/21		49.90	0.00	ļ	3538.24	3,538.24	
	09/22/21		50.00	0.00		3538.14	3,538.14	
	12/01/21		50.22	0.00		3537.92	3,537.92	
	03/23/22	i	50.28	0.00	1	3537.86	3,537.86	
			E0 24	000				
	06/01/22		50.34	0.00		3537.80 3537.58	3,537.80	
			50.34 50.56 50.68	0.00 0.00 0.00		3537.80 3537.58 3537.46	3,537.80 3,537.58 3,537.46	

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Appendix A Summary of Fluid Levels

HF Sinclair-Hobbs Tank 5201 - Lea County, New Mexico

Well ID/MP Elevation	Date	DTP	DTW	Prod. Thick	TD	Groundwater Elevation	Corrected Groundwater Elevation ¹	Totalize
		(ft-bmp)	(ft-bmp)	(ft)	(ft-bmp)	(ft-msl)	(ft-msl)	(gals)
HTRW-2	06/25/13		44.60	0.00	60.14	3542.91		
3587.51	12/11/13		45.05	0.00		3542.46		
	06/19/14		45.52	0.00		3541.99		
	12/11/14		45.79	0.00		3541.72		
	03/18/15		45.95	0.00		3541.56		
	06/11/15		46.05	0.00		3541.46		
	08/12/15		46.22	0.00		3541.29		
	09/17/15		46.30	0.00		3541.21		
	12/17/15		46.25	0.00		3541.26		
	06/07/16		46.66	0.00		3540.85		
	09/26/16		46.20	0.00		3541.31		
	10/28/16		46.18	0.00		3541.33		
	12/13/16		46.74	0.00		3540.77		
	01/23/17		46.90	0.00		3540.61		
	02/20/17		46.88	0.00		3540.63		
	03/13/17		46.93	0.00		3540.58		
	04/20/17		46.96	0.00		3540.55		
	06/06/17		47.03	0.00		3540.48		
	09/20/17 12/07/17		47.08 47.25	0.00		3540.43 3540.26		
	01/24/18		48.68	0.00		3538.83		
	02/22/18		47.38	0.00		3536.63		
	03/14/18		48.42	0.00		3539.09		
	06/06/18		47.56	0.00		3539.95		
	09/24/18		47.77	0.00		3539.74		
	12/12/18		47.79	0.00		3539.72		
	03/12/19		48.01	0.00		3539.50		
	09/20/19		48.28	0.00		3539.23		
	12/04/19		48.35	0.00		3539.16		
	03/12/20		48.47	0.00		3539.04		
	06/16/20		48.59	0.00		3538.92		
	09/16/20		48.68	0.00		3538.83		
	12/02/20		48.89	0.00		3538.62		
	03/24/21		49.10	0.00		3538.41		
	06/08/21		49.23	0.00		3538.28		
	09/22/21		49.34	0.00		3538.17		
	12/01/21		49.56	0.00		3537.95		
	03/23/22		49.69	0.00		3537.82	İ	
	06/01/22		49.76	0.00		3537.75		
	09/28/22		49.99	0.00		3537.52		
	12/07/22		49.98	0.00		3537.53		

Well ID/MP Elevation	Date	DTP	DTW	Prod. Thick	TD (ft house)	Groundwater Elevation	Corrected Groundwater Elevation ¹	Totalize
LITENA *	00/05***	(ft-bmp)	(ft-bmp)	(ft)	(ft-bmp)	(ft-msl)	(ft-msl)	(gals)
HTRW-3 3588.75	06/25/13	45.87	45.88	0.01	60.14	3542.87	3,542.88	
3588.75	12/11/13	46.32	46.33	0.00		3542.42	3,542.43	
	06/19/14 12/11/14		46.79 47.03	0.00		3541.96 3541.72	3,541.96 3,541.72	
	03/18/15	47.19	47.50	0.31		3541.25	3,541.48	
	06/11/15	47.35	47.61	0.26		3541.14	3,541.33	
	08/12/15		47.60	0.00		3541.15	3,541.15	
	09/17/15	47.47	48.38	0.91		3540.37	3,541.03	
	12/17/15	47.30	49.00	1.70		3539.75	3,540.99	
	06/07/16	47.81	47.84	0.03		3540.91	3,540.93	
	09/26/16	47.48	47.60	0.12		3541.15	3,541.24	
	10/28/16	47.46	47.55	0.09		3541.20	3,541.27	
	12/13/16	47.97	48.48	0.51		3540.27	3,540.64	
	01/23/17	48.10	48.55 48.50	0.45		3540.20	3,540.53	
	02/20/17 03/13/17	48.28 48.20	48.35	0.22		3540.25 3540.40	3,540.41	
	04/20/17	48.22	48.31	0.15 0.09		3540.44	3,540.51 3,540.51	
	05/19/17	48.24	48.30	0.06		3540.45	3,540.49	
	06/06/17	48.31	48.35	0.04		3540.40	3,540.43	
	09/20/17	48.31	48.36	0.05		3540.39	3,540.43	
	12/07/17	48.60	49.35	0.75		3539.40	3,539.95	
	01/24/18	48.54	49.04	0.50		3539.71	3,540.08	
	02/22/18	48.68	48.75	0.07		3540.00	3,540.05	
	03/14/18		48.68	0.00		3540.07	3,540.07	
	06/06/18		48.88	0.00		3539.87	3,539.87	
	09/24/18	49.08	49.18	0.10		3539.57	3,539.64	
	12/12/18	48.08	48.13	0.05		3540.62	3,540.66	
	03/12/19	49.29	49.35	0.06		3539.40	3,539.44	
	09/20/19 12/04/19		49.60 49.75	0.00		3539.15 3539.00	3,539.15	
	03/12/20	1	49.75	0.00		3539.00 3538.86	3,539.00 3,538.86	
	06/16/20	49.90	49.09	0.02		3538.83	3,538.84	
	09/16/20	.0.00	50.08	0.02		3538.67	3,538.67	
	12/02/20		50.24	0.00		3538.51	3,538.51	
	03/24/21		50.32	0.00		3538.43	3,538.43	
	06/08/21		50.46	0.00		3538.29	3,538.29	
	09/22/21		50.55	0.00		3538.20	3,538.20	
	12/01/21		50.81	0.00		3537.94	3,537.94	
	03/23/22		50.90	0.00		3537.85	3,537.85	
	06/01/22		51.05	0.00		3537.70	3,537.70	
	09/28/22		51.60	0.00		3537.15	3,537.15	
	12/07/22		52.26	0.00		3536.49	3,536.49	
HTRW-4	06/25/13	-	45.68	0.00	60.16	3542.89	 	
3588.57	12/11/13		46.13	0.00	00.10	3542.44		
2000.01	06/19/14		46.59	0.00		3541.98		
	12/11/14		46.85	0.00		3541.72	i	
	03/18/15		47.03	0.00		3541.54		
	06/11/15		47.11	0.00		3541.46		
	08/12/15		47.31	0.00		3541.26		
	09/17/15		47.35	0.00		3541.22		
	12/17/15		47.32	0.00		3541.25		
	06/07/16		47.70	0.00		3540.87		
	09/26/16		47.58	0.00		3540.99		
	10/28/16		47.55	0.00		3541.02		
	12/13/16 01/23/17		47.79 47.95	0.00		3540.78 3540.62		
	02/20/17		47.95	0.00		3540.62	 	
	03/13/17		47.98	0.00		3540.59	 	
	04/20/17		48.03	0.00		3540.54	 	
	06/06/17		48.09	0.00		3540.48	1	
	09/20/17		48.19	0.00		3540.38	1	
	12/07/17		48.30	0.00		3540.27		
	01/24/18		48.40	0.00		3540.17		
	02/22/18		48.43	0.00		3540.14		
	03/14/18		48.58	0.00		3539.99		
	06/06/18		48.64	0.00		3539.93	ļ	
	09/24/18		48.78	0.00		3539.79		
	12/12/18		48.48	0.00		3540.09	 	
	03/12/19 09/20/19		49.05 49.38	0.00		3539.52 3539.19	 	
	12/04/19	1	49.38	0.00		3539.19	 	
	03/12/20		49.55	0.00		3539.02	 	
	06/16/20		49.68	0.00		3538.89	 	
	09/16/20		49.82	0.00		3538.75	 	
	12/02/20		50.01	0.00		3538.56		
	03/24/21		50.11	0.00		3538.46	1	
	06/08/21		50.35	0.00		3538.22	1	
	09/22/21		50.38	0.00		3538.19	i 1	
	12/01/21		50.66	0.00		3537.91		
	03/23/22		50.65	0.00		3537.92		
	06/01/22		50.78	0.00		3537.79		
			51.03	0.00		3537.54		
	09/28/22 12/07/22		51.02	0.00		3537.55		

Notes:
DTP - depth to product
DTW - depth to water
TD - total depth
ft - feet
ft-bmp - feet-below measuring point
ft-msl - feet-mean sea level
gals - gallons

1 groundwater elevation corrected for 0.73 specific gavity

Appendix B Summary of Historical Groundwater Analytical Results

Monitor Well ID/ MP Elevation	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (µg/L)	Total Xylenes (μg/L)	Total BTEX (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Product Thickness (feet)	Depth to Water (ft-bmp)	Groundwater Elevation (ft-msl)	Temperature (deg-C)	Conductivity (mS/cm)	DO (mg/L)	рН	ORP (m
NMWQCC Groundwater																
Standard		5	1000	700	620		NE	NE								
MW-2	08/23/04	26	4	5	14	49	NA	NA	0.00	43.45	3,547.40					
3590.85	01/11/05 03/08/06	72 <2	<2 <2	<2 <2	15 <6	87 <2	NA NA	NA NA	0.00	43.02 43.44	3,547.83 3,547.41	1				
	07/11/06	7.0	<2	<2	16	23	NA NA	NA NA	0.00	43.69	3,547.16					+
	09/07/06	4.2	1.9	<0.5	3.2	9.3	NA	NA	0.00	43.64	3,547.21					+
	12/19/06	2.1	1.0	0.9	4.3	8.3	NA	NA	0.00	43.83	3,547.02					1
	03/13/07	<0.5	0.6	1.2	2.3	4.1	NA	NA	0.00	44.04	3,546.81					
	06/21/07	0.8	0.7	<0.5	3.8	5.3	NA	NA	0.00	44.11	3,546.74					
	09/21/07 12/07/07	1.4	1.1	<0.5 0.9	3.2	5.7 6.8	NA NA	NA NA	0.00	43.87 44.17	3,546.98 3,546.68					+
	03/04/08	1.4	0.8	1.8	3.5	7.3	NA NA	NA NA	0.00	44.17	3,546.58	-				+
	06/03/08	1.7	0.0	1.5	2.1	6.2	NA	NA NA	0.00	44.42	3,546.43					+
	09/23/08	1.2	<0.5	0.6	3.8	5.6	NA	NA	0.00	44.69	3,546.16					1
	12/18/08	1.0	0.8	<0.5	1.2	3.0	NA	NA	0.00	45.82	3,545.03					
	03/16/09	0.9	0.7	<0.5	2.9	4.5	NA	NA	0.00	44.98	3,545.87					
	06/23/09	1.2	<1.0	<1.0	<2.0	1.2	NA	NA NA	0.00	45.12	3,545.73	.				<u> </u>
	09/08/09 12/17/09	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	NA NA	NA NA	0.00	45.29 45.50	3,545.56 3,545.35	-		-		+
	03/09/10	<1.0	<1.0	<1.0	<1.5	<1.0	NA NA	NA NA	0.00	45.70	3,545.15					+
	06/16/10	<1.0	<1.0	<1.0	2.5	2.5	NA	NA	0.00	45.85	3,545.00					+
	09/01/10	1.0	<1.0	<1.0	<2.0	1.0	NA	NA	0.00	45.82	3,545.03					
	12/06/10	1.6	<1.0	<1.0	<2.0	1.6	NA	NA	0.00	46.05	3,544.80					
	03/18/11	1.3	<1.0	14	2.9	18.2	NA	NA	0.00	46.18	3,544.67					
	06/23/11	1.1	<1.0	26	3.2	30.3	NA	NA	0.00	46.40	3,544.45					
	10/07/11 12/08/11	1.2 1.4	<1.0 <1.0	14	<2.0	15.2	NA	NA NA	0.00	46.75	3,544.10	-				+
	08/07/12	<1.0	< 5.0	5.7 < 5.0	3.6 < 15	10.7 < 15	NA NA	NA NA	0.00	46.91 47.44	3,543.94 3,543.41	30.34	1.615	0.05	6.48	-125
	12/20/12	<1.0	<2.0	<1.0	<2.0	<1.0	NA NA	NA NA	0.00	47.90	3,542.95	17.51	1.094	0.74	6.85	-254
	06/25/13	<1.0	<2.0	<1.0	<2.0	<1.0	NA	NA	0.00	48.27	3,542.58	22.10	1.249	0.30	6.76	-60.
	12/11/13	1.02	<2.0	<1.0	<2.0	<1.0	NA	NA	0.00	48.74	3,542.11	21.11	1.27	1.51	7.14	-117
	06/25/14	<1.0	<2.0	<1.0	1.43		NA	NA	0.00	49.19	3,541.66	19.94	1.078	1.19	6.89	-66.
	12/11/14	<1.0	<2.0	<1.0	<1.0		<0.50	0.534	0.00	49.40	3,541.45	18.67	1.192	0.58	6.60	-102
	06/11/15	<1.0	<2.0	<1.0	<1.0		<0.10	0.337	0.00	49.75	3,541.10	35.49	1.265	2.20	6.75	-100
	12/16/15	<1.0	<2.0	<1.0	<1.0		0.141	0.678	0.00	49.91	3,540.94	18.56	1.274	0.75	6.94	-76.
	06/09/16	<1.0	<2.0	<1.0	<1.0		<0.06	5.53	0.00	50.32	3,540.53	20.52	4.885	2.80	6.63	29.
	12/14/16 06/06/17	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <2.0		0.097 0.105	5.53 4.98	0.00	50.34 50.67	3,540.51 3,540.18	18.90 22.15	2.171 1.549	2.37 1.85	7.61 6.85	-72. -55.
	09/19/17	<1.0	<2.0	<1.0	<2.0		0.103	2.74	0.00	50.67	3,540.18	22.80	1.627	0.96	6.71	-71.
	12/06/17	<1.0	<2.0	<1.0	<2.0		<0.06	0.795	0.00	50.91	3,539.94	19.01	2.887	1.21	7.01	-44.
	03/14/18	<1.0	<2.0	<1.0	<2.0		0.101	1.91	0.00	51.00	3,539.85	21,11	1.403	0.98	6.87	-13.
	06/05/18	<1.0	<2.0	<1.0	<2.0		0.140	1.89	0.00	51.22	3,539.63	22.85	1.787	1.07	6.93	-56.
	09/24/18	<1.0	<2.0	<1.0	<2.0		<0.06	2.33	0.00	51.38	3,539.47	22.55	2.011	1.57	7.16	-33.
	12/12/18	<1.0	<2.0	<1.0	<2.0		<0.06	2.56	0.00	51.50	3,539.35	19.83	2.334	1.33	7.22	-39
	03/12/19	<1.0	<2.0	<1.0	<2.0		0.091	NA	0.00	51.62	3,539.23	20.04	1.906	1.04	7.07	-60
	09/20/19	<1.0	<2.0	<1.0	<2.0		<0.06	NA NA	0.00	51.87	3,538.98	21.66	2.112	1.26	6.96	-26.
	12/04/19 03/12/20	<1.0 NS-Dry	<2.0 NS-Dry	<1.0 NS-Dry	<2.0 NS-Dry		<0.06 NS-Dry	NA NS-Dry	0.00	51.95 52.05	3,538.90 3,538.80	19.92 NS-Dry	1.883 NS-Dry	1.11 NS-Dry	7.12 NS-Dry	-45. NS-E
	03/12/20	NS-Dry NS-Dry	NS-Dry NS-Drv	NS-Dry NS-Drv	NS-Dry NS-Dry		NS-Dry NS-Dry	NS-Dry NS-Dry	0.00	52.05	3,538.80	NS-Dry NS-Dry	NS-Dry NS-Dry	NS-Dry	NS-Dry	NS-L
	09/16/20	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	52.16	3,538.47	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-E
	12/02/20	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	52.40	3,538.45	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-E
	03/24/21	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	dry	dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	
	06/08/21	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	dry	dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	
	09/22/21	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	dry	dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-E
•	12/01/21	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	dry	dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-I
	03/23/22	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	dry	dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-E
	06/01/22	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	dry	dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-E
	09/28/22	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	dry	dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-E
	12/07/22	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	dry	dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-I

Monitor Well ID/ MP Elevation	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Product Thickness (feet)	Depth to Water (ft-bmp)	Groundwater Elevation (ft-msl)	Temperature (deg-C)	Conductivity (mS/cm)	DO (mg/L)	pН	ORP (mV
NMWQCC Groundwater Standard		5	1000	700	620		NE	NE								
MW-3	08/23/04	<2	<2	<2	<6	<2	NA	NA	0.00	43.50	3,547.31					
3590.81	01/11/05	<2	<2	<2	<6	<2	NA NA	NA NA	0.00	42.93	3,547.88					
3330.01	03/08/06	<2	<2	<2	<6	<2	NA	NA	0.00	43.35	3,547.46					
	07/11/06	<2	<2	<2	<6	<2	NA	NA	0.00	43.63	3,547.18					
	09/07/06	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	0.00	43.61	3,547.20					
	12/19/06	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	0.00	43.76	3,547.05					
	03/13/07	<0.5	<0.5	<0.5	<1.0	<0.5	NA	NA	0.00	43.97	3,546.84					
	06/21/07 09/21/07	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 <1.0	<0.5 <0.5	NA NA	NA NA	0.00	44.03 43.83	3,546.78 3,546.98					
	12/07/07	<0.5	<0.5	<0.5	<1.0	<0.5	NA NA	NA NA	0.00	44.11	3,546.70					
	03/04/08	<0.5	<0.5	<0.5	<1.0	<0.5	NA NA	NA	0.00	44.32	3,546.49					
	06/03/08	<0.5	<0.5	<0.5	<1.0	<0.5	NA	NA	0.00	44.35	3,546.46	İ				
	09/23/08	<0.5	<0.5	<0.5	<1.0	<0.5	NA	NA	0.00	44.65	3,546.16					
	12/18/08	<0.5	<0.5	<0.5	<1.0	<0.5	NA	NA	0.00	44.77	3,546.04					
	03/16/09	< 0.5	<0.5	<0.5	<1.0	<0.5	NA	NA	0.00	44.92	3,545.89					
	06/23/09 09/08/09	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	NA NA	NA NA	0.00	45.08	3,545.73 3,545.57					
	12/17/09	<1.0	<1.0	<1.0	<2.0	<1.0	NA NA	NA NA	0.00	45.24 45.44	3,545.57	 	1			1
	03/09/10	<1.0	<1.0	<1.0	<1.5	<1.0	NA	NA	0.00	45.66	3,545.15					
	06/16/10	<1.0	<1.0	<1.0	<2.0	<1.0	NA	NA	0.00	45.80	3,545.01					
	09/01/10	<1.0	<1.0	<1.0	<2.0	<1.0	NA	NA	0.00	45.80	3,545.01					
	12/06/10	<1.0	<1.0	<1.0	<2.0	<1.0	NA	NA	0.00	46.00	3,544.81					
	03/18/11	<1.0	<1.0	<1.0	<2.0	<1.0	NA	NA	0.00	46.14	3,544.67					
	06/23/11 10/07/11	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	NA NA	NA NA	0.00	46.38 46.72	3,544.43 3,544.09	-				
	12/08/11	<1.0	<1.0	<1.0	<2.0	<1.0	NA NA	NA NA	0.00	46.72	3,543.94					
	08/07/12	< 5.0	< 5.0	< 5.0	< 15	< 15	NA	NA	0.00	47.43	3,543.38	30.29	1.875	0.72	5.80	109.3
	12/20/12	<1.0	<2.0	<1.0	<2.0	<2.0	NA	NA	0.00	47.87	3,542.94	17.39	1.108	1.28	6.87	-269.0
duplicate	12/20/12	<1.0	<2.0	<1.0	<2.0	<2.0	NA	NA	0.00	47.87	3,542.94	17.39	1.108	1.28	6.87	-269.0
	06/25/13	<1.0	<2.0	<1.0	<2.0	<2.0	NA	NA	0.00	48.28	3,542.53	20.80	1.453	1.98	6.60	204.9
describe etc.	12/11/13	<1.0	<2.0	<1.0	<2.0	<2.0	NA	NA	0.00	48.73	3,542.08	19.80	1.540	4.40	6.76	152.0
duplicate	12/11/13 06/24/14	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<2.0 1.61	<2.0	NA NA	NA NA	0.00	48.73 49.20	3,542.08 3,541.61	19.80 22.28	1.540 1.242	4.40 2.94	6.76 6.78	152.0 0.2
	12/11/14	<1.0	<2.0	<1.0	<1.0		<0.10	0.135	0.00	49.41	3,541.40	17.74	1.196	2.51	6.66	69.0
	06/11/15	<1.0	<2.0	<1.0	<1.0		<0.10	<0.10	0.00	49.78	3,541.03	24.41	1.240	1.10	6.63	27.7
	12/16/15	<1.0	<2.0	<1.0	<1.0		<0.10	<0.102	0.00	49.96	3,540.85	16.75	1.229	2.22	6.86	126.0
	06/09/16	<1.0	<2.0	<1.0	<1.0		<0.06	<0.08	0.00	50.33	3,540.48	25.68	1.227	2.17	7.79	36.8
	12/14/16	<1.0	<2.0	<1.0	<1.0		<0.06	0.262	0.00	50.38	3,540.43	19.92	1.767	2.16	7.61	46.7
	06/06/17 09/19/17	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0		<0.06 <0.06	0.358 0.122	0.00	50.68 50.43	3,540.13 3,540.38	23.66 19.70	1.109 1.213	3.80 1.87	6.93	64.5 137.8
	12/06/17	<1.0	<2.0	<1.0	<2.0		0.073	0.122	0.00	50.43	3,539.90	17.60	1.102	1.62	6.79	76.5
	03/14/18	<1.0	<2.0	<1.0	<2.0		<0.06	0.184	0.00	51.03	3,539.78	20.30	1.206	1.97	7.01	89.3
	06/05/18	<1.0	<2.0	<1.0	<2.0		0.100	0.221	0.00	51.24	3,539.57	24.89	1.369	2.69	6.92	111.2
	09/24/18	<1.0	<2.0	<1.0	<2.0		<0.06	0.220	0.00	51.43	3,539.38	22.96	1.308	2.07	7.18	102.3
	12/12/18	<1.0	<2.0	<1.0	<2.0		<0.06	0.224	0.00	51.55	3,539.26	20.13	1.198	1.85	6.88	91.2
	03/12/19	<1.0 <1.0	<2.0	<1.0 <1.0	<2.0		<0.06	0.164	0.00	51.62	3,539.19	20.65	1.306	1.98	7.12 7.44	110.0
	09/20/19 12/04/19	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0		<0.06 <0.06	0.225 0.203	0.00	51.88 51.98	3,538.93 3,538.83	21.87 19.92	1.398 1.265	2.11 1.89	7.44	88.6 101.6
	03/12/20	<1.0	<2.0	<1.0	<2.0		<0.06	0.203	0.00	52.10	3,538.71	20.86	1.065	2.02	7.02	78.7
	06/16/20	<1.0	<2.0	<1.0	<2.0		<0.06	0.151	0.00	52.20	3,538.61	23.88	1.309	2.88	7.33	99.2
	09/16/20	<1.0	<2.0	<1.0	<2.0		<0.06	0.222	0.00	52.39	3,538.42	22.64	1.562	1.76	7.24	120.6
	12/02/20	<1.0	<2.0	<1.0	<2.0		<0.06	NA	0.00	52.58	3,538.23	20.03	1.112	1.85	7.12	110.6
	03/24/21	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	dry	dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry
	06/08/21	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	dry	dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dr
	09/22/21 12/01/21	NS-Dry NS-Dry	NS-Dry NS-Dry	NS-Dry NS-Dry	NS-Dry NS-Dry		NS-Dry NS-Dry	NS-Dry NS-Dry	0.00	dry dry	dry dry	NS-Dry NS-Dry	NS-Dry NS-Dry	NS-Dry NS-Dry	NS-Dry NS-Dry	NS-Dry NS-Dry
	03/23/22	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	dry	dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry
	06/01/22	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	dry	dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry
																NS-Dr
	09/28/22	NS-Dry	NS-Dry	NS-Dry	NS-Dry		NS-Dry	NS-Dry	0.00	dry	dry	NS-Dry	NS-Dry	NS-Dry	NS-Dry	NO-DIY

Monitor Well ID/ MP Elevation	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (µg/L)	Total Xylenes (μg/L)	Total BTEX (μg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Product Thickness (feet)	Depth to Water (ft-bmp)	Groundwater Elevation (ft-msl)	Temperature (deg-C)	Conductivity (mS/cm)	DO (mg/L)	рН	ORP (mV)
NMWQCC Groundwater Standard		5	1000	700	620	-	NE	NE								
MW-4	06/16/10	<1.0	<1.0	<1.0	<2.0	<1.0	NA	NA	0.00	45.82	3,545.03					
3590.85	09/01/10	3.3	<1.0	<1.0	<2.0	3.3	NA	NA	0.00	45.81	3,545.04					†
	12/06/10	<1.0	<1.0	<1.0	<2.0	<1.0	NA	NA	0.00	46.01	3,544.84					
	03/18/11	<1.0	<1.0	<1.0	<2.0	<1.0	NA	NA	0.00	46.16	3,544.69					1
	06/23/11	<1.0	<1.0	<1.0	<2.0	<1.0	NA	NA	0.00	46.40	3,544.45					
	10/07/11	<1.0	<1.0	<1.0	<2.0	<1.0	NA	NA	0.00	46.74	3,544.11					1
	12/08/11	<1.0	<1.0	<1.0	<2.0	<1.0	NA	NA	0.00	46.88	3,543.97					
	08/07/12	< 5.0	< 5.0	< 5.0	< 15	< 15	NA	NA	0.00	47.44	3,543.41	28.73	1.457	0.12	6.45	1.3
	12/20/12	<1.0	<2.0	<1.0	<2.0	<2.0	NA	NA	0.00	47.89	3,542.96	18.18	1.149	0.61	6.83	-238.0
	06/25/13	<1.0	<2.0	<1.0	<2.0	<1.0	NA	NA	0.00	48.27	3,542.58	21.30	1.306	0.14	6.70	129.8
	12/11/13	<1.0	<2.0	<1.0	<2.0	<2.0	NA	NA	0.00	48.72	3,542.13	20.75	1.32	1.26	7.20	-2.0
	06/24/14	1.07	<2.0	<1.0	<1.0		NA	NA	0.00	49.18	3,541.67	22.22	1.168	1.07	6.75	-13.3
	12/11/14	<1.0	<2.0	<1.0	<1.0		<0.10	1.72	0.00	49.45	3,541.40	18.59	8.387	0.15	6.35	64.5
	06/11/15	<1.0	<2.0	<1.0	<1.0		<0.10	2.81	0.00	49.80	3,541.05	28.13	8.394	3.14	6.61	44.6
duplicate	06/11/15	<1.0	<2.0	<1.0	<1.0		<0.10	2.51	0.00	49.80	3,541.05	28.13	8.394	3.14	6.61	44.6
	12/16/15	<1.0	<2.0	<1.0	<1.0		<0.10	2.66	0.00	49.95	3,540.90	18.80	6.176	0.60	6.91	86.2
	06/09/16	<1.0	<2.0	<1.0	<1.0		< 0.06	3.22	0.00	50.32	3,540.53	27.40	2.949	2.59	6.99	1.6
	12/14/16	<1.0	<2.0	<1.0	<1.0		< 0.06	2.37	0.00	50.38	3,540.47	19.14	4.317	2.29	7.74	53.1
duplicate	12/14/16	<1.0	<2.0	<1.0	<1.0		< 0.06	2.02	0.00	50.38	3,540.47	19.14	4.317	2.29	7.74	53.1
	06/06/17	<1.0	<2.0	<1.0	<2.0		<0.06	1.50	0.00	50.68	3,540.17	22.60	1.68	0.42	6.98	71.9
	09/19/17	<1.0	<2.0	<1.0	<2.0		< 0.06	1.73	0.00	50.68	3,540.17	21.70	2.014	1.94	6.91	23.5
	12/06/17	<1.0	<2.0	<1.0	<2.0		< 0.06	1.79	0.00	50.91	3,539.94	18.10	1.751	0.89	7.16	11.3
	03/14/18	3.31	<2.0	<1.0	<2.0		<0.06	0.357	0.00	51.02	3,539.83	20.60	2.342	1.23	6.77	55.4
	06/05/18	<1.0	<2.0	<1.0	<2.0		0.092	0.329	0.00	51.24	3,539.61	24.50	2.867	2.65	6.82	68.6
	09/24/18	<1.0	<2.0	<1.0	<2.0		<0.06	0.200	0.00	51.41	3,539.44	23.65	2.436	1.86	7.04	75.6
	12/12/18	<1.0	<2.0	<1.0	<2.0		<0.06	0.098	0.00	51.44	3,539.41	19.26	1.982	1.21	6.94	29.2
	03/12/19	<1.0	<2.0	<1.0	<2.0		0.061	0.101	0.00	51.59	3,539.26	20.88	2.467	1.77	7.06	56.0
	09/20/19	<1.0	<2.0	<1.0	<2.0		<0.06	0.183	0.00	51.92	3,538.93	23.67	2,223	2.43	6.98	42.3
	12/04/19	<1.0	<2.0	<1.0	<2.0		<0.06	<0.150	0.00	51.95	3,538.90	20.11	2.116	1.63	7.11	32.0
	03/12/20	<1.0	<2.0	<1.0	<2.0		<0.06	<0.146	0.00	52.06	3,538.79	21.60	2.228	1.92	6.89	43.6
	06/16/20	<1.0	<2.0	<1.0	<2.0		<0.06	<0.147	0.00	52.17	3,538.68	23.66	2.549	2.11	7.21	65.6
	09/16/20	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0		<0.06 <0.06	<0.149	0.00	52.32	3,538.53	22.96	2.011 2.198	2.06	7.01	43.8 65.4
	12/02/20 03/24/21	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0		<0.06	<0.151 <0.151	0.00	52.49 52.66	3,538.36 3,538.19	21.04 20.35	2.198 3.445	1.88 2.33	6.92	76.4
	06/08/21	<1.0 NS	<2.0 NS	<1.0 NS	<2.0 NS		<0.06 NS	<0.151 NS	0.00	52.81	3,538.19	20.35 NS	3.445 NS	2.33 NS	7.16 NS	NS
	09/22/21	NS	NS NS	NS	NS NS		NS NS	NS NS	0.00	52.01	3,537.91	NS NS	NS NS	NS	NS	NS
	12/01/21	<1.0	<2.0	<1.0	<2.0		<0.06	0.179	0.00	53.27	3,537.58	19.88	3.226	2.10	7.16	88.4
	03/23/22	NS	NS NS	NS	NS		NS	NS	0.00	53.28	3,537.57	NS	NS	NS	NS	NS
	06/01/22	<1.0	<2.0	<1.0	<2.0		<0.06	<0.162	0.00	53.30	3,537.55	20,97	2.559	1.92	7.07	90.8
	09/28/22	NS NS	NS NS	NS NS	NS		NS	NS	0.00	53.52	3,537.33	21.05	3.112	2.33	7.12	90.8
	12/07/22	<1.0	<2.0	<1.0	<2.0		<0.06	<0.157	0.00	53.63	3,537.22	NM	NM	NM	NM	NM
	.2,51722			1.0	2.0		.0.00	-0.101	0.00	55.00	0,001.22	. 4101	. 4141	. 4101	. 4141	1

Monitor Well ID/ MP Elevation	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (μg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Product Thickness (feet)	Depth to Water (ft-bmp)	Groundwater Elevation (ft-msl)	Temperature (deg-C)	Conductivity (mS/cm)	DO (mg/L)	рН	ORP (mV
NMWQCC Groundwater Standard		5	1000	700	620		NE	NE								
MW-5	03/18/11	<1.0	<1.0	<1.0	<2.0	<1.0	NA	NA	0.00	47.61	3,545.14					
3592.75	06/23/11	<1.0	<1.0	<1.0	<2.0	<1.0	NA	NA	0.00	47.83	3,544.92			1		
	10/07/11	<1.0	<1.0	<1.0	<2.0	<1.0	NA	NA	0.00	48.17	3,544.58					
	12/08/11	<1.0	<1.0	<1.0	<2.0	<1.0	NA	NA	0.00	48.31	3,544.44			1		
	08/07/12	< 5.0	< 5.0	< 5.0	<15	< 15	NA	NA	0.00	48.83	3,543.92	27.30	0.775	4.84	6.01	115.9
	12/20/12	<1.0	<2.0	<1.0	<2.0	<2.0	NA	NA	0.00	49.26	3,543.49	17.49	0.633	4.70	7.04	-187.0
	06/25/13	<1.0	<2.0	<1.0	<2.0	<2.0	NA	NA	0.00	49.64	3,543.11	22.20	0.848	4.60	6.63	181.1
	12/11/13	<1.0	<2.0	<1.0	<2.0	<2.0	NA	NA	0.00	50.09	3,542.66	19.35	0.801	4.79	7.37	86.0
	06/25/14	<1.0	<2.0	<1.0	1.13		NA	NA	0.00	50.53	3,542.22	20.39	0.782	3.54	6.91	39.2
	12/11/14	<1.0	<2.0	<1.0	<1.0		<0.10	<0.102	0.00	50.76	3,541.99	18.61	0.888	6.35	6.11	103.6
	06/11/15	<1.0	<2.0	<1.0	<1.0		<0.10	<0.10	0.00	51.12	3,541.63	29.58	0.882	6.63	6.72	40.4
	12/16/15	<1.0	<2.0	<1.0	<1.0		<0.10	0.115	0.00	51.33	3,541.42	17.09	0.910	5.79	7.16	129.1
	06/09/16 12/14/16	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0		<0.06 <0.06	<0.08 0.194	0.00	51.68 51.76	3,541.07 3,540.99	26.69 19.03	1.099 1.361	6.03 5.93	6.55 7.72	59.9 79.5
	06/06/17	<1.0	<2.0	<1.0	<2.0		<0.06	0.194	0.00	51.76	3,540.99	19.03	0.905	5.93	6.78	127.2
	09/19/17	<1.0	<2.0	<1.0	<2.0		<0.06	0.102	0.00	52.06	3,540.68	20.70	1.001	4.04	6.81	59.8
	12/06/17	<1.0	<2.0	<1.0	<2.0		<0.06	0.132	0.00	52.07	3,540.45	17.90	0.768	3.92	7.08	33.2
duplicate	12/06/17	<1.0	<2.0	<1.0	<2.0		<0.06	0.423	0.00	52.30	3,540.45	17.90	0.768	3.92	7.08	33.2
duplicate	03/14/18	<1.0	<2.0	<1.0	<2.0		<0.06	< 0.0756	0.00	52.38	3,540.37	20.10	0.901	4.11	6.76	65.4
	06/05/18	<1.0	<2.0	<1.0	<2.0		0.081	0.155	0.00	52.58	3,540.17	25.60	1.162	4.76	6.96	123.0
duplicate	06/05/18	<1.0	<2.0	<1.0	<2.0		0.097	0.137	0.00	52.58	3,540.17	25.60	1.162	4.76	6.96	123.0
	09/24/18	<1.0	<2.0	<1.0	<2.0		< 0.06	0.111	0.00	52.50	3,540.25	24.66	0.913	3.88	7.24	102.2
duplicate	09/24/18	<1.0	<2.0	<1.0	<2.0		<0.06	0.136	0.00	52.50	3,540.25	24.66	0.913	3.88	7.24	102.2
	12/12/18	<1.0	<2.0	<1.0	<2.0		<0.06	0.157	0.00	52.54	3,540.21	18.87	1.012	4.23	7.11	55.6
duplicate	12/12/18	<1.0	<2.0	<1.0	<2.0		<0.06	0.148	0.00	52.54	3,540.21	18.87	1.012	4.23	7.11	55.6
	03/12/19	<1.0	<2.0	<1.0	<2.0		<0.06	0.178	0.00	52.97	3,539.78	20.18	1.123	3.65	7.02	88.0
duplicate	03/12/19 09/20/19	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0		<0.06 <0.06	0.157 0.223	0.00	52.97 53.22	3,539.78	20.18	1.123	3.65 4.11	7.02	88.0 112.0
duplicate	09/20/19	<1.0	<2.0	<1.0	<2.0		<0.06	0.230	0.00	53.22	3,539.53 3,539.53	23.98 23.98	0.889 0.889	4.11	7.16 7.16	112.0
duplicate	12/04/19	<1.0	<2.0	<1.0	<2.0		<0.06	0.230	0.00	53.34	3,539.41	20.18	0.987	3.97	7.10	99.6
duplicate	12/04/19	<1.0	<2.0	<1.0	<2.0		<0.06	0.168	0.00	53.34	3,539.41	20.18	0.987	3.97	7.02	99.6
	03/12/20	<1.0	<2.0	<1.0	<2.0		<0.06	0.235	0.00	53.40	3,539.35	21.20	1.115	4.01	7.11	102.0
duplicate	03/12/20	<1.0	<2.0	<1.0	<2.0		<0.06	0.190	0.00	53.40	3,539.35	21.20	1.115	4.01	7.11	102.0
	06/16/20	<1.0	<2.0	<1.0	<2.0	•	<0.06	<0.148	0.00	53.58	3,539.17	23.40	1.233	4.26	6.92	123.0
duplicate	06/16/20	<1.0	<2.0	<1.0	<2.0		<0.06	0.166	0.00	53.58	3,539.17	23.40	1.233	4.26	6.92	123.0
describerate	09/16/20	<1.0	<2.0	<1.0	<2.0		<0.06	0.156	0.00	53.69	3,539.06	21.96	1.002	3.84	7.27	89.6
duplicate	09/16/20	<1.0	<2.0	<1.0	<2.0		<0.06	0.173	0.00	53.69	3,539.06	21.96	1.002	3.84	7.27	89.6
	12/02/20 03/24/21	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<2.0 <2.0		<0.06 <0.06	0.178 0.281	0.00	53.91 54.05	3,538.84 3,538.70	20.86 21.22	1.246 1.388	2.96 3.03	7.08	112.0 98.7
duplicate	03/24/21	<1.0	<2.0	<1.0	<2.0		<0.06	0.261	0.00	54.05	3,538.70	21.22	1.388	3.03	7.03	98.7
auphouto	06/08/21	NS	NS	NS NS	NS		NS	NS	0.00	54.25	3,538.50	NS NS	NS	NS	NS	NS
	09/22/21	NS	NS	NS	NS		NS	NS	0.00	54.29	3,538.46	NS NS	NS	NS	NS	NS
	12/01/21	<1.0	<2.0	<1.0	<2.0		<0.06	<0.147	0.00	54.51	3,538.24	20.86	0.998	3.24	7.18	119.0
duplicate	12/01/21	<1.0	<2.0	<1.0	<2.0		<0.06	<0.147	0.00	54.51	3,538.24	20.86	0.998	3.24	7.18	119.0
	03/23/22	NS	NS	NS	NS		NS	NS	0.00	54.60	3,538.15	NS	NS	NS	NS	NS
	06/01/22	<1.0	<2.0	<1.0	<2.0		<0.06	<0.159	0.00	54.67	3,538.08	21.44	1.234	2.94	7.23	102.0
	09/28/22	NS	NS	NS	NS		NS	NS	0.00	56.88	3,535.87	22.03	1.488	3.12	7.07	122.1
di veli e e te	12/07/22	<1.0	<2.0	<1.0	<2.0		<0.06	< 0.147	0.00	54.98	3,537.77	NM	NM	NM	NM	NM
duplicate	12/07/22	<1.0	<2.0	<1.0	<2.0		<0.06	<0.148	0.00	54.98	3,537.77	NM	NM	NM	NM	NM

Monitor Well ID/ MP Elevation	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Product Thickness (feet)	Depth to Water (ft-bmp)	Groundwater Elevation (ft-msl)	Temperature (deg-C)	Conductivity (mS/cm)	DO (mg/L)	рН	ORP (m\
NMWQCC Groundwater Standard		_														
	00/05/40	5	1000	700	620		NE	NE		45.00	0.540.07					<u> </u>
HTRW-1	06/25/13	NSP	NSP	NSP	NSP	NSP	NA	NA	0.00	45.28	3,542.87					<u> </u>
3588.14	12/11/13 6/24/14	NSP 910	NSP 48.7	NSP 89.1	NSP 70.0	NSP	NA NA	NA NA	0.01 0.01	45.79 46.19	3,542.36 3,541.95	21.90	1.533	1.37	6.77	-108.5
duplicate	6/24/14	922	49.0	88.8	69.2		NA NA	NA NA	0.00	46.19	3,541.95	21.90	1.533	1.37	6.77	-108.5
duplicate	12/11/14	NSP	NSP	NSP	NSP		NSP	NSP	0.05	45.51	3,542.67	NSP	NSP	NSP	NSP	NSP
	06/11/15	NSP	NSP	NSP	NSP		NSP	NSP	0.80	47.61	3,541.11	NSP	NSP	NSP	NSP	NSP
	12/16/15	NSP	NSP	NSP	NSP		NSP	NSP	0.02	46.95	3,541.20	NSP	NSP	NSP	NSP	NSP
	06/09/16	NSP	NSP	NSP	NSP		NSP	NSP	0.00	46.34	3,541.80	NM	NM	NM	NM	NM
	12/14/16	1.97	<0.6	<0.3	0.943		<0.06	0.432	0.00	47.44	3,540.70	19.34	1.72	2.34	7.58	60.8
	06/06/17	774	21.9	1.90	57.6		1.85	0.549	0.00	47.71	3,540.43	21.12	1.014	1.71	6.91	71.7
duplicate	06/06/17	694	13.8	1.37	47.2		1.43	1.49	0.00	47.71	3,540.43	21.12	1.014	1.71	6.91	71.7
	09/19/17	1620	76.1	17.1	82.6		2.88	1.23	0.00	47.72	3,540.42	21.7	0.693	1.7	6.93	-45.4
	12/06/17	NS	NS 10.0	NS	NS 0.40	NS	NS	NS 10.0754	0.00	NM	NM	NS	NS	NS	NS	NS
	03/14/18 06/05/18	102 163	<2.0 40.0	<1.0 2.03	8.16 34.2		0.360 1.40	<0.0754 2.17	0.00	48.03 48.22	3,540.10 3,540.06	20.6 22.1	0.892 0.989	1.92 1.87	7.23 6.89	-11.5 22.3
	06/05/18	163	2.78	<3.0	0.564		0.109	0.406	0.00	48.22 48.45	3,540.06	22.1	1.106	1.87	6.89	11.6
	12/12/18	377	20.5	1.07	20.7		1.15	0.406	0.00	48.99	3,539.15	19.03	0.979	2.12	7.01	22.9
	03/12/19	28.8	2.6	<3.0	3.48		0.139	0.154	0.00	48.70	3,539.44	20.8	0.979	2.04	7.18	10.6
	09/20/19	42.4	3.07	0.413	3.84		0.318	0.263	0.00	48.97	3,539.17	21.6	0.889	1.96	6.98	-22
	12/04/19	57.5	5.82	0.559	8.27		0.118	<0.148	0.00	48.97	3,539.17	19.2	1.021	1.88	7.01	9.66
	03/12/20	2.28	<2.0	<1.0	<2.0		<0.06	0.222	0.00	49.09	3,539.05	20.6	0.926	1.92	7.26	60.5
	06/16/20	70.6	11.0	0.960	4.46		0.116	0.288	0.00	49.20	3,538.94	23.4	1.115	2.01	7.33	44.6
	09/16/20	135	7.3	0.382	9.86		0.308	<0.149	0.00	49.38	3,538.76	22.7	1.226	1.94	7.45	10.8
	12/02/20	626	53.3	2.23	66.0		1.79	0.256	0.00	49.56	3,538.58	21.2	1.101	1.87	7.33	35.6
	03/24/21	849	124	3.53	56.8		2.36	0.204	0.00	49.72	3,538.42	20.8	0.966	2.11	7.26	54.8
	06/08/21	765	86.3	2.20	46.1		1.70	<0.147	0.00	49.90	3,538.24	22.3	1.074	2.02	7.11	44.7
	09/22/21 12/01/21	1.20 2.49	<2.0 10.4	<1.0 <1.0	<2.0		<0.06	<0.551 <0.152	0.00	50.00	3,538.14	23.1	1.226 1.119	1.92	7.2 7.19	60.6
	03/23/22	2.49 585	18.3	12.0	<2.0 21.9		<0.06 1.28	<0.152	0.00	50.22 50.28	3,537.92 3,537.86	22.8 20.4	1.119	2.33 1.09	7.19	55.8 10.2
	06/01/22	1.53	1.38	<1.0	<2.0		<0.06	<0.153	0.00	50.34	3,537.80	21.6	1.387	1.12	7.21	22.3
	09/28/22	0.429	<2.0	<1.0	<2.0		<0.06	0.321	0.00	50.56	3,537.58	22.9	1,.438	2.13	7.18	54.3
	12/07/22	<1.0	<2.0	<1.0	<2.0		<0.06	<0.149	0.00	50.68	3,537.46	NM	NM	NM	NM	NM
HTRW-2	6/25/13	62.3	21.4	4.4	13.0	101.1	NA	NA	0.00	44.60	3,542.91	21.70	1.233	2.80	6.81	180.2
3587.51	12/11/13	530	35.9	12.4	33.4	611.7	NA	NA	0.00	45.05	3,542.46	20.08	1.43	1.07	7.34	-2.00
	6/24/14	748	47.6	59.2	84.0		NA	NA	0.00	45.52	3,541.99	19.88	1.536	0.68	6.86	-128.9
	12/11/14	722	135	36.4	129		2.0	0.253	0.00	45.79	3,541.72	17.13	1.444	0.41	6.67	-89.1
	06/11/15 12/16/15	875	28.7 <20.0	35.3 18.9	29.3 <10.0		1.24	0.354 0.144	0.00	46.05	3,541.46	21.95 17.01	1.937 1.523	2.82 0.69	6.06 7.07	-43.3 -69.4
	06/09/16	503			6.87		1.01		0.00	46.25	3,541.26 3,540.85	17.01 NM	1.523 NM	0.69 NM	NM	-69.4 NM
	12/14/16	863 322	6.35 7.32	60.6 33.3	5.66		2.03 0.128	1.05 0.461	0.00	46.66 46.74	3,540.77	18.65	1.732	1.39	7.73	10.1
	06/06/17	342	4.05	2.81	17.9		0.901	0.332	0.00	47.03	3,540.48	18.81	1.035	4.62	6.75	107.4
	09/19/17	NS	NS NS	NS NS	NS	NS	NS	NS	0.00	47.08	3,540.43	NS	NS	NS	NS	NS
	12/06/17	NS	NS	NS	NS	NS	NS	NS	0.00	47.25	3,540.26	NS	NS	NS	NS	NS
	03/14/18	NS	NS	NS	NS	NS	NS	NS	0.00	48.42	3,539.09	NS	NS	NS	NS	NS
	06/05/18	NS	NS	NS	NS	NS	NS	NS	0.00	47.56	3,539.95	NS	NS	NS	NS	NS
	09/24/18	NS	NS	NS	NS	NS	NS	NS	0.00	47.77	3,539.74	NS	NS	NS	NS	NS
	12/12/18	NS	NS	NS	NS	NS	NS	NS	0.00	47.79	3,539.72	NS	NS	NS	NS	NS
	03/12/19	NS	NS	NS	NS	NS	NS	NS	0.00	48.01	3,539.50	NS	NS	NS	NS	NS
	09/20/19	NS	NS NC	NS	NS	NS NC	NS	NS	0.00	48.28	3,539.23	NS NC	NS NC	NS	NS	NS
	12/04/19 03/12/20	NS NS	NS NS	NS	NS NS	NS NC	NS NC	NS NC	0.00	48.35 48.47	3,539.16 3,539.04	NS NS	NS NS	NS NS	NS	NS NS
		NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	0.00	48.47	3,539.04 3,538.92	NS NS	NS NS	NS NS	NS NS	NS NS
	06/16/20	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	0.00	48.59	3,538.92	NS NS	NS NS	NS NS	NS NS	NS NS
	06/16/20		110		NS	NS	NS	NS	0.00	48.89	3,538.62	NS NS	NS	NS	NS	NS
	09/16/20		NS	1/1/2				NS	0.00	49.10	3,538.41	NS NS	NS	NS	NS	NS
	09/16/20 12/02/20	NS	NS NS	NS NS		NS	No.									
	09/16/20		NS NS NS	NS NS	NS NS	NS NS	NS NS	NS	0.00	49.23	3,538.28	NS	NS	NS	NS	NS
	09/16/20 12/02/20 03/24/21 06/08/21	NS NS NS	NS NS	NS NS	NS NS	NS	NS	NS				NS	NS	NS		
	09/16/20 12/02/20 03/24/21	NS NS	NS	NS	NS				0.00 0.00 0.00	49.23 49.34 49.56	3,538.28 3,538.17 3,537.95				NS NS NS	NS NS
	09/16/20 12/02/20 03/24/21 06/08/21 09/22/21 12/01/21 03/23/22	NS NS NS NS NS	NS NS NS NS	NS NS NS NS	NS NS NS NS	NS NS NS	NS NS NS NS	NS NS NS NS	0.00 0.00 0.00	49.34 49.56 49.69	3,538.17 3,537.95 3,537.82	NS NS NS	NS NS NS	NS NS NS	NS NS NS	NS NS NS
	09/16/20 12/02/20 03/24/21 06/08/21 09/22/21 12/01/21 03/23/22 06/01/22	NS NS NS NS NS NS	NS NS NS NS NS	NS NS NS NS NS	NS NS NS NS NS	NS NS NS NS	NS NS NS NS	NS NS NS NS	0.00 0.00 0.00 0.00	49.34 49.56 49.69 49.76	3,538.17 3,537.95 3,537.82 3,537.75	NS NS NS NS	NS NS NS NS	NS NS NS NS	NS NS NS	NS NS NS
	09/16/20 12/02/20 03/24/21 06/08/21 09/22/21 12/01/21 03/23/22	NS NS NS NS NS	NS NS NS NS	NS NS NS NS	NS NS NS NS	NS NS NS	NS NS NS NS	NS NS NS NS	0.00 0.00 0.00	49.34 49.56 49.69	3,538.17 3,537.95 3,537.82	NS NS NS	NS NS NS	NS NS NS	NS NS NS	NS NS NS

Monitor Well ID/ MP Elevation	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Total Xylenes (μg/L)	Total BTEX (μg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Product Thickness (feet)	Depth to Water (ft-bmp)	Groundwater Elevation (ft-msl)	Temperature (deg-C)	Conductivity (mS/cm)	DO (mg/L)	рН	ORP (mV
NMWQCC Groundwater Standard		5	1000	700	620		NE	NE								
HTRW-3	6/25/13	NSP	NSP	NSP	NSP	NSP	NA	NA	0.01	45.88	3,542.88			I		
3588.75	12/11/13	NSP	NSP	NSP	NSP	NSP	NA	NA	0.00	46.33	3,542.43					
	6/24/14	3090	1220	450	520		NA	NA	0.00	46.79	3,541.96	21.17	1.56	0.75	6.70	-160.1
	12/11/14	3760	1750	466	632		12.2	1.31	0.00	47.03	3,541.72	17.26	1.684	0.33	6.59	-209.1
	06/11/15	NSP	NSP	NSP	NSP		NSP	NSP	0.26	47.61	3,541.33	NSP	NSP	NSP	NSP	NSP
	12/16/15	NSP	NSP	NSP	NSP		NSP	NSP	1.70	49.00	3,540.99	NSP	NSP	NSP	NSP	NSP
	06/09/16	NSP	NSP	NSP	NSP		NSP	NSP	0.03	47.84	3,540.93	NSP	NSP	NSP	NSP	NSP
	12/14/16	NSP	NSP	NSP	NSP		NSP	NSP	0.51	48.48	3,540.64	NSP	NSP	NSP	NSP	NSP
	06/06/17	NSP	NSP	NSP	NSP		NSP	NSP	0.04	48.35	3,540.43	NSP	NSP	NSP	NSP	NSP
	09/19/17	NSP	NSP	NSP	NSP		NSP	NSP	0.05	48.36	3,540.43	NSP	NSP	NSP	NSP	NSP
	12/06/17	NSP	NSP	NSP	NSP		NSP	NSP	0.75	49.35	3,539.95	NSP	NSP	NSP	NSP	NSP
	03/14/18	NSP	NSP	NSP	NSP		NSP	NSP	0.00	48.68	3,540.07	NSP	NSP	NSP	NSP	NSP
	06/05/18	NSP	NSP	NSP	NSP		NSP	NSP	0.00	48.88	3,539.87	NSP	NSP	NSP	NSP	NSP
	09/24/18	NSP	NSP	NSP	NSP		NSP	NSP	0.10	49.18	3,539.64	NSP	NSP	NSP	NSP	NSP
	12/12/18	NSP	NSP	NSP	NSP		NSP	NSP	0.05	48.13	3,540.66	NSP	NSP	NSP	NSP	NSP
	03/12/19	NSP	NSP	NSP	NSP		NSP	NSP	0.06	49.35	3,539.44	NSP	NSP	NSP	NSP	NSP
	09/20/19	NSP	NSP	NSP	NSP		NSP	NSP	0.00	49.60	3,539.15	NSP	NSP	NSP	NSP	NSP
	12/04/19	NSP	NSP	NSP	NSP		NSP	NSP	0.00	49.75	3,539.00	NSP	NSP	NSP	NSP	NSP
	03/12/20	NS	NS	NS	NS		NS	NS	0.00	49.89	3,538.86	NS	NS	NS	NS	NS
	06/16/20	NSP	NSP	NSP	NSP		NSP	NSP	0.02	49.92	3,538.84	NSP	NSP	NSP	NSP	NSP
	09/16/20	NS	NS	NS	NS		NS	NS	0.00	50.08	3,538.67	NS	NS	NS	NS	NS
	12/02/20	NS	NS	NS	NS		NS	NS	0.00	50.24	3,538.51	NS	NS	NS	NS	NS
	03/24/21	NS	NS	NS	NS		NS	NS	0.00	50.32	3,538.43	NS	NS	NS	NS	NS
	06/08/21	NS	NS	NS	NS		NS	NS	0.00	50.46	3,538.29	NS	NS	NS	NS	NS
	09/22/21	NS	NS	NS	NS		NS	NS	0.00	50.55	3,538.20	NS	NS	NS	NS	NS
	12/01/21	NS	NS	NS	NS		NS	NS	0.00	50.81	3,537.94	NS	NS	NS	NS	NS
	03/23/22	NS	NS	NS	NS		NS	NS	0.00	50.90	3,537.85	NS	NS	NS	NS	NS
	06/01/22	NS	NS	NS	NS		NS	NS	0.00	51.05	3,537.70	NS	NS	NS	NS	NS
	09/28/22	NS	NS	NS	NS		NS	NS	0.00	51.60	3,537.15	NS	NS	NS	NS	NS
	12/07/22	NS	NS	NS	NS		NS	NS	0.00	52.26	3,536.49	NS	NS	NS	NS	NS
														Ì		

Appendix B **Summary of Historical Groundwater Analytical Results and Field Parameters** HF Sinclair- Hobbs Tank 5201 - Lea County, New Mexico

Monitor Well ID/ MP Elevation	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (µg/L)	Total Xylenes (μg/L)	Total BTEX (μg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Product Thickness (feet)	Depth to Water (ft-bmp)	Groundwater Elevation (ft-msl)	Temperature (deg-C)	Conductivity (mS/cm)	DO (mg/L)	рН	ORP (mV)
NMWQCC Groundwater Standard		5	1000	700	620	_	NE	NE								
HTRW-4	6/25/13	87.4	49.4	32.5	52.8	222.1	NA	NA	0.00	45.68	3,542.89	22.30	0.96	2.04	6.87	190.9
3588.57	12/11/13	951	157	88.1	219	1414.7	NA	NA	0.00	46.13	3,542.44	20.41	1.44	0.95	7.5	-144
	6/24/14	1720	698	253	436		NA	NA	0.00	46.59	3,541.98	21.9	1.751	1.16	7.01	-96.1
	12/11/14	1590	288	126	277		4.03	0.643	0.00	46.85	3,541.72	16.54	1.581	0.15	6.81	-190.5
	06/11/15	1490	29.2	111	29.9		2.16	0.365	0.00	47.11	3,541.46	23.87	1.486	0.68	6.92	-183.2
	12/16/15	NS	NS	NS	NS	NS	NS	NS	0.00	47.32	3,541.25	NS	NS	NS	NS	NS
	06/09/16	834	11.7	35.9	17.8		1.60	1.10	0.00	47.70	3,540.87	22.27	1.559	1.93	6.78	-117
	12/14/16	3800	29.6	16.2	46.1		1.31	0.951	0.00	47.79	3,540.78	19.01	1.937	1.48	7.96	-74.01
	06/06/17	564	6.20	3.62	57.8		1.97	0.736	0.00	48.09	3,540.48	18.92	1.092	1.77	6.97	-50.9
	09/19/17	NS	NS	NS	NS	NS	NS	NS	0.00	48.19	3,540.38	NS	NS	NS	NS	NS
	12/06/17	NS	NS	NS	NS	NS	NS	NS	0.00	48.30	3,540.27	NS	NS	NS	NS	NS
	03/14/18	NS	NS	NS	NS	NS	NS	NS	0.00	48.58	3,539.99	NS	NS	NS	NS	NS
	06/05/18	NS	NS	NS	NS	NS	NS	NS	0.00	48.64	3,539.93	NS	NS	NS	NS	NS
	09/24/18	NS	NS	NS	NS	NS	NS	NS	0.00	48.78	3,539.79	NS	NS	NS	NS	NS
	12/12/18	NS	NS	NS	NS	NS	NS	NS	0.00	48.48	3,540.09	NS	NS	NS	NS	NS
	03/12/19	NS	NS	NS	NS	NS	NS	NS	0.00	49.05	3,539.52	NS	NS	NS	NS	NS
	09/20/19	NS	NS	NS	NS	NS	NS	NS	0.00	49.38	3,539.19	NS	NS	NS	NS	NS
	12/04/19	NS	NS	NS	NS	NS	NS	NS	0.00	49.92	3,538.65	NS	NS	NS	NS	NS
	03/12/20	NS	NS	NS	NS	NS	NS	NS	0.00	49.55	3,539.02	NS	NS	NS	NS	NS
	06/16/20	NS	NS	NS	NS	NS	NS	NS	0.00	49.68	3,538.89	NS	NS	NS	NS	NS
	09/16/20	NS	NS	NS	NS	NS	NS	NS	0.00	49.82	3,538.75	NS	NS	NS	NS	NS
	12/02/20	NS	NS	NS	NS	NS	NS	NS	0.00	50.01	3,538.56	NS	NS	NS	NS	NS
	03/24/21	NS	NS	NS	NS	NS	NS	NS	0.00	50.11	3,538.46	NS	NS	NS	NS	NS
	06/08/21	NS	NS	NS	NS	NS	NS	NS	0.00	50.35	3,538.22	NS	NS	NS	NS	NS
	09/22/21	NS	NS	NS	NS	NS	NS	NS	0.00	50.38	3,538.19	NS	NS	NS	NS	NS
	12/01/21	NS	NS	NS	NS	NS	NS	NS	0.00	50.66	3,537.91	NS	NS	NS	NS	NS
	03/23/22	NS	NS	NS	NS	NS	NS	NS	0.00	50.65	3,537.92	NS	NS	NS	NS	NS
	06/01/22	NS	NS	NS	NS	NS	NS	NS	0.00	50.78	3,537.79	NS	NS	NS	NS	NS
	09/28/22	NS	NS	NS	NS	NS	NS	NS	0.00	51.03	3,537.54	NS	NS	NS	NS	NS
	12/07/22	NS	NS	NS	NS	NS	NS	NS	0.00	51.02	3,537.55	NS	NS	NS	NS	NS

BOLD = Exceeds New Mexico Water Quality Commission (NMWQC) Standard

μg/L = microgram per liter

mg/L= micrograms per liter

< = Not detected above laboratory reporting limit

ft-bmp - feet-below measuring point

ft-msl - feet-mean sea level

deg-C - degrees-Celcius

mS/cm - milliSiemens per centimeter

NSP - Not Sampled Product

MP - Measuring Point NS - Not Sampled

NA- Not analyzed

NF - Not Established

BTEX = Benzene, Toluene, Ethylbenzene and Xylenes

TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Oganics TPH-DRO = Total Petroleum Hydrocarbons-Diesel Range Oganics

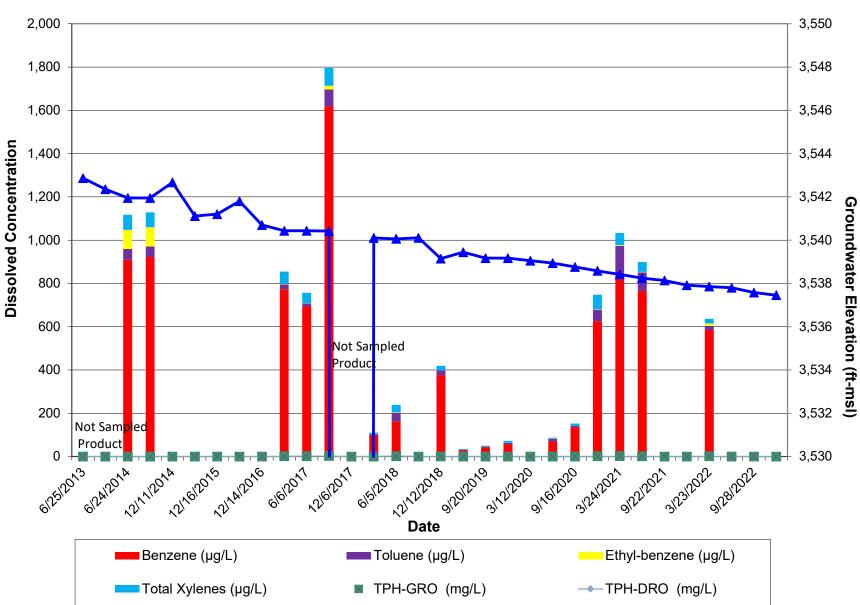
BTEX analyzed by Method 8260C

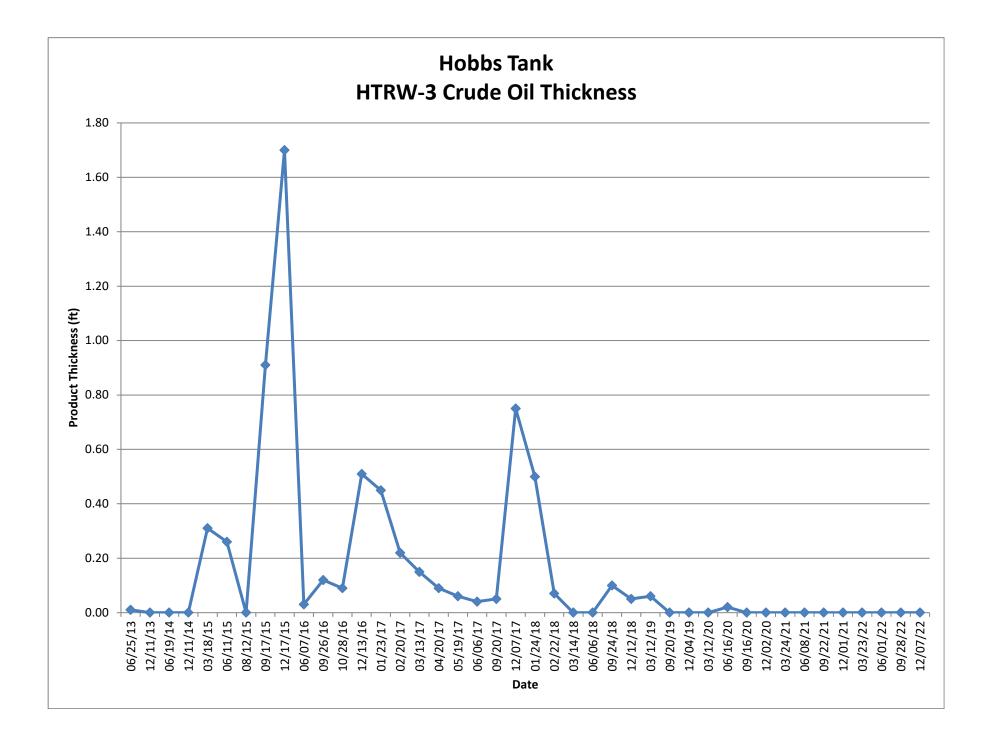
TPH-GRO analyzed by Method 8015V

TPH-DRO analyzed by Method 8015D

Appendix C Graphs

Well HTRW-1 Hobbs Tank 5201





Appendix D Groundwater Laboratory Reports



April 01, 2022

Brad Stephenson

GHD

14998 W 6th Ave #800

Golden, CO 80401

TEL: (720) 974-0935

FAX (432) 686-0186 Order No.: 2203276

RE: Hobbs Tank

Dear Brad Stephenson:

DHL Analytical, Inc. received 1 sample(s) on 3/24/2022 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative and all estimated uncertainties of results are within method specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

John DuPont

General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-21-27



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CaseNarrative 2203276	6
Analytical Report 2203276	7
AnalyticalQCSummaryReport 2203276	8

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2300 Double Creek Dr. Round Rock, TX 78664

Phone 512.388.8222

Web: www.dhlanalytical.com

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Field Sample I.D.	Lab #	Date	Time	Matrix	Type	of	HCH	H2504	HOE				2 8015	C 8260)C 827	1 8270	T 8270	1 8082 18 832	TAIS	MBD	D HEX	P-SVO	P-MEI	100	ST D S				
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ORIGIN ID:HOBA (303) 941-6156 GHD 14998 W 6TH AVE STE 800 GOLDEN, CO 80401 UNITED STATES US SHIP DATE: 23MAR22 ACTWGT: 44.65 LB CAD: 6994246/SSFE2300 DIMS: 23×13×14 IN

BILL THIRD PARTY

TΟ

DHL 2300 DOUBLE CREEK DR.

ROUND ROCK TX 78664

(512) 388 - 8222

REF:

FedEx Express

TRK# 2712 1068 1895

A8 BSMA

THU - 24 MAR 10:30A PRIORITY OVERNIGHT

> 78664 TX-US AUS



Sample	Receipt Check	list	
Client Name GHD		Date Receive	d: 3/24/2022
Work Order Number 2203276		Received by:	KAO
5			
Checklist completed by: 3/24/202	22	Reviewed by	3/24/2022
Signature Date			Initials Date
Carrier name:	FedEx 1day		
Shipping container/cooler in good condition?	Yes 🗸	No 🗌	Not Present
Custody seals intact on shipping container/cooler?	Yes	No 🗌	Not Present 🔽
Custody seals intact on sample bottles?	Yes	No 🗌	Not Present 🔽
Chain of custody present?	Yes 🗸	No 🗌	
Chain of custody signed when relinquished and received?	Yes	No 🗸	
Chain of custody agrees with sample labels?	Yes []	No 🗸	
Samples in proper container/bottle?	Yes 🗹	No 🛄	
Sample containers intact?	Yes 🗹	No 🗔	
Sufficient sample volume for indicated test?	Yes 🗹	No 🗌	
All samples received within holding time?	Yes 🗸	No 🗌	
Container/Temp Blank temperature in compliance?	Yes 🔽	No . 5	5 °C
Water - VOA vials have zero headspace?	Yes 🗸	No 🗌 N	o VOA vials submitted
Water - pH<2 acceptable upon receipt?	Yes	No 🗌 N	A ✓ LOT#
	Adjusted?		Checked by
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes	No 🗌 N	A ✓ LOT#
	Adjusted?		Checked by
Any No response must be detailed in the comments section below.			
	3/24/22		n contacted Brad S.
Contacted by: John D. Regarding: D	ocumenta	tion	
Comments: COC not signed & sample not recorded.			

Corrective Action: Added sample to COC & emailed Brad for signed copy of COC.

Date: 01-Apr-22

DHL Analytical, Inc.

CLIENT: GHD

Project: Hobbs Tank

CASE NARRATIVE

Lab Order: 2203276

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

For Volatiles analysis an MS/MSD was not performed due to insufficient sample volume. An LCS/LCSD was performed instead.

For DRO analysis an MS/MSD was not performed due to insufficient sample volume. An LCS/LCSD was performed instead.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For DRO analysis by method M8015D the surrogate recoveries for the sample and all QC samples were below control limits for Isopropylbenzene. These are flagged accordingly. The remaining surrogate was within control limits. No further corrective actions were taken.

CLIENT: GHD Client Sample ID: HTRW-1

Project: Hobbs Tank Lab ID: 2203276-01

Project No: 11224355 **Collection Date:** 03/23/22 10:00 AM

Lab Order: 2203276 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		M80 ²	15D				Analyst: BTJ
TPH-DRO C10-C28	< 0.153	0.153	0.191		mg/L	1	03/30/22 04:45 PM
Surr: Isopropylbenzene	28.7	0	47-142	S	%REC	1	03/30/22 04:45 PM
Surr: Octacosane	69.1	0	51-124		%REC	1	03/30/22 04:45 PM
TPH PURGEABLE BY GC - WATER		M80 ⁻	15V				Analyst: BTJ
Gasoline Range Organics	1.28	0.0600	0.100		mg/L	1	03/30/22 03:49 PM
Surr: Tetrachlorethene	94.6	0	74-138		%REC	1	03/30/22 03:49 PM
8260 WATER VOLATILES BY GC/MS		SW82	60D				Analyst: JVR
Benzene	0.585	0.00300	0.0100		mg/L	10	03/29/22 05:10 PM
Ethylbenzene	0.0120	0.000300	0.00100		mg/L	1	03/29/22 09:59 PM
m,p-Xylene	0.0148	0.000600	0.00200		mg/L	1	03/29/22 09:59 PM
o-Xylene	0.00705	0.000300	0.00100		mg/L	1	03/29/22 09:59 PM
Toluene	0.0183	0.000600	0.00200		mg/L	1	03/29/22 09:59 PM
Total Xylenes	0.0219	0.000300	0.00100		mg/L	1	03/29/22 09:59 PM
Surr: 1,2-Dichloroethane-d4	101	0	72-119		%REC	10	03/29/22 05:10 PM
Surr: 1,2-Dichloroethane-d4	101	0	72-119		%REC	1	03/29/22 09:59 PM
Surr: 4-Bromofluorobenzene	92.2	0	76-119		%REC	1	03/29/22 09:59 PM
Surr: 4-Bromofluorobenzene	93.2	0	76-119		%REC	10	03/29/22 05:10 PM
Surr: Dibromofluoromethane	95.9	0	85-115		%REC	1	03/29/22 09:59 PM
Surr: Dibromofluoromethane	94.8	0	85-115		%REC	10	03/29/22 05:10 PM
Surr: Toluene-d8	102	0	81-120		%REC	1	03/29/22 09:59 PM
Surr: Toluene-d8	99.5	0	81-120		%REC	10	03/29/22 05:10 PM

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RLND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 01-Apr-22

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

CLIENT: GHD
Work Order: 2203276
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GC15 220330A

Date: 01-Apr-22

110ject. 11000s i	i alik				Kulli	<i>y</i> . (JC13_220.)30A		
The QC data in batch 104566	applies to the following s	amples: 220	03276-01C							
Sample ID: MB-104566	Batch ID: 104566		TestNo:	M80	15D		Units:	mg/L		
SampType: MBLK	Run ID: GC15_2	20330A	Analysis	s Date: 3/30	/2022 3:23:	38 PM	Prep Date:	3/28/2	022	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimi	t Qual
TPH-DRO C10-C28	<0.0800	0.100								
Surr: Isopropylbenzene	0.0315		0.1000		31.5	47	142			S
Surr: Octacosane	0.0730		0.1000		73.0	51	124			
Sample ID: LCS-104566	Batch ID: 104566		TestNo:	M80)15D		Units:	mg/L		
SampType: LCS	Run ID: GC15_2	20330A	Analysis	s Date: 3/30	/2022 3:32:	42 PM	Prep Date:	3/28/2	022	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimi	t Qual
TPH-DRO C10-C28	0.738	0.100	1.250	0	59.0	50	114			
Surr: Isopropylbenzene	0.0276		0.1000		27.6	47	142			S
Surr: Octacosane	0.0742		0.1000		74.2	51	124			
Sample ID: LCSD-104566	Batch ID: 104566		TestNo:	M80)15D		Units:	mg/L		
SampType: LCSD	Run ID: GC15_2	20330A	Analysis	s Date: 3/30	/2022 3:41:	45 PM	Prep Date:	3/28/2	022	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimi	t Qual
TPH-DRO C10-C28	0.760	0.100	1.250	0	60.8	50	114	2.98	30	
Surr: Isopropylbenzene	0.0236		0.1000		23.6	47	142	0	0	S
Surr: Octacosane	0.0736		0.1000		73.6	51	124	0	0	

Qualifiers: B Analyte detected in the associated Method Blank

 $J \quad \ \ Analyte \ detected \ between \ MDL \ and \ RL$

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

Page 1 of 3

R RPD outside accepted control limits

S Spike Recovery outside control limits

CLIENT: GHD Work Order: 2203276

ANALYTICAL QC SUMMARY REPORT

Project: Hobbs Tank RunID: GC4_220330A

The QC data in batch 104601 ap	plies to the t	following s	samples: 220	3276-01B						
Sample ID: LCS-104601	Batch ID:	104601		TestNo:	M86	015V		Units:	mg/L	
SampType: LCS	Run ID:	GC4_22	20330A	Analysis	s Date: 3/30	0/2022 10:32	2:51 AM	Prep Date:	3/30/2	022
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qual
Gasoline Range Organics		2.51	0.100	2.500	0	100	67	136		
Surr: Tetrachlorethene		0.351		0.4000		87.7	74	138		
Sample ID: LCSD-104601	Batch ID:	104601		TestNo:	M86	015V		Units:	mg/L	
SampType: LCSD	Run ID:	GC4_22	20330A	Analysis	s Date: 3/30	0/2022 10:55	5:05 AM	Prep Date:	3/30/2	022
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qual
Gasoline Range Organics		2.58	0.100	2.500	0	103	67	136	2.68	30
Surr: Tetrachlorethene		0.383		0.4000		95.7	74	138	0	0
Sample ID: MB-104601	Batch ID:	104601		TestNo:	M80	015V		Units:	mg/L	
SampType: MBLK	Run ID:	GC4_22	20330A	Analysis	s Date: 3/30	0/2022 12:01	1:41 PM	Prep Date:	3/30/2	022
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qual
Gasoline Range Organics	<	:0.0600	0.100							
Surr: Tetrachlorethene		0.390		0.4000		97.6	74	138		
Sample ID: 2203266-01BMS	Batch ID:	104601		TestNo:	M80	015V		Units:	mg/L	
SampType: MS	Run ID:	GC4_22	20330A	Analysis	s Date: 3/30	0/2022 4:12:	36 PM	Prep Date:	3/30/2	022
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qual
Gasoline Range Organics		2.35	0.100	2.500	0	94.2	67	136		
Surr: Tetrachlorethene		0.338		0.4000		84.6	74	138		
Sample ID: 2203266-01BMSD	Batch ID:	104601		TestNo:	M8	015V		Units:	mg/L	
SampType: MSD	Run ID:	GC4_22	20330A	Analysis	s Date: 3/30	0/2022 4:35:	04 PM	Prep Date:	3/30/2	022
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qual
Gasoline Range Organics		2.53	0.100	2.500	0	101	67	136	7.40	30
Surr: Tetrachlorethene		0.366		0.4000		91.4	74	138	0	0

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

 $\begin{array}{ll} S & \text{Spike Recovery outside control limits} \\ N & \text{Parameter not NELAP certified} \end{array}$

Page 2 of 3

CLIENT: GHD Work Order: 2203276

ANALYTICAL QC SUMMARY REPORT

Project: Hobbs Tank RunID: GCMS5_220329A

The QC data in batch 104569 ap			amples: 220							
Sample ID: LCS-104569	Batch ID:	104569		TestNo	: SW	8260D		Units:	mg/L	
SampType: LCS	Run ID:	GCMS5	_220329A	Analys	is Date: 3/29	/2022 1:28	00 PM	Prep Date:	3/29/2	022
Analyte	1	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	RPDLimit Qu
Benzene	(0.0246	0.00100	0.0232	0	106	81	122		
Ethylbenzene	(0.0239	0.00100	0.0232	0	103	80	120		
m,p-Xylene	(0.0480	0.00200	0.0464	0	103	80	120		
o-Xylene	(0.0244	0.00100	0.0232	0	105	80	120		
Toluene	(0.0233	0.00200	0.0232	0	100	80	120		
Total Xylenes	(0.0724	0.00100	0.0696	0	104	80	120		
Surr: 1,2-Dichloroethane-d4		201		200.0		100	72	119		
Surr: 4-Bromofluorobenzene		187		200.0		93.6	76	119		
Surr: Dibromofluoromethane		192		200.0		95.9	85	115		
Surr: Toluene-d8		200		200.0		99.9	81	120		
Sample ID: LCSD-104569	Batch ID:	104569		TestNo	: SW	8260D		Units:	mg/L	
SampType: LCSD	Run ID:	GCMS5	_220329A	Analys	is Date: 3/2 9	/2022 1:54:	00 PM	Prep Date:	3/29/2	022
Analyte	ı	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Q
Benzene	(0.0237	0.00100	0.0232	0	102	81	122	3.69	20
Ethylbenzene	(0.0230	0.00100	0.0232	0	99.4	80	120	3.75	20
m,p-Xylene	(0.0470	0.00200	0.0464	0	101	80	120	2.19	20
o-Xylene	(0.0236	0.00100	0.0232	0	102	80	120	3.23	20
Toluene	(0.0225	0.00200	0.0232	0	96.8	80	120	3.68	20
Total Xylenes	(0.0706	0.00100	0.0696	0	101	80	120	2.54	20
Surr: 1,2-Dichloroethane-d4		196		200.0		98.2	72	119	0	0
Surr: 4-Bromofluorobenzene		186		200.0		93.0	76	119	0	0
Surr: Dibromofluoromethane		194		200.0		97.2	85	115	0	0
Surr: Toluene-d8		201		200.0		101	81	120	0	0
Sample ID: MB-104569	Batch ID:	104569		TestNo	: SW	8260D		Units:	mg/L	
SampType: MBLK	Run ID:	GCMS5	_220329A	Analys	is Date: 3/2 9	/2022 3:25	00 PM	Prep Date:	3/29/2	022
Analyte	ı	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qu
Benzene	<0	.000300	0.00100							
Ethylbenzene	<0	.000300	0.00100							
m,p-Xylene		.000600	0.00200							
o-Xylene	<0	.000300	0.00100							
Toluene	<0	.000600	0.00200							
Total Xylenes	<0	.000300	0.00100							
Surr: 1,2-Dichloroethane-d4		196		200.0		98.0	72	119		
Surr: 4-Bromofluorobenzene		188		200.0		93.8	76	119		
Surr: Dibromofluoromethane		191		200.0		95.7	85	115		
Surr: Toluene-d8		203		200.0		101	81	120		
Ouglifiars: D Anglyta dat	acted in the co	enginted M	Inthod Plant	DE 1	Dilution Fact	or.				
,	ected in the as ected between				Dilution Factor Method Detec				1	Dogo 2 of
J Analyte det	ccica ociween	מוומ שעואי	IXL	MIDL	viemou Detec	aon Lillit			J	Page 3 of

R

S

N

RPD outside accepted control limits

Spike Recovery outside control limits

Parameter not NELAP certified

RL Reporting Limit

ND Not Detected at the Method Detection Limit

Analyte detected between SDL and RL



June 08, 2022

Brad Stephenson

GHD

14998 W 6th Ave #800

Golden, CO 80401

TEL: (720) 974-0935

FAX (432) 686-0186 Order No.: 2206016

RE: Hobbs Tank

Dear Brad Stephenson:

DHL Analytical, Inc. received 4 sample(s) on 6/2/2022 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative and all estimated uncertainties of results are within method specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

John DuPont

General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-22-28



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2300 Double Creek Dr. Round Rock, TX 78664

Phone 512.388.8222

Web: www.dhlanalytical.com Email: login@dhlanalytical.com

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ORIGIN ID:HOBA (303) 941-6156

GHD 14998 W GTH AVE STE 800 GOLDEN CO BO401 UNITED STATES US SHIP DATE: 01JUN22 ACTWGT: 24.75 LB CAD: 6994246/SSFE232 DIMS: 24x13x14 IN

BILL THIRD PARTY

TO

DHL ANALYTICAL 2300 DOUBLE CREEK DR.

ROUND ROCK TX 78664

FedEX Express

TRE# 2738 1004 6473 ## MASTER ##

A8 BSMA

THU - 02 JUN 10:30A PRIORITY OVERNIGHT AHS 78664 TX-US AUS



	Sample	Receipt Chec	CKIIST		
Client Name GHD			Date Rece	ived: 6/2	/2022
Work Order Number 2206016			Received b	y: KAO	
Checklist completed by:	6/2/2022	,	Povioused b		e/a/anaa
Signature	0/2/2022 Date		Reviewed b	Initials	6/2/2022 Date
	Carrier name:	FedEx 1day			'
Shipping container/cooler in good co	ndition?	Yes 🗹	No 🗌	Not Present	
Custody seals intact on shipping con	tainer/cooler?	Yes	No 🗌	Not Present	
Custody seals intact on sample bottle	es?	Yes	No 🗌	Not Present	2
Chain of custody present?		Yes 🗹	No 🗌		
Chain of custody signed when relinqu	uished and received?	Yes 🗹	No 🗌		
Chain of custody agrees with sample	labels?	Yes 🗹	No 🗌		
Samples in proper container/bottle?		Yes 🗸	No 🗌		
Sample containers intact?		Yes	No 🗹		
Sufficient sample volume for indicate	d test?	Yes 🗹	No 🗌		
All samples received within holding ti	me?	Yes 🗹	No 🗌		
Container/Temp Blank temperature in	n compliance?	Yes 🗸	No 🗌	3.7 °C	
Water - VOA vials have zero headsp	ace?	Yes 🗹	No 🗌	No VOA vials sub	mitted
Water - pH<2 acceptable upon receip	ot?	Yes	No 🗌	NA 🗹 LOT	¥
		Adjusted?		Checked by	
Water - ph>9 (S) or ph>10 (CN) acce	ptable upon receipt?	Yes	No 🗌	NA 🗹 LOT	¥
		Adjusted?		Checked by	
Any No response must be detailed in	the comments section below.				
Client contacted:	Date contacted:		Per	son contacted	
Contacted by:	Regarding:	Was a substantial and a substa			
Comments: One of two vials fo	r sample TRIP received broken.				
Corrective Action: Proceed with ana	alysis using unbroken vial.				

Page 1 of 1

Date: 08-Jun-22

DHL Analytical, Inc.

CLIENT: GHD

Project: Hobbs Tank CASE NARRATIVE

Lab Order: 2206016

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

CLIENT: GHD Client Sample ID: MW-4

Project: Hobbs Tank Lab ID: 2206016-01

Project No: 11224355 **Collection Date:** 06/01/22 09:15 AM

Lab Order: 2206016 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		M80 ²	15D			Analyst: BTJ
TPH-DRO C10-C28	< 0.162	0.162	0.203	mg/L	1	06/03/22 11:38 AM
Surr: Isopropylbenzene	59.5	0	25-124	%REC	1	06/03/22 11:38 AM
Surr: Octacosane	84.3	0	51-124	%REC	1	06/03/22 11:38 AM
TPH PURGEABLE BY GC - WATER		M80 ⁻	15V			Analyst: BTJ
Gasoline Range Organics	< 0.0600	0.0600	0.100	mg/L	1	06/03/22 02:47 PM
Surr: Tetrachlorethene	95.6	0	74-138	%REC	1	06/03/22 02:47 PM
8260 WATER VOLATILES BY GC/MS		SW82	60D			Analyst: JVR
Benzene	< 0.000300	0.000300	0.00100	mg/L	1	06/04/22 12:55 AM
Ethylbenzene	< 0.000300	0.000300	0.00100	mg/L	1	06/04/22 12:55 AM
m,p-Xylene	<0.000600	0.000600	0.00200	mg/L	1	06/04/22 12:55 AM
o-Xylene	< 0.000300	0.000300	0.00100	mg/L	1	06/04/22 12:55 AM
Toluene	< 0.000600	0.000600	0.00200	mg/L	1	06/04/22 12:55 AM
Total Xylenes	< 0.000300	0.000300	0.00100	mg/L	1	06/04/22 12:55 AM
Surr: 1,2-Dichloroethane-d4	98.5	0	72-119	%REC	1	06/04/22 12:55 AM
Surr: 4-Bromofluorobenzene	98.5	0	76-119	%REC	1	06/04/22 12:55 AM
Surr: Dibromofluoromethane	103	0	85-115	%REC	1	06/04/22 12:55 AM
Surr: Toluene-d8	99.9	0	81-120	%REC	1	06/04/22 12:55 AM

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

Not Detected at the Method Detection Limit

DF Dilution Factor

J Analyte detected between MDL and RL

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 08-Jun-22

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

N Parameter not NELAP certified

ND

CLIENT: GHD Client Sample ID: MW-5

Project: Hobbs Tank Lab ID: 2206016-02

Project No: 11224355 **Collection Date:** 06/01/22 09:30 AM

Lab Order: 2206016 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual Units	DF	Date Analyzed	
TPH EXTRACTABLE BY GC - WATER		M80 ²	15D			Analyst: BTJ	
TPH-DRO C10-C28	< 0.159	0.159	0.199	mg/L	1	06/03/22 11:47 AM	
Surr: Isopropylbenzene	57.3	0	25-124	%REC	1	06/03/22 11:47 AM	
Surr: Octacosane	83.1	0	51-124	%REC	1	06/03/22 11:47 AM	
TPH PURGEABLE BY GC - WATER		M80 ⁻	15V			Analyst: BTJ	
Gasoline Range Organics	< 0.0600	0.0600	0.100	mg/L	1	06/03/22 03:09 PM	
Surr: Tetrachlorethene	99.1	0	74-138	%REC	1	06/03/22 03:09 PM	
8260 WATER VOLATILES BY GC/MS		SW82	60D		Analyst: JVR		
Benzene	< 0.000300	0.000300	0.00100	mg/L	1	06/04/22 01:20 AM	
Ethylbenzene	< 0.000300	0.000300	0.00100	mg/L	1	06/04/22 01:20 AM	
m,p-Xylene	<0.000600	0.000600	0.00200	mg/L	1	06/04/22 01:20 AM	
o-Xylene	< 0.000300	0.000300	0.00100	mg/L	1	06/04/22 01:20 AM	
Toluene	<0.000600	0.000600	0.00200	mg/L	1	06/04/22 01:20 AM	
Total Xylenes	< 0.000300	0.000300	0.00100	mg/L	1	06/04/22 01:20 AM	
Surr: 1,2-Dichloroethane-d4	96.6	0	72-119	%REC	1	06/04/22 01:20 AM	
Surr: 4-Bromofluorobenzene	102	0	76-119	%REC	1	06/04/22 01:20 AM	
Surr: Dibromofluoromethane	103	0	85-115	%REC	1	06/04/22 01:20 AM	
Surr: Toluene-d8	101	0	81-120	%REC	1	06/04/22 01:20 AM	

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RLND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 08-Jun-22

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

CLIENT: GHD Client Sample ID: HTRW-1

Project: Hobbs Tank Lab ID: 2206016-03

Project No: 11224355 **Collection Date:** 06/01/22 09:45 AM

Lab Order: 2206016 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	
TPH EXTRACTABLE BY GC - WATE	R	M8015D					Analyst: BTJ	
TPH-DRO C10-C28	< 0.151	0.151	0.189		mg/L	1	06/03/22 11:56 AM	
Surr: Isopropylbenzene	51.1	0	25-124		%REC	1	06/03/22 11:56 AM	
Surr: Octacosane	81.2	0	51-124		%REC		06/03/22 11:56 AM	
TPH PURGEABLE BY GC - WATER		M80 ⁻	15V			Analyst: BTJ		
Gasoline Range Organics	< 0.0600	0.0600	0.100		mg/L		06/03/22 03:31 PM	
Surr: Tetrachlorethene	101	0	74-138		%REC	1	06/03/22 03:31 PM	
8260 WATER VOLATILES BY GC/MS	;	SW82	60D			Analyst: JVR		
Benzene	0.00153	0.000300	0.00100		mg/L	1	06/04/22 01:44 AM	
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	06/04/22 01:44 AM	
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	06/04/22 01:44 AM	
o-Xylene	< 0.000300	0.000300	0.00100		mg/L	1	06/04/22 01:44 AM	
Toluene	0.00138	0.000600	0.00200	J	mg/L	1	06/04/22 01:44 AM	
Total Xylenes	<0.000300	0.000300	0.00100		mg/L	1	06/04/22 01:44 AM	
Surr: 1,2-Dichloroethane-d4	97.5	0	72-119		%REC	1	06/04/22 01:44 AM	
Surr: 4-Bromofluorobenzene	102	0	76-119		%REC	1	06/04/22 01:44 AM	
Surr: Dibromofluoromethane	101	0	85-115		%REC	1	06/04/22 01:44 AM	
Surr: Toluene-d8	101	0	81-120		%REC	1	06/04/22 01:44 AM	

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RLND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 08-Jun-22

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

CLIENT: GHD Client Sample ID: TRIP

 Project:
 Hobbs Tank
 Lab ID: 2206016-04

 Project No:
 11224355
 Collection Date: 06/01/22

Lab Order: 2206016 Matrix: TRIP BLANK

Analyses	Result	MDL	RL	Qual Units	DF	Date Analyzed	
TPH PURGEABLE BY GC - WATER		M8015V			Analyst: BTJ		
Gasoline Range Organics	< 0.0600	0.0600	0.100	mg/L	1	06/03/22 06:25 PM	
Surr: Tetrachlorethene	82.7	0	74-138	%REC	1	06/03/22 06:25 PM	
8260 WATER VOLATILES BY GC/MS		SW82	260D			Analyst: JVR	
Benzene	< 0.000300	0.000300	0.00100	mg/L	1	06/03/22 01:32 PM	
Ethylbenzene	< 0.000300	0.000300	0.00100	mg/L	1	06/03/22 01:32 PM	
m,p-Xylene	<0.000600	0.000600	0.00200	mg/L	1	06/03/22 01:32 PM	
o-Xylene	< 0.000300	0.000300	0.00100	mg/L	1	06/03/22 01:32 PM	
Toluene	<0.000600	0.000600	0.00200	mg/L	1	06/03/22 01:32 PM	
Total Xylenes	< 0.000300	0.000300	0.00100	mg/L	1	06/03/22 01:32 PM	
Surr: 1,2-Dichloroethane-d4	97.8	0	72-119	%REC	1	06/03/22 01:32 PM	
Surr: 4-Bromofluorobenzene	104	0	76-119	%REC	1	06/03/22 01:32 PM	
Surr: Dibromofluoromethane	103	0	85-115	%REC	1	06/03/22 01:32 PM	
Surr: Toluene-d8	102	0	81-120	%REC	1	06/03/22 01:32 PM	

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RLND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 08-Jun-22

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

Date: 08-Jun-22

DHL Analytical, Inc.

CLIENT: GHD
Work Order: 2206016
Project: Hobbs Tar

ANALYTICAL QC SUMMARY REPORT

ject: Hobbs Tank RunID: GC15_220603A

Project: Hobbs I	ank				Kullii	<i>)</i> . (3C13_2200	JUJA	
The QC data in batch 105650	applies to the follow	ing samples: 220	06016-01C, 2206	6016-02C, 2	2206016-030				
Sample ID: MB-105650	Batch ID: 105	650	TestNo:	M80)15D		Units:	mg/L	
SampType: MBLK	Run ID: GC	15_220603A	Analysis	Date: 6/3/	2022 10:05:	36 AM	Prep Date:	6/2/20)22
Analyte	Resu	t RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD F	RPDLimit Qual
TPH-DRO C10-C28	<0.080	0.100							
Surr: Isopropylbenzene	0.041	9	0.1000		41.9	25	124		
Surr: Octacosane	0.083	4	0.1000		83.4	51	124		
Sample ID: LCS-105650	Batch ID: 105	650	TestNo:	M80)15D		Units:	mg/L	
SampType: LCS	Run ID: GC	15_220603A	Analysis	s Date: 6/3/	2022 10:14:	39 AM	Prep Date:	6/2/20)22
Analyte	Resu	t RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD F	RPDLimit Qual
TPH-DRO C10-C28	0.960	0.100	1.250	0	76.8	50	114		
Surr: Isopropylbenzene	0.051	2	0.1000		51.2	25	124		
Surr: Octacosane	0.086	3	0.1000		86.3	51	124		
Sample ID: LCSD-105650	Batch ID: 105	650	TestNo:	M80)15D		Units:	mg/L	
SampType: LCSD	Run ID: GC	15_220603A	Analysis	s Date: 6/3/	2022 10:23:	43 AM	Prep Date:	6/2/20)22
Analyte	Resu	t RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD F	RPDLimit Qual
TPH-DRO C10-C28	0.942	0.100	1.250	0	75.4	50	114	1.89	30
Surr: Isopropylbenzene	0.035	8	0.1000		35.8	25	124	0	0
Surr: Octacosane	0.086	2	0.1000		86.2	51	124	0	0

Qualifiers: B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

Page 1 of 3

R RPD outside accepted control limits

S Spike Recovery outside control limits

CLIENT: GHD Work Order: 2206016

ANALYTICAL QC SUMMARY REPORT

Project: Hobbs Tank RunID: GC4_220603A

The QC data in batch 105663 ap	plies to the t	following s	amples: 220	06016-01B, 2206	6016-02B, 2	2206016-03B	3, 220601	6-04A		
Sample ID: LCS-105663	Batch ID:	105663		TestNo	M8	015V		Units:	mg/L	
SampType: LCS	Run ID:	GC4_22	0603A	Analysi	s Date: 6/3 /	/2022 10:09:	29 AM	Prep Date:	6/3/20	22
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit ⁽	%RPD F	RPDLimit Qual
Gasoline Range Organics		2.78	0.100	2.500	0	111	67	136		
Surr: Tetrachlorethene		0.406		0.4000		102	74	138		
Sample ID: LCSD-105663	Batch ID:	105663		TestNo	M8	015V		Units:	mg/L	
SampType: LCSD	Run ID:	GC4_22	0603A	Analysi	s Date: 6/3 /	/2022 10:31:	38 AM	Prep Date:	6/3/20	22
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit ⁽	%RPD F	RPDLimit Qual
Gasoline Range Organics		2.79	0.100	2.500	0	112	67	136	0.159	30
Surr: Tetrachlorethene		0.412		0.4000		103	74	138	0	0
Sample ID: MB-105663	Batch ID:	105663		TestNo	M8	015V		Units:	mg/L	
SampType: MBLK	Run ID:	GC4_22	0603A	Analysi	s Date: 6/3 /	/2022 11:38:	20 AM	Prep Date:	6/3/20	22
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit ⁽	%RPD F	RPDLimit Qual
Gasoline Range Organics	<	:0.0600	0.100							
Surr: Tetrachlorethene		0.385		0.4000		96.2	74	138		
Sample ID: 2206015-01BMS	Batch ID:	105663		TestNo	M8	015V		Units:	mg/L	
SampType: MS	Run ID:	GC4_22	0603A	Analysi	s Date: 6/3 /	/2022 6:47:2	5 PM	Prep Date:	6/3/20	22
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit ⁽	%RPD F	RPDLimit Qual
Gasoline Range Organics		1.99	0.100	2.500	0	79.5	67	136		
Surr: Tetrachlorethene		0.315		0.4000		78.7	74	138		
Sample ID: 2206015-01BMSD	Batch ID:	105663		TestNo	M8	015V		Units:	mg/L	
SampType: MSD	Run ID:	GC4_22	0603A	Analysi	s Date: 6/3 /	/2022 7:09:5	6 PM	Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit ⁽	%RPD F	RPDLimit Qual
Gasoline Range Organics		2.22	0.100	2.500	0	88.8	67	136	11.1	30
Surr: Tetrachlorethene		0.334		0.4000		83.6	74	138	0	0

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

 $\begin{array}{ll} S & \text{Spike Recovery outside control limits} \\ N & \text{Parameter not NELAP certified} \end{array}$

Page 2 of 3

CLIENT: GHD Work Order: 2206016

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_220603A **Project:** Hobbs Tank

Project: Hobbs 1a						Kunii		JCNIS/_2	440U.)A
The QC data in batch 105660 a	pplies to the	following s	amples: 220	6016-01A, 22	206016-02	2A, 2206016-03A	, 220601	6-04A		
Sample ID: LCS-105660	Batch ID:	105660		TestN	lo:	SW8260D		Units:	mg/l	_
SampType: LCS	Run ID:	GCMS7	_220603A	Analy	sis Date:	6/3/2022 10:40:	00 AM	Prep Date:	6/2/2	2022
Analyte		Result	RL	SPK value	Ref V	al %REC	LowLim	nit HighLimit	%RPD	RPDLimit Qu
Benzene		0.0273	0.00100	0.0232	0	118	81	122		
Ethylbenzene		0.0275	0.00100	0.0232	0	119	80	120		
m,p-Xylene		0.0553	0.00100	0.0232	0	119	80	120		
o-Xylene		0.0274	0.00200	0.0404	0	118	80	120		
Toluene		0.0274	0.00100	0.0232	0	118	80	120		
		0.0273	0.00200	0.0232	0	119	80	120		
Total Xylenes			0.00100		U					
Surr: 1,2-Dichloroethane-d4		194		200.0		97.0	72	119		
Surr: 4-Bromofluorobenzene		197		200.0		98.6	76	119		
Surr: Dibromofluoromethane		202		200.0		101	85	115		
Surr: Toluene-d8		200		200.0		100	81	120		
Sample ID: MB-105660	Batch ID:	105660		TestN	lo:	SW8260D		Units:	mg/l	_
SampType: MBLK	Run ID:	GCMS7	_220603A	Analy	sis Date:	6/3/2022 12:19:	00 PM	Prep Date:	6/2/2	2022
Analyte		Result	RL	SPK value	Ref V	al %REC	LowLim	nit HighLimit	%RPD	RPDLimit Qu
Benzene	<0	0.000300	0.00100							
Ethylbenzene	<0	.000300	0.00100							
m,p-Xylene	<0	0.000600	0.00200							
o-Xylene	<0	0.000300	0.00100							
Toluene	<0	0.000600	0.00200							
Total Xylenes		.000300	0.00100							
Surr: 1,2-Dichloroethane-d4		191		200.0		95.7	72	119		
Surr: 4-Bromofluorobenzene		206		200.0		103	76	119		
Surr: Dibromofluoromethane		204		200.0		102	85	115		
Surr: Toluene-d8		205		200.0		102	81	120		
Sample ID: SB-220603	Batch ID:	105660		TestN	lo:	SW8260D		Units:	mg/l	_
SampType: SBLK	Run ID:		220603A			6/3/2022 6:25:0	0 PM	Prep Date:	_	
Analyte		Result	RL	SPK value	Ref V	al %REC	LowLim	nit HiahLimit	%RPD	RPDLimit Qu
				0				<u> </u>		
Benzene Ethylbonzono		0.000300	0.00100 0.00100							
Ethylbenzene m,p-Xylene		0.000300		0						
			0.00200	0						
o-Xylene		0.000300	0.00100	0						
Toluene		0.000600	0.00200	0						
Total Xylenes	<(0.000300	0.00100	0						
Surr: 1,2-Dichloroethane-d4		193		0						
Surr: 4-Bromofluorobenzene		203		0						
Surr: Dibromofluoromethane		207		0						
Surr: Toluene-d8		201		0						
Qualifiers: B Analyte de	tected in the a	ssociated M	Iethod Blank	DF	Dilution	Factor				
	tected between			MDL		Detection Limit				Page 3 of 3
•	ed at the Meth			R		side accepted cont	rol limits			1 450 5 01 5

RL Reporting Limit

Analyte detected between SDL and RL

Spike Recovery outside control limits

Parameter not NELAP certified

13



October 05, 2022

Brad Stephenson

GHD

14998 W 6th Ave #800

Golden, CO 80401

TEL: (720) 974-0935

FAX (432) 686-0186 Order No.: 2209249

RE: Hobbs Tank

Dear Brad Stephenson:

DHL Analytical, Inc. received 2 sample(s) on 9/29/2022 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative and all estimated uncertainties of results are within method specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

John DuPont

General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-22-28



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Miscellaneous Documents	3
CaseNarrative 2209249	6
Analytical Report 2209249	7
AnalyticalQCSummaryReport 2209249	9

Received by OCD: 3/29/2023 4:15:16 PM



2300 Double Creek Dr. Round Rock, TX 78664

Phone 512.388.8222

Web: www.dhlanalytical.com

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ricia sample lis.	Lab#	Date	Tille		Туре	# of Containers	뢰	H SO	NaOH 🗆	ICE □ UNPRESERVED □		втех 🖈 мтве 🗆 [метнор 8260]	TPH 1005 □ TPH 1006 □ HOLD 1006	GRO 8015 X DRO 8013X	VOC 8250 □ VOC 624.1 □	SYUC 8270 ☐ SYUC 625.1 PAH 8270 ☐ HOLD PAH ☐	PEST 8270 □ 625.1 □ O-P PEST 8270 □	PCB 8082 ☐ 608.3 ☐ PCB 8270 ☐ 625.1 ☐	HERB 8321 □ T PHOS □ AMMONIA □ METALS 6020 □ 200.8 □ DISS. METALS □	RCRA 8 TX11 D	pH□ HEX CHROM□ ALKALINITY□ COD□	ANIONS 300 □ 9056 □	TCLP-SVOC □ VOC □ PEST □ HERB □	TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐	RCI □ IGN □ DGAS □ OIL&GREASE□	TDS ☐ TSS ☐ % MOIST ☐ CYANIDE ☐			EIELI	D NOTES
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GHD 14998 W 6TH AVE STE 800

GOLDEN, CO 80401 UNITED STATES US

BILL THIRD PARTY

TO

DHL LABORITORIES 2300 DOULBE CREEK DR

ROUND ROCK TX 78664

TRK# 2785 2866 0799

A8 BSMA

THU - 29 SEP 10:30A **PRIORITY OVERN**

78664 TX-US AUS



	Sample	Receipt Check	klist		
Client Name GHD			Date Recei	ved: 9/29/2022	
Work Order Number 2209249			Received by	: KAO	
Checklist completed by: Signature	9/29/202 Date		Reviewed by	9/29/2022 Initials Date	
	Carrier name:	FedEx 1day			
Shipping container/cooler in good condition?		Yes 🗹	No 🗌	Not Present	
Custody seals intact on shipping container/cod	oler?	Yes 🗀	No 🗌	Not Present 🔽	
Custody seals intact on sample bottles?		Yes	No	Not Present	
Chain of custody present?		Yes 🗸	No		
Chain of custody signed when relinquished an	d received?	Yes 🗸	No 🗌		
Chain of custody agrees with sample labels?		Yes 🗸	No 🗔		
Samples in proper container/bottle?		Yes 🗸	No		
Sample containers intact?		Yes 🗸	No a		
Sufficient sample volume for indicated test?		Yes 🗸	No 🔛		
All samples received within holding time?		Yes 🗹	No 🗌		
Container/Temp Blank temperature in complia	nnce?	Yes 🗸	No 🗌	0.9 °C	
Water - VOA vials have zero headspace?		Yes 🗸	No	No VOA vials submitted NA	
Water - pH<2 acceptable upon receipt?		Yes 🗔	No and	NA 🗸 LOT#	
		Adjusted?		Checked by	
Water - ph>9 (S) or ph>10 (CN) acceptable up	oon receipt?	Yes	No 🗌	NA 🗹 LOT#	
		Adjusted?		Checked by	
Any No response must be detailed in the com	ments section below.				
Client contacted:	Date contacted:		Pers	son contacted	
Contacted by:	Regarding:				1
Comments					
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Corrective Action					
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Page 1 of 1

Date: 05-Oct-22

DHL Analytical, Inc.

CLIENT: GHD

Project: Hobbs Tank
Lab Order: 2209249

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition, M8015D and M8015V.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For DRO analysis by method M8015D the surrogate recovery for sample HTRW-1 was slightly above control limits Octacosane. This is flagged accordingly. The remaining surrogate was within control limits. No further corrective actions were taken.

CLIENT: GHD Client Sample ID: HTRW-1

Project: Hobbs Tank Lab ID: 2209249-01

Project No: 224355 **Collection Date:** 09/28/22 08:00 AM

Lab Order: 2209249 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATE	:R	M80 ²	15D				Analyst: BTJ
TPH-DRO C10-C28	0.321	0.148	0.185		mg/L	1	09/30/22 01:06 PM
Surr: Isopropylbenzene	54.9	0	25-124		%REC	1	09/30/22 01:06 PM
Surr: Octacosane	134	0	51-124	S	%REC	1	09/30/22 01:06 PM
TPH PURGEABLE BY GC - WATER		M80 ⁻	15V				Analyst: BTJ
Gasoline Range Organics	< 0.0600	0.0600	0.100		mg/L	1	10/03/22 03:49 PM
Surr: Tetrachlorethene	76.3	0	74-138		%REC	1	10/03/22 03:49 PM
8260 WATER VOLATILES BY GC/M	S	SW82	60D				Analyst: JVR
Benzene	0.000429	0.000300	0.00100	J	mg/L	1	09/29/22 06:47 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/29/22 06:47 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	09/29/22 06:47 PM
o-Xylene	< 0.000300	0.000300	0.00100		mg/L	1	09/29/22 06:47 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	09/29/22 06:47 PM
Surr: 1,2-Dichloroethane-d4	94.4	0	72-119		%REC	1	09/29/22 06:47 PM
Surr: 4-Bromofluorobenzene	97.4	0	76-119		%REC	1	09/29/22 06:47 PM
Surr: Dibromofluoromethane	97.6	0	85-115		%REC	1	09/29/22 06:47 PM
Surr: Toluene-d8	103	0	81-120		%REC	1	09/29/22 06:47 PM

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RLND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 05-Oct-22

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

CLIENT: GHD Client Sample ID: Trip

Project: Hobbs Tank Lab ID: 2209249-02

Project No: 224355 **Collection Date:** 09/28/22 08:00 AM

Lab Order: 2209249 Matrix: TRIP BLANK

Analyses	Result	MDL	RL	Qual Units	DF	Date Analyzed
TPH PURGEABLE BY GC - WATER		M801	15V			Analyst: BTJ
Gasoline Range Organics	< 0.0600	0.0600	0.100	mg/L	1	10/03/22 01:06 PM
Surr: Tetrachlorethene	92.6	0	74-138	%REC	1	10/03/22 01:06 PM
8260 WATER VOLATILES BY GC/MS		SW82	60D			Analyst: JVR
Benzene	< 0.000300	0.000300	0.00100	mg/L	1	09/29/22 12:44 PM
Ethylbenzene	< 0.000300	0.000300	0.00100	mg/L	1	09/29/22 12:44 PM
m,p-Xylene	< 0.000600	0.000600	0.00200	mg/L	1	09/29/22 12:44 PM
o-Xylene	< 0.000300	0.000300	0.00100	mg/L	1	09/29/22 12:44 PM
Toluene	< 0.000600	0.000600	0.00200	mg/L	1	09/29/22 12:44 PM
Surr: 1,2-Dichloroethane-d4	95.7	0	72-119	%REC	1	09/29/22 12:44 PM
Surr: 4-Bromofluorobenzene	99.3	0	76-119	%REC	1	09/29/22 12:44 PM
Surr: Dibromofluoromethane	97.4	0	85-115	%REC	1	09/29/22 12:44 PM
Surr: Toluene-d8	101	0	81-120	%REC	1	09/29/22 12:44 PM

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RLND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 05-Oct-22

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

Date: 05-Oct-22

DHL Analytical, Inc.

CLIENT: GHD
Work Order: 2209249
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GC15 220930A

Project: Hobbs 1	ank				Kullii	, (3C13_2203	JUA	
The QC data in batch 107179	applies to the follow	wing samples: 220	09249-01C						
Sample ID: MB-107179	Batch ID: 10	7179	TestNo:	M801	15D		Units:	mg/L	
SampType: MBLK	Run ID: GO	C15_220930A	Analysis	Date: 9/30/	2022 11:08	3:02 AM	Prep Date:	9/29/2	022
Analyte	Resi	ult RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qua
TPH-DRO C10-C28	<0.08	300 0.100							
Surr: Isopropylbenzene	0.07	37	0.1000		73.7	25	124		
Surr: Octacosane	0.08	71	0.1000		87.1	51	124		
Sample ID: LCS-107179	Batch ID: 10	7179	TestNo:	M801	15D		Units:	mg/L	
SampType: LCS	Run ID: GO	C15_220930A	Analysis	Date: 9/30/	2022 11:17	':06 AM	Prep Date:	9/29/2	022
Analyte	Resi	ult RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qua
TPH-DRO C10-C28	1.18	8 0.100	1.250	0	94.7	50	114		
Surr: Isopropylbenzene	0.07	28	0.1000		72.8	25	124		
Surr: Octacosane	0.08	62	0.1000		86.2	51	124		
Sample ID: LCSD-107179	Batch ID: 10	7179	TestNo:	M801	15D		Units:	mg/L	
SampType: LCSD	Run ID: G(C15_220930A	Analysis	Date: 9/30/	2022 11:26	6:09 AM	Prep Date:	9/29/2	022
Analyte	Resi	ult RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qua
TPH-DRO C10-C28	1.18	8 0.100	1.250	0	94.7	50	114	0.017	30
Surr: Isopropylbenzene	0.07	72	0.1000		77.2	25	124	0	0
Surr: Octacosane	0.089	96	0.1000		89.6	51	124	0	0

Qualifiers: B Analyte detected in the associated Method Blank

 $J \quad \ \ Analyte \ detected \ between \ MDL \ and \ RL$

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

Page 1 of 4

R RPD outside accepted control limits

S Spike Recovery outside control limits

Page 2 of 4

CLIENT: GHD Work Order: 2209249

ANALYTICAL QC SUMMARY REPORT

Project: Hobbs Tank RunID: GC4_221003A

The QC data in batch 107221 ap	plies to the f	following s	amples: 220	9249-01B, 2209	9249-02B					
Sample ID: LCS-107221	Batch ID:	107221		TestNo:	M80	015V		Units:	mg/L	
SampType: LCS	Run ID:	GC4_22	1003A	Analysis	s Date: 10/3	3/2022 10:45	5:39 AM	Prep Date:	10/3/2	022
Analyte	ı	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qual
Gasoline Range Organics Surr: Tetrachlorethene		2.50 0.353	0.100	2.500 0.4000	0	100 88.3	67 74	136 138		
Sample ID: LCSD-107221	Batch ID:	107221		TestNo:	M80	015V		Units:	mg/L	
SampType: LCSD	Run ID:	GC4_22	1003A	Analysis	s Date: 10/3	3/2022 11:10):20 AM	Prep Date:	10/3/2	022
Analyte	ı	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qual
Gasoline Range Organics Surr: Tetrachlorethene		2.65 0.366	0.100	2.500 0.4000	0	106 91.5	67 74	136 138	5.83 0	30 0
Sample ID: MB-107221	Batch ID:	107221		TestNo:	M80	015V		Units:	mg/L	
SampType: MBLK	Run ID:	GC4_22	1003A	Analysis	s Date: 10/3	3/2022 12:21	:11 PM	Prep Date:	10/3/2	022
Analyte	ı	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qual
Gasoline Range Organics Surr: Tetrachlorethene		0.0600 0.380	0.100	0.4000		95.1	74	138		
Sample ID: 2209248-06BMS	Batch ID:	107221		TestNo:	M80	015V		Units:	mg/L	
SampType: MS	Run ID:	GC4_22	1003A	Analysis	s Date: 10/3	3/2022 6:07:	40 PM	Prep Date:	10/3/2	022
Analyte	ļ	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qual
Gasoline Range Organics Surr: Tetrachlorethene		2.02 0.313	0.100	2.500 0.4000	0	80.9 78.2	67 74	136 138		
Sample ID: 2209248-06BMSD	Batch ID:	107221		TestNo:	M80	015V		Units:	mg/L	
SampType: MSD	Run ID:	GC4_22	1003A	Analysis	s Date: 10/3	3/2022 6:30:	04 PM	Prep Date:	10/3/2	022
Analyte	1	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qual
Gasoline Range Organics Surr: Tetrachlorethene		2.29 0.345	0.100	2.500 0.4000	0	91.6 86.2	67 74	136 138	12.4 0	30 0

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

CLIENT: GHD Work Order: 2209249

ANALYTICAL QC SUMMARY REPORT

Project: Hobbs Tank RunID: GCMS5_220929B

The QC data in batch 107184 ap	oplies to the	following	samples: 220	9249-01A, 220	9249-02A					
Sample ID: LCS-107184	Batch ID:	107184		TestNo	SW	8260D		Units:	mg/L	
SampType: LCS	Run ID:	GCMS	5_220929B	Analys	is Date: 9/2 9	/2022 10:34	4:00 AM	Prep Date:	9/29/2	2022
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit ⁽	%RPD F	RPDLimit Qual
Benzene		0.0239	0.00100	0.0232	0	103	81	122		
Ethylbenzene		0.0238	0.00100	0.0232	0	103	80	120		
m,p-Xylene		0.0487	0.00200	0.0464	0	105	80	120		
o-Xylene		0.0244	0.00100	0.0232	0	105	80	120		
Toluene		0.0238	0.00200	0.0232	0	103	80	120		
Surr: 1,2-Dichloroethane-d4		188		200.0		93.8	72	119		
Surr: 4-Bromofluorobenzene		197		200.0		98.3	76	119		
Surr: Dibromofluoromethane		195		200.0		97.6	85	115		
Surr: Toluene-d8		203		200.0		102	81	120		
Sample ID: MB-107184	Batch ID:	107184		TestNo	o: SW	8260D		Units:	mg/L	
SampType: MBLK	Run ID:	GCMS5	5_220929B	Analys	is Date: 9/2 9	/2022 11:20	6:00 AM	Prep Date:	9/29/2	2022
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit ⁴	%RPD F	RPDLimit Qual
Benzene	<(0.000300	0.00100							
Ethylbenzene	<(0.000300	0.00100							
m,p-Xylene	<(0.000600	0.00200							
o-Xylene	<(0.000300	0.00100							
Toluene	<(0.000600	0.00200							
Surr: 1,2-Dichloroethane-d4		193		200.0		96.3	72	119		
Surr: 4-Bromofluorobenzene		201		200.0		100	76	119		
Surr: Dibromofluoromethane		194		200.0		97.2	85	115		
Surr: Toluene-d8		204		200.0		102	81	120		
Sample ID: 2209190-01AMSD	Batch ID:	107184		TestNo	o: SW	8260D		Units:	mg/L	
SampType: MSD	Run ID:	GCMS5	5_220929B	Analys	is Date: 9/2 9	/2022 7:38:	00 PM	Prep Date:	9/29/2	2022
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit ⁽	%RPD F	RPDLimit Qual
Benzene		0.246	0.0100	0.232	0	106	81	122	5.04	20
Ethylbenzene		0.245	0.0100	0.232	0	106	80	120	2.62	20
m,p-Xylene		0.501	0.0200	0.464	0	108	80	120	1.65	20
o-Xylene		0.248	0.0100	0.232	0	107	80	120	3.18	20
Toluene		0.247	0.0200	0.232	0	106	80	120	5.04	20
Surr: 1,2-Dichloroethane-d4		1880		2000		94.1	72	119	0	0
Surr: 4-Bromofluorobenzene		1970		2000		98.3	76	119	0	0
Surr: Dibromofluoromethane		1950		2000		97.6	85	115	0	0
Surr: Toluene-d8		2000		2000		100	81	120	0	0

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

Page 3 of 4

CLIENT: GHD Work Order: 2209249

Hobbs Tank

Project:

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_220929B

Sample ID: SB-221004 SampType: SBLK	Batch ID: 107184 Run ID: GCMS5	_220929B	TestNo Analysi	: SW 8 s Date: 10/4	3260D /2022 11:20):00 AM	Units: Prep Date	mg/L	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD RF	DLimit Qual
Benzene	<0.000300	0.00100	0						
Ethylbenzene	< 0.000300	0.00100	0						
m,p-Xylene	<0.000600	0.00200	0						
o-Xylene	<0.000300	0.00100	0						
Toluene	<0.000600	0.00200	0						
Surr: 1,2-Dichloroethane-d4	191		0						
Surr: 4-Bromofluorobenzene	196		0						
Surr: Dibromofluoromethane	194		0						
Surr: Toluene-d8	200		0						

Sample ID: 2209190-01AMS	Batch ID:	107184		TestNo	o: SW 8	3260D		Units:	mg/L
SampType: MS	Run ID:	GCMS5	5_220929B	Analys	is Date: 10/4	/2022 11:40	6:00 AM	Prep Date:	9/29/2022
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit 9	%RPD RPDLimit Qual
Benzene		0.259	0.0100	0.232	0	112	81	122	
Ethylbenzene		0.252	0.0100	0.232	0	108	80	120	
m,p-Xylene		0.509	0.0200	0.464	0	110	80	120	
o-Xylene		0.256	0.0100	0.232	0	110	80	120	
Toluene		0.260	0.0200	0.232	0	112	80	120	
Surr: 1,2-Dichloroethane-d4		1880		2000		93.8	72	119	
Surr: 4-Bromofluorobenzene		1920		2000		96.0	76	119	
Surr: Dibromofluoromethane		1990		2000		99.4	85	115	
Surr: Toluene-d8		2000		2000		100	81	120	

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

Page 4 of 4

R RPD outside accepted control limits

S Spike Recovery outside control limits



December 19, 2022

Order No.: 2212066

Brad Stephenson

GHD

14998 W 6th Ave #800

Golden, CO 80401

TEL: (720) 974-0935

FAX (432) 686-0186

RE: Hobbs Tank

Dear Brad Stephenson:

DHL Analytical, Inc. received 5 sample(s) on 12/8/2022 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative and all estimated uncertainties of results are within method specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

John DuPont

General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-22-28



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Analytical Report 2212066	7
AnalyticalQCSummaryReport 2212066	12



2300 Double Creek Dr. Round Rock, TX 78664 Phone 512.388.8222

Web: www.dhlanalytical.com

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TO DHL ANALYTICAL
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664

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1 of 2 TRK# 3918 2659 2466 ## MASTER ##

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78664 TX-US **AUS**



Client Name: GHD			Date Receiv	/ed: 12/8/20	22	
Work Order Number: 2212066			Received by	: KAO		
ς,						
Checklist completed by:	12/8/202	22	Reviewed by	v: (04)	12/8/2022
Signature	Date			Initials		Date
Can	rier name:	FedEx 1day				
Shipping container/cooler in good condition?		Yes 🗹	No 🗌	Not Preser	nt 🗌	
Custody seals intact on shipping container/cooler?		Yes	No 🗌	Not Prese	nt 🗹	
Custody seals intact on sample bottles?		Yes	No 🗌	Not Prese	nt 🗹	
Chain of custody present?		Yes 🗹	No 🗌			
Chain of custody signed when relinquished and received?		Yes 🗹	No 🗌			
Chain of custody agrees with sample labels?		Yes 🗹	No 🗌			
Samples in proper container/bottle?		Yes 🗸	No 🗌			
Sample containers intact?		Yes 🗸	No 🗌			
Sufficient sample volume for indicated test?		Yes 🗸	No 🗆			
All samples received within holding time?		Yes 🗹	No 🗌			
Water - VOA vials have zero headspace?		Yes 🗹	No 🗌	No VOA vial	s submitted	\square NA \square
Water - pH<2 acceptable upon receipt?		Yes	No 🗌	NA 🗹	LOT#	
		Adjusted?		Checked	l by	
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?		Yes	No 🗌	NA 🗹	LOT#	
		Adjusted?		Checked	by	
Container/Temp Blank temperature in compliance?		Yes 🗹	No 🗌			
Cooler# 1						
Temp °C 5.6						
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Any No response must be detailed in the comments section	on below.					
Client contacted: Date cont	tacted:		Per	rson contacte	d:	Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Sa
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Corrective Action:						

Sample Receipt Checklist

Date: 19-Dec-22

DHL Analytical, Inc.

CLIENT: GHD

Project: Hobbs Tank CASE NARRATIVE

Lab Order: 2212066

Samples were analyzed using the methods outlined in the following references:

M8015D, M8015V and SW8260D.

For DRO analysis an MS/MSD was not performed due to insufficient sample volume. An LCS/LCSD was performed instead.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

CLIENT: GHD Client Sample ID: HTRW-1

Project: Hobbs Tank Lab ID: 2212066-01

Project No: 11224355 **Collection Date:** 12/07/22 08:30 AM

Lab Order: 2212066 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		M80 ²	15D			Analyst: BTJ
TPH-DRO C10-C28	< 0.149	0.149	0.186	mg/L	1	12/15/22 02:23 PM
Surr: Isopropylbenzene	77.4	0	25-124	%REC	1	12/15/22 02:23 PM
Surr: Octacosane	84.2	0	51-124	%REC	1	12/15/22 02:23 PM
TPH PURGEABLE BY GC - WATER		M80 ⁻	15V			Analyst: BTJ
Gasoline Range Organics	< 0.0600	0.0600	0.100	mg/L	1	12/13/22 01:09 PM
Surr: Tetrachlorethene	98.9	0	74-138	%REC	1	12/13/22 01:09 PM
8260 WATER VOLATILES BY GC/MS		SW82	60D			Analyst: JVR
Benzene	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 06:12 PM
Ethylbenzene	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 06:12 PM
m,p-Xylene	<0.000600	0.000600	0.00200	mg/L	1	12/08/22 06:12 PM
o-Xylene	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 06:12 PM
Toluene	<0.000600	0.000600	0.00200	mg/L	1	12/08/22 06:12 PM
Total Xylenes	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 06:12 PM
Surr: 1,2-Dichloroethane-d4	91.6	0	72-119	%REC	1	12/08/22 06:12 PM
Surr: 4-Bromofluorobenzene	100	0	76-119	%REC	1	12/08/22 06:12 PM
Surr: Dibromofluoromethane	96.7	0	85-115	%REC	1	12/08/22 06:12 PM
Surr: Toluene-d8	101	0	81-120	%REC	1	12/08/22 06:12 PM

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RLND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 19-Dec-22

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

CLIENT: GHD Client Sample ID: MW5

Project: Hobbs Tank Lab ID: 2212066-02

Project No: 11224355 **Collection Date:** 12/07/22 08:50 AM

Lab Order: 2212066 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		M80 ²	15D			Analyst: BTJ
TPH-DRO C10-C28	< 0.147	0.147	0.184	mg/L	1	12/15/22 02:32 PM
Surr: Isopropylbenzene	82.1	0	25-124	%REC	1	12/15/22 02:32 PM
Surr: Octacosane	78.8	0	51-124	%REC	1	12/15/22 02:32 PM
TPH PURGEABLE BY GC - WATER		M80 ⁻	15V			Analyst: BTJ
Gasoline Range Organics	< 0.0600	0.0600	0.100	mg/L	1	12/13/22 01:32 PM
Surr: Tetrachlorethene	99.2	0	74-138	%REC	1	12/13/22 01:32 PM
8260 WATER VOLATILES BY GC/MS		SW82	60D			Analyst: JVR
Benzene	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 06:38 PM
Ethylbenzene	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 06:38 PM
m,p-Xylene	<0.000600	0.000600	0.00200	mg/L	1	12/08/22 06:38 PM
o-Xylene	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 06:38 PM
Toluene	<0.000600	0.000600	0.00200	mg/L	1	12/08/22 06:38 PM
Total Xylenes	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 06:38 PM
Surr: 1,2-Dichloroethane-d4	91.1	0	72-119	%REC	1	12/08/22 06:38 PM
Surr: 4-Bromofluorobenzene	101	0	76-119	%REC	1	12/08/22 06:38 PM
Surr: Dibromofluoromethane	97.3	0	85-115	%REC	1	12/08/22 06:38 PM
Surr: Toluene-d8	100	0	81-120	%REC	1	12/08/22 06:38 PM

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RLND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 19-Dec-22

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

CLIENT: GHD Client Sample ID: MW5D

Project: Hobbs Tank Lab ID: 2212066-03

Project No: 11224355 **Collection Date:** 12/07/22 08:50 AM

Lab Order: 2212066 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		M80 ²	15D			Analyst: BTJ
TPH-DRO C10-C28	<0.148	0.148	0.186	mg/L	1	12/15/22 02:41 PM
Surr: Isopropylbenzene	72.6	0	25-124	%REC	1	12/15/22 02:41 PM
Surr: Octacosane	79.9	0	51-124	%REC	1	12/15/22 02:41 PM
TPH PURGEABLE BY GC - WATER		M80 ⁻	15V			Analyst: BTJ
Gasoline Range Organics	< 0.0600	0.0600	0.100	mg/L	1	12/13/22 01:53 PM
Surr: Tetrachlorethene	99.2	0	74-138	%REC	1	12/13/22 01:53 PM
8260 WATER VOLATILES BY GC/MS		SW82	60D			Analyst: JVR
Benzene	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 07:04 PM
Ethylbenzene	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 07:04 PM
m,p-Xylene	< 0.000600	0.000600	0.00200	mg/L	1	12/08/22 07:04 PM
o-Xylene	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 07:04 PM
Toluene	< 0.000600	0.000600	0.00200	mg/L	1	12/08/22 07:04 PM
Total Xylenes	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 07:04 PM
Surr: 1,2-Dichloroethane-d4	91.4	0	72-119	%REC	1	12/08/22 07:04 PM
Surr: 4-Bromofluorobenzene	101	0	76-119	%REC	1	12/08/22 07:04 PM
Surr: Dibromofluoromethane	97.1	0	85-115	%REC	1	12/08/22 07:04 PM
Surr: Toluene-d8	100	0	81-120	%REC	1	12/08/22 07:04 PM

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

Not Detected at the Method Detection Limit

DF Dilution Factor

J Analyte detected between MDL and RL

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 19-Dec-22

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

N Parameter not NELAP certified

ND

Date: 19-Dec-22

DHL Analytical, Inc.

CLIENT: GHD Client Sample ID: MW4

Project: Hobbs Tank Lab ID: 2212066-04

Project No: 11224355 **Collection Date:** 12/07/22 09:15 AM

Lab Order: 2212066 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		M80 ²	15D			Analyst: BTJ
TPH-DRO C10-C28	< 0.157	0.157	0.197	mg/L	1	12/15/22 02:50 PM
Surr: Isopropylbenzene	78.9	0	25-124	%REC	1	12/15/22 02:50 PM
Surr: Octacosane	82.4	0	51-124	%REC	1	12/15/22 02:50 PM
TPH PURGEABLE BY GC - WATER		M80 ⁻	15V			Analyst: BTJ
Gasoline Range Organics	< 0.0600	0.0600	0.100	mg/L	1	12/13/22 02:15 PM
Surr: Tetrachlorethene	100	0	74-138	%REC	1	12/13/22 02:15 PM
8260 WATER VOLATILES BY GC/MS		SW82	60D			Analyst: JVR
Benzene	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 07:30 PM
Ethylbenzene	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 07:30 PM
m,p-Xylene	<0.000600	0.000600	0.00200	mg/L	1	12/08/22 07:30 PM
o-Xylene	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 07:30 PM
Toluene	<0.000600	0.000600	0.00200	mg/L	1	12/08/22 07:30 PM
Total Xylenes	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 07:30 PM
Surr: 1,2-Dichloroethane-d4	89.6	0	72-119	%REC	1	12/08/22 07:30 PM
Surr: 4-Bromofluorobenzene	98.9	0	76-119	%REC	1	12/08/22 07:30 PM
Surr: Dibromofluoromethane	97.9	0	85-115	%REC	1	12/08/22 07:30 PM
Surr: Toluene-d8	101	0	81-120	%REC	1	12/08/22 07:30 PM

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RLND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

CLIENT: GHD Client Sample ID: Trip

Project: Hobbs Tank
 Lab ID: 2212066-05

 Project No: 11224355
 Collection Date: 12/07/22

Lab Order: 2212066 Matrix: TRIP BLANK

Analyses	Result	MDL	RL	Qual Units	DF	Date Analyzed
TPH PURGEABLE BY GC - WATER		M80 ⁻	15V			Analyst: BTJ
Gasoline Range Organics	< 0.0600	0.0600	0.100	mg/L	1	12/13/22 12:25 PM
Surr: Tetrachlorethene	99.5	0	74-138	%REC	1	12/13/22 12:25 PM
8260 WATER VOLATILES BY GC/MS		SW82	60D			Analyst: JVR
Benzene	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 04:28 PM
Ethylbenzene	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 04:28 PM
m,p-Xylene	<0.000600	0.000600	0.00200	mg/L	1	12/08/22 04:28 PM
o-Xylene	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 04:28 PM
Toluene	<0.000600	0.000600	0.00200	mg/L	1	12/08/22 04:28 PM
Total Xylenes	< 0.000300	0.000300	0.00100	mg/L	1	12/08/22 04:28 PM
Surr: 1,2-Dichloroethane-d4	92.6	0	72-119	%REC	1	12/08/22 04:28 PM
Surr: 4-Bromofluorobenzene	101	0	76-119	%REC	1	12/08/22 04:28 PM
Surr: Dibromofluoromethane	95.3	0	85-115	%REC	1	12/08/22 04:28 PM
Surr: Toluene-d8	100	0	81-120	%REC	1	12/08/22 04:28 PM

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RLND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 19-Dec-22

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

Date: 19-Dec-22

DHL Analytical, Inc.

CLIENT: GHD
Work Order: 2212066
Project: Hobbs Tar

ANALYTICAL QC SUMMARY REPORT

ect: Hobbs Tank RunID: GC15_221215A

110jecti 110005 1	unix				1101111	•			
The QC data in batch 108077	applies to the fol	lowing samples: 22	212066-01C, 2212	066-02C, 2	2212066-030	C, 221206	6-04C		
Sample ID: LCS-108077	Batch ID: 1	108077	TestNo:	M80)15D		Units:	mg/L	
SampType: LCS	Run ID:	GC15_221215A	Analysis	Date: 12/1	5/2022 1:15	5:40 PM	Prep Date:	12/13/	2022
Analyte	Re	esult RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	RPD R	PDLimit Qual
TPH-DRO C10-C28	0.	991 0.100	1.250	0	79.2	50	114		
Surr: Isopropylbenzene	0.0	0683	0.1000		68.3	25	124		
Surr: Octacosane	0.0	0833	0.1000		83.3	51	124		
Sample ID: LCSD-108077	Batch ID: 1	108077	TestNo:	M80)15D		Units:	mg/L	
SampType: LCSD	Run ID:	GC15_221215A	Analysis	Date: 12/1	5/2022 1:24	1:44 PM	Prep Date:	12/13/	2022
Analyte	Re	esult RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	RPD R	PDLimit Qual
TPH-DRO C10-C28	0.	939 0.100	1.250	0	75.1	50	114	5.33	30
Surr: Isopropylbenzene	0.0	0865	0.1000		86.5	25	124	0	0
Surr: Octacosane	0.0	0835	0.1000		83.5	51	124	0	0
Sample ID: MB-108077	Batch ID: 1	108077	TestNo:	M80)15D		Units:	mg/L	
SampType: MBLK	Run ID:	GC15_221215A	Analysis	Date: 12/1	5/2022 4:01	:25 PM	Prep Date:	12/13/	2022
Analyte	Re	esult RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	RPD R	PDLimit Qual
TPH-DRO C10-C28	<0.	0800 0.100							
Surr: Isopropylbenzene	0.0	0803	0.1000		80.3	25	124		
Surr: Octacosane	0.0	0966	0.1000		96.6	51	124		

Qualifiers: B Analyte detected in the associated Method Blank

 $J \quad \ \ Analyte \ detected \ between \ MDL \ and \ RL$

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

Page 1 of 4

R RPD outside accepted control limits

S Spike Recovery outside control limits

CLIENT: GHD Work Order: 2212066

ANALYTICAL QC SUMMARY REPORT

Project: Hobbs Tank RunID: GC4_221213A

The QC data in batch 108080 ap	plies to the f	ollowing	samples: 221	2066-01B, 2212	2066-02B, 2	2212066-03E	3, 221206	6-04B, 22120	66-05B	
Sample ID: LCS-108080	Batch ID:	108080		TestNo:	M80	015V		Units:	mg/L	
SampType: LCS	Run ID:	GC4_22	21213A	Analysis	s Date: 12/ 1	13/2022 10:3	33:24 A	Prep Date:	12/13/	2022
Analyte	ı	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	%RPD R	PDLimit Qual
Gasoline Range Organics		2.88	0.100	2.500	0	115	67	136		
Surr: Tetrachlorethene		0.354		0.4000		88.6	74	138		
Sample ID: LCSD-108080	Batch ID:	108080		TestNo:	М80	015V		Units:	mg/L	
SampType: LCSD	Run ID:	GC4_22	21213A	Analysis	s Date: 12/ 1	13/2022 10:5	55:45 A	Prep Date:	12/13/	2022
Analyte	ı	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit 🤋	%RPD R	PDLimit Qual
Gasoline Range Organics		2.98	0.100	2.500	0	119	67	136	3.35	30
Surr: Tetrachlorethene		0.377		0.4000		94.2	74	138	0	0
Sample ID: MB-108080	Batch ID:	108080		TestNo:	M80	015V		Units:	mg/L	
SampType: MBLK	Run ID:	GC4_22	21213A	Analysis	s Date: 12/ 1	13/2022 12:0	02:46 P	Prep Date:	12/13/	2022
Analyte	ı	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	%RPD R	PDLimit Qual
Gasoline Range Organics	<	0.0600	0.100							
Surr: Tetrachlorethene		0.383		0.4000		95.7	74	138		
Sample ID: 2212067-03BMS	Batch ID:	108080		TestNo:	М80	015V		Units:	mg/L	
SampType: MS	Run ID:	GC4_22	21213A	Analysis	s Date: 12/ 1	13/2022 7:04	1:37 PM	Prep Date:	12/13/	2022
Analyte	I	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	%RPD R	PDLimit Qual
Gasoline Range Organics		2.04	0.100	2.500	0	81.4	67	136		
Surr: Tetrachlorethene		0.305		0.4000		76.2	74	138		
Sample ID: 2212067-03BMSD	Batch ID:	108080		TestNo:	М80	015V		Units:	mg/L	
SampType: MSD	Run ID:	GC4_22	21213A	Analysis	s Date: 12/ 1	13/2022 7:27	7:28 PM	Prep Date:	12/13/	2022
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit 9	%RPD R	PDLimit Qual
Gasoline Range Organics		2.49	0.100	2.500	0	99.6	67	136	20.1	30
Surr: Tetrachlorethene		0.353		0.4000		88.4	74	138	0	0

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

 $R \quad \ RPD \ outside \ accepted \ control \ \ limits$

 $\begin{array}{ll} S & \text{Spike Recovery outside control limits} \\ N & \text{Parameter not NELAP certified} \end{array}$

ection Limit Page 2 of 4

CLIENT: GHD Work Order: 2212066

ANALYTICAL QC SUMMARY REPORT

Project: Hobbs Tank RunID: GCMS5_221208A

Project: Hobbs 1	ank					Kunii	υ: (JCIVISS_24	212U8A
The QC data in batch 108041 a	applies to the	following	samples: 221	2066-01A, 22	12066-02A, 2	2212066-03	A, 221206	6-04A, 22120	66-05A
Sample ID: LCS-108041	Batch ID:	108041		TestN	lo: SW	8260D		Units:	mg/L
SampType: LCS	Run ID:	GCMS	5_221208A	Analy	sis Date: 12/8	3/2022 2:30:	:00 PM	Prep Date:	12/8/2022
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPDLimit Qua
Benzene		0.0256	0.00100	0.0232	0	110	81	122	
Ethylbenzene		0.0254	0.00100	0.0232	0	110	80	120	
m,p-Xylene		0.0519	0.00200	0.0464	0	112	80	120	
o-Xylene		0.0262	0.00100	0.0232	0	113	80	120	
Toluene		0.0260	0.00200	0.0232	0	112	80	120	
Total Xylenes		0.0781	0.00100	0.0696	0	112	80	120	
Surr: 1,2-Dichloroethane-d4		182		200.0		90.8	72	119	
Surr: 4-Bromofluorobenzene		193		200.0		96.3	76	119	
Surr: Dibromofluoromethane		199		200.0		99.4	85	115	
Surr: Toluene-d8		196		200.0		97.8	81	120	
Sample ID: MB-108041	Batch ID:	108041		TestN	lo: SW	8260D		Units:	mg/L
SampType: MBLK	Run ID:	GCMS	5_221208A	Analy	sis Date: 12/8	3/2022 4:02	:00 PM	Prep Date:	12/8/2022
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPDLimit Qua
Benzene	<1	0.000300	0.00100						
Ethylbenzene	<(0.000300	0.00100						
m,p-Xylene	<(0.000600	0.00200						
o-Xylene	<(0.000300	0.00100						
Toluene	<(0.000600	0.00200						
Total Xylenes	<(0.000300	0.00100						
Surr: 1,2-Dichloroethane-d4		185		200.0		92.4	72	119	
Surr: 4-Bromofluorobenzene		203		200.0		102	76	119	
Surr: Dibromofluoromethane		191		200.0		95.6	85	115	
Surr: Toluene-d8		199		200.0		99.7	81	120	
Sample ID: SB-221209	Batch ID:	108041		TestN	lo: SW	8260D		Units:	mg/L
SampType: SBLK	Run ID:	GCMS	5_221208A	Analy	sis Date: 12/9	9/2022 2:16:	:00 PM	Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPDLimit Qua
Benzene	<(0.000300	0.00100	0					
Ethylbenzene	<(0.000300	0.00100	0					
m,p-Xylene	<(0.000600	0.00200	0					
o-Xylene	<(0.000300	0.00100	0					
Toluene	<(0.000600	0.00200	0					
Total Xylenes	<(0.000300	0.00100	0					
Surr: 1,2-Dichloroethane-d4		188		0					
Surr: 4-Bromofluorobenzene		196		0					
Surr: Dibromofluoromethane		192		0					
Surr: Toluene-d8		206		0					
Qualifiers: B Analyte do	etected in the a	ssociated N	Method Blank	DF	Dilution Factor	or			
•	etected between			MDL	Method Detec				Page 3 of 4
	ted at the Meth			R	RPD outside		trol limits		1 age 3 01 4
RL Reporting		2010011		S	Spike Recove			3	
RE Reporting					- PINC ROCOVO			•	

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Parameter not NELAP certified

Analyte detected between SDL and RL

CLIENT: GHD
Work Order: 2212066
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_221208A

Sample ID: 2212072-06AMS	Batch ID:	108041		TestNo	: SW	/8260D		Units:	mg/L
SampType: MS	Run ID:	GCMS	5_221208A	Analys	is Date: 12/	9/2022 4:00:0	00 PM	Prep Date	2: 12/8/2022
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD RPDLimit Qual
Benzene		0.0256	0.00100	0.0232	0	110	81	122	
Ethylbenzene		0.0265	0.00100	0.0232	0	114	80	120	
m,p-Xylene		0.0540	0.00200	0.0464	0	116	80	120	
o-Xylene		0.0270	0.00100	0.0232	0	117	80	120	
Toluene		0.0259	0.00200	0.0232	0	112	80	120	
Total Xylenes		0.0810	0.00100	0.0696	0	116	80	120	
Surr: 1,2-Dichloroethane-d4		176		200.0		88.2	72	119	
Surr: 4-Bromofluorobenzene		193		200.0		96.5	76	119	
Surr: Dibromofluoromethane		180		200.0		90.2	85	115	
Surr: Toluene-d8		203		200.0		102	81	120	

Sample ID: 2212072-06AMSD	Batch ID:	108041		TestNo	: SW	/8260D		Units:	mg/	L
SampType: MSD	Run ID:	GCMS	5_221208A	Analys	is Date: 12/ 9	9/2022 4:27:	00 PM	Prep Date	ep Date: 12/8/2022	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD	RPDLimit Qual
Benzene		0.0242	0.00100	0.0232	0	104	81	122	5.70	20
Ethylbenzene		0.0251	0.00100	0.0232	0	108	80	120	5.47	20
m,p-Xylene		0.0513	0.00200	0.0464	0	111	80	120	5.12	20
o-Xylene		0.0256	0.00100	0.0232	0	110	80	120	5.38	20
Toluene		0.0244	0.00200	0.0232	0	105	80	120	6.33	20
Total Xylenes		0.0769	0.00100	0.0696	0	110	80	120	5.20	20
Surr: 1,2-Dichloroethane-d4		184		200.0		92.0	72	119	0	0
Surr: 4-Bromofluorobenzene		195		200.0		97.3	76	119	0	0
Surr: Dibromofluoromethane		189		200.0		94.3	85	115	0	0
Surr: Toluene-d8		201		200.0		101	81	120	0	0

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

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

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

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

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

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

CONDITIONS

Action 201987

CONDITIONS

Operator:	OGRID:				
HF Sinclair Navajo Refining LLC	15694				
ATTN: GENERAL COUNSEL	Action Number:				
Dallas, TX 75201	201987				
	Action Type:				
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)				

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the Site Status Report 2022 for Hobbs Tank 5201 Release: Content Satisfactory 1. Continue air sparging as recommend and approved by the NMOCD. 2. Install Oxygen Release Socks in the same well as the one used for air sparging, HTRW-1 and in wells RW-1, HTRW-3 to increase biodegradation of TPH in area. 3. Continue to groundwater monitor and send 2023 report no later than April 1, 2024.	8/9/2023