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PUBLIC REVIEW DRAFT Remedial Investigation Report Addendum Boeing Field Chevron 10805 East Marginal Way South Tukwila, Washington 98168 Ecology Facility/Site No.: 2551 Agreed Order No.: DE-10947

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June 12, 2025 G-Logics Project 01-0410-S

Mr. Dale Myers Washington State Department of Ecology, NWRO 15700 Dayton Avenue North Shoreline, Washington 98133

Subject: PUBLIC REVIEW DRAFT Remedial Investigation Report Addendum Boeing Field Chevron 10805 East Marginal Way South Tukwila, Washington 98168

Dear Mr. Myers:

G-Logics prepared a Remedial Investigation Report Addendum for the Boeing Field Chevron Site located at 10805 East Marginal Way South, in Tukwila, Washington. This public review draft version of the document incorporates responses to Washington State Department of Ecology (Ecology) comments on the draft final report provided in an electronic mail from you dated April 22, 2025. We trust the information presented in this report meets your needs at this time. Should you require additional information or have any questions, please contact us at your convenience. Thank you again for this opportunity to be of service.

Sincerely,

G-Logics, an Atlas Geosciences NW Company

DRAFT

Mike Arnold, LG, LHG Director of Technical Services

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1.0 INTRODUCTION

The Remedial Investigation Report Addendum (RI Report Addendum) documents the results from a groundwater monitoring and sampling event performed at the Boeing Field Chevron property located at 10805 East Marginal Way South, Tukwila, Washington (Property) between March 27 and 29, 2024. The location of the Property is shown in Figure 1. This RI Report Addendum is supplemental to the *Remedial Investigation Report, Boeing Field Chevron, 10805 East Marginal Way South, Tukwila, Washington* 98168 (RI Report) prepared by G-Logics and dated October 7, 2020.

The Washington State Department of Ecology (Ecology) requested the groundwater monitoring and sampling event to update the nature and extent of petroleum hydrocarbons in groundwater and the groundwater hydraulics for the "Site." The "Site" refers to the areas of soil, groundwater, and soil gas that have been impacted with petroleum contaminants originating from the fuel storage and dispensing operations on the Property. G-Logics performed the groundwater monitoring and sampling following the *Final Groundwater Monitoring and Sampling Workplan, Boeing Field Chevron, 10805 East Marginal Way South, Tukwila, Washington 98168* (workplan), prepared by G-Logics and dated December 6, 2023, that was approved by Ecology.



2.0 BACKGROUND

Retail fuel dispensing operations have been conducted on, or adjacent to, the Property since at least 1941. During this period, the Property has been impacted by at least three separate releases of petroleum products. The first two of these consisted of an unquantified release of petroleum products associated with retail fuel dispensing operations prior to approximately 1984 and a minor release in 1996 of unspecified petroleum products discovered during the removal of an underground storage tank. The third, and most recent, release of gasoline product was associated with a fuel supply line leak discovered and reported to Ecology in 2003. Environmental investigation and remediation activities have been ongoing at the Site to address these releases since 1990.

The investigation and remediation activities at the Site completed prior to 2022 are summarized in the RI Report. An *in situ* chemical oxidation and total liquids removal pilot test was completed at the Property in 2022 and 2023, the results or which are included in the report titled *Revised Pilot Test Report, Boeing Field Chevron, 10805 East Marginal Way South, Tukwila, Washington 98186*, by G-Logics and dated August 13, 2024. Groundwater sampling at select wells was completed during the pilot test and results are described in that report and are included in this report.

The surficial geologic map for the area indicates that the surface of the Site is underlain by silt, sand, and gravel deposited within the Duwamish River valley (Troost et al. 2005). Soil borings on the Site generally encountered imported fill materials composed of a mixture of sand, silt, and gravel to approximately 9 feet below ground surface (bgs). Brown, medium-grained, silty sand, fine-to-medium-grained sand lenses, and thinly interbedded silt and sand are present beneath the fill to a depth of 9 to 12 feet bgs. Beneath this layer, silty clay was found to depths of approximately 12 to 18 feet bgs. Deep borings advanced at the Site recovered dark gray, poorly sorted to moderately sorted, medium to coarse sand with occasional silt from approximately 18 feet bgs to the maximum explored depth of 35 feet bgs.

Two separate water-bearing zones underlie the Site. These two zones are identified as an upper water-bearing zone primarily within sandy fill materials (Upper Saturated Zone) and a lower, semi-confined aquifer (Lower Saturated Zone) in sandy estuarine deposits. These two zones are separated by a silty confining layer representing the original pre-fill tidal estuary surficial deposits. Monitoring wells in both of these water-bearing zones were included in the monitoring program executed for this study as described in the next section.



The RI Report describes the following as contaminants of concern at the Site:

- Gasoline, diesel, and oil range organics (GRO, DRO, and ORO, respectively);
- Benzene, toluene, ethylbenzene, and xylenes (BTEX);
- Methyl tert-butyl ether; and
- Naphthalenes.

The RI report also indicates that GRO and benzene are appropriate indicator contaminants for the extent of petroleum hydrocarbons in soil and groundwater at the Site, as these components are present in conjunction with, and in a generally proportional concentration to, each of the other contaminants of concern, where detected.

3.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with the workplan, G-Logics performed a groundwater monitoring and sampling event at the Site on March 27, 28, and 29, 2024, that included:

- Measurement of the depth to groundwater and, where present, light nonaqueousphase liquid (LNAPL) at 20 monitoring wells:
 - Upper Saturated Zone wells IP-4, TW-2, TW-3, MW-18, MW-20, MW-23, MW-24, MW-25, MW-26S, MW-27S, and MW-28S; and
 - Lower Saturated Zone wells IP-5, IP-7, MW-19, MW-21, MW-24D, MW-27D, MW-28D, and MW-29D, and MW-30;
- Collection of groundwater samples from 19 monitoring wells (excluding well IP-7), during which groundwater parameters were measured during the groundwater purging completed at each well prior to sample collection;
- Collection of a sample of LNAPL accumulated in well IP-7;
- Submittal of the groundwater and LNAPL samples to an analytical laboratory for analysis of petroleum-related analytes as described in Section 3.3.

The locations of the monitoring wells are shown in Figure 2.



3.1 Depth to Groundwater and Light Nonaqueous Phase Liquid

On March 27, 2024, groundwater water levels were measured at each monitoring well during an ebbing tide in the nearby Duwamish Waterway between the hours of 8:54 a.m. and 12:37 p.m. Before performing water level measurements, each monitoring well cover was opened and the well caps were removed to allow the static liquid level in the well casings to equilibrate with the ambient atmospheric pressure. The groundwater level and thickness of LNAPL, where present, were measured at each well on the Property using an oil/water interface probe. Groundwater levels in monitoring wells located in the Tukwila International Boulevard (TIB) right-of-way were measured using an electronic water level indicator. The depth to groundwater and LNAPL, where present, were measured in each of the monitoring wells to the nearest 0.01 foot below an established measurement point on the casing rim of each monitoring well.

3.2 Well Development and Sample Collection

Prior to collection of the groundwater sample at each monitoring well, groundwater was purged from the well using a peristaltic pump with dedicated disposable tubing. The pump tubing intake was located near the midpoint of the screened section of each well; if the water level in the well was lower than the midpoint, the intake was located approximately 1 foot below the groundwater surface. During purging, groundwater quality parameters, including temperature, pH, specific conductivity, turbidity, temperature, oxidation-reduction potential (ORP), and dissolved oxygen (DO), were measured using a vendor-calibrated water quality meter and a flow-through cell attached to the peristaltic pump discharge tubing. Purging at a given well was considered complete when three consecutive readings for the measured parameters were observed within 10 percent of one another or a minimum of three well casing water volumes was purged from the well. Alternately, if a well was purged dry, purging was considered complete once the monitoring well had been purged dry twice.

After groundwater purging was confirmed complete, each groundwater sample was collected into laboratory-prepared sample containers directly from the discharge from the peristaltic pump tubing. The flow-through cell used for groundwater parameter measurement was removed from the discharge tubing prior to sample collection.



3.3 Sample Analysis

The groundwater and LNAPL samples were transported to OnSite Environmental Inc., an Ecology-accredited laboratory, in Redmond, Washington, for analysis of the following.

Groundwater Samples

- Gasoline range organics (GRO) by Ecology Method NWTPH-Gx;
- Diesel range organics (DRO) and oil range organics (ORO) by Ecology Method NWTPH-Dx;
- For the groundwater samples from wells MW-24 and MW-30, DRO and ORO by Ecology Method NWTPH-Dx with silica gel cleanup; and
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by United States Environmental Protection Agency (USEPA) Method 8021B.

LNAPL Sample

- GRO by Ecology Method NWTPH-Gx;
- DRO and ORO by Ecology Method NWTPH-Dx; and
- BTEX, methyl tert-butyl ether (MTBE), 1,2-dibromoethane (EDB), and 1,2-dichloroethane (EDC) by USEPA Method 8260D.

Samples were transported to the analytical laboratory in coolers with ice under strict chain of custody procedures.



4.0 DEVIATIONS FROM THE WORKPLAN

The scope and procedures described in the workplan were followed during this investigation. However, additional scope not included in the workplan was completed during the monitoring effort. During the implementation of the groundwater monitoring and sampling event, monitoring wells MW-24 and MW-30 were analyzed for DRO and ORO by Ecology Method NWTPH-Dx using silica gel cleanup in conjunction with the analysis of samples from those wells for DRO and ORO without silica gel cleanup as specified in the workplan. Groundwater in well MW-30 exhibited an orange color and although field personnel verbally reported evidence of the presence of dark-colored solid fragments of organic matter during the purging of groundwater from well MW-24, a description of the solid organic matter observed in groundwater from that include observations and measurements of groundwater conditions are included in Appendix A. The purpose of the DRO and ORO analyses with silica gel cleanup was to evaluate whether analytical results for the samples may be biased by the presence of petroleum degradation products or naturally occurring organic matter in the groundwater samples.

During the development of this report, proposed cleanup levels described in the RI Report did not include specific establishment of proposed cleanup levels for the volatile organic compounds EDB, EDC, hexane, methyl tert-butyl ether, and xylenes. G-Logics proposed use of the following cleanup levels for these compounds in groundwater, selected consistently with the RI Report cleanup level screening process:

- EDB: 0.01 micrograms per liter (μg/L), the MTCA Method A Groundwater Cleanup Level;
- EDC: 5 µg/L, the MTCA Method A Groundwater Cleanup Level;
- Hexane: 480 µg/L, the most stringent MTCA Method B groundwater cleanup level;
- Methyl tert-butyl ether: 20 μ g/L, the MTCA Method A Groundwater Cleanup Level; and
- Xylenes: 106 µg/L, the Aquatic Life Protective Value for Marine Water from Ecology Implementation Memorandum #23.



The proposed groundwater cleanup levels established in the RI Report and above are collectively referred to hereinafter in this report as "RI Cleanup Levels,"



5.0 **RESULTS**

A discussion of groundwater elevations and flow conditions at the Site on March 27, 2024, field parameters and observations, and groundwater sample results is presented below.

5.1 Groundwater Surface and Flow Conditions

A summary of groundwater and LNAPL level measurements and calculations of groundwater potentiometric surface elevations at the Site wells are included in Table 1.

5.1.1 Upper Saturated Zone

Groundwater elevations and associated potentiometric surface contours for groundwater in the Upper Saturated Zone are shown in Figure 3. The groundwater elevations in the Upper Saturated Zone ranged from 5.59 to 12.71 feet above mean sea level based on the North American Vertical Datum of 1988 (NAVD88). The groundwater elevation at IP-4 was not used to determine the groundwater flow direction because the measured depth of groundwater appeared to be anomalously high as compared to previous events and to the water levels in the surrounding wells.

Based on the groundwater elevation contours shown in Figure 3, the primary groundwater flow direction in the Upper Saturated Zone at the Property and the TIB right-of-way is north to northwest, with gradients of approximately 0.024 to 0.056, respectively. East of the fueling dispensers on the Property, the Upper Saturated Zone groundwater flows toward the east with a gradient of approximately 0.016. This groundwater flow condition from an apparent groundwater high on the Property has been observed in previous groundwater monitoring events. The apex of this groundwater divide is in the vicinity of the gasoline-related contaminants in groundwater at the Site, and conditions suggest that dissolved-phase contamination from the gasoline release area is migrating both easterly and westerly on either side of this groundwater divide. The distribution of groundwater geochemical conditions and dissolved-phase petroleum contaminants in groundwater at the Site described below in Sections 5.2 and 5.3.1, respectively, are consistent with this interpretation.

Although the silty confining layer between the Upper and Lower Saturated Zones is consistently observed in the borings completed through that depth interval at the Site, the observed variability in thickness of the confining layer suggests that there may be areas where the confining layer thickness is very thin or absent. This interpretation is consistent with that



described in the RI Report and in earlier site characterization reports. The presence of LNAPL and dissolved-phase petroleum hydrocarbons in the Lower Saturated Zone suggest a somewhat direct hydraulic connection with the Upper Saturated Zone in the vicinity of the gasoline release.

5.1.2 Lower Saturated Zone

Groundwater elevations and associated potentiometric surface contours for groundwater in the Lower Saturated Zone are shown in Figure 4. The groundwater elevations in the Lower Saturated Zone ranged from 4.79 to 8.97 feet above mean sea level based on the NAVD88. To calculate the actual groundwater elevation at monitoring well IP-7 where 0.98 feet of LNAPL was measured, the thickness of the LNAPL was multiplied by its specific gravity reported in the RI Report of 0.739, and the result subtracted from the depth to groundwater. That sum was subtracted from the elevation of the top of the monitoring well casing to provide the actual groundwater elevation indicated in Table 1.

Based on the groundwater elevation contours shown in Figure 4, the groundwater flow direction in the Lower Saturated Zone at the Property and the TIB right-of-way is toward the west-northwest with an approximate gradient of 0.030. At the Duwamish River, the groundwater flows east to southeast toward the TIB right-of-way median and east side of TIB with approximate gradients ranging from 0.017 to 0.075. The two opposing flow conditions in the Lower Saturated Zone may indicate that the hydraulic pressure wave from the earlier high tide was not fully dissipated when groundwater levels were measured.

5.1.3 Vertical Gradients

Downward vertical gradients from the Upper Saturated Zone to the Lower Saturated Zone were calculated from groundwater level measurements at well pairs MW-27S/MW-27D and MW-28S/MW-28D at 0.66 and 0.88, respectively. The downward vertical gradient is consistent with the observed distribution of LNAPL and dissolved-phase petroleum hydrocarbons in the Lower Saturated Zone sourced from a release to the Upper Saturated Zone and locally transmitted through an aperture in the confining layer as described in Section 5.1.1.



5.2 Groundwater Parameters

Table 2 presents the results for groundwater parameters measured in the field during the March 2024 groundwater sampling event and from previous monitoring events since 2022. A review of the 2024 parameter measurements shows that DO and ORP measurements are consistent with slightly to moderately oxidizing water upgradient and cross-gradient from the Site in both saturated zones while the groundwater within and downgradient of the Site in both zones exhibits slightly to moderately reducing conditions. Measurements also indicate that specific conductivity within the areas of decreased DO and ORP are higher than the surrounding areas as well. The ORP measurements for groundwater in the Upper and Lower Saturated Zones shown in Figures 5 and 6 illustrate this geochemical distribution observed at the Site. Within and downgradient of the area of petroleum contamination in groundwater in both zones, dissolved oxygen is generally depleted and specific conductivity is increased relative to the surrounding groundwater. This pattern of depletion of dissolved oxygen and oxidizing ions with an increase in specific conductivity is associated with biologic degradation of petroleum compounds in groundwater.

Measurements of temperature and pH of groundwater at the Site do not exhibit discernable trends temporally or spatially that indicate those component parameters are affecting or are affected by the petroleum hydrocarbons in groundwater. Note that even with appropriate factory and field calibration and equipment deployment techniques, field groundwater parameter measurements typically include large uncertainties in precision and accuracy. As such, the conditions described based on these measurements should be considered along with the entire body of groundwater quality data and relevant information regarding groundwater conditions.

5.3 Petroleum Hydrocarbons in Groundwater

Groundwater sample analytical results are presented in Table 3 and the distribution of petroleum hydrocarbons in groundwater in both saturated zones at the Site are shown in Figures 7 through 12. The analytical laboratory data report for the March 2024 groundwater and LNAPL samples is included in Appendix B.

5.3.1 Upper Saturated Zone Groundwater

During the March 2024 groundwater monitoring event, petroleum components detected in one or more of the Upper Saturated Zone wells include GRO, DRO, ORO, and BTEX. Each



of these analytes was detected at a concentration greater than the respective RI Cleanup Levels in at least one Upper Saturated Zone well. The extent of GRO and benzene in Upper Saturated Zone groundwater are shown in plan view on Figures 7 and 8, respectively. Cross sectional views of the distribution of GRO in Upper Saturated Zone groundwater relative to the associated hydrogeological conditions are included in Figures 9 and 10.

Except for benzene, petroleum hydrocarbons detected at concentrations greater than the respective RI Cleanup Levels in the Upper Saturated Zone in March 2024 are limited to the Property within the immediate vicinity of the 2003 gasoline release, except for the combined DRO and ORO concentration greater than the applicable cleanup level at well MW-24 (Table 3), which is interpreted as related to degradation products from the gasoline release. This distribution pattern is consistent with the distribution of petroleum components in groundwater observed during groundwater monitoring activities through 2018 as described in the RI Report and suggests that the current area of dissolved-phase petroleum in the Upper Saturated Zone is similar to the distribution indicated in the RI Report.

Field personnel verbally reported evidence of the presence of dark-colored solid fragments of organic matter during the purging of groundwater from well MW-24. However, a description of the solid organic matter observed in groundwater from well MW-24 is not included in the field record. The analytical results for the groundwater sample collected from MW-24 indicate that DRO and ORO were detected at concentrations less than their MTCA Method A Groundwater Cleanup Levels but at a combined concentration that is greater than the applicable cleanup level. The chromatogram for that sample exhibits a pattern that is consistent with the presence of weathered petroleum product in the sample. Additionally, the groundwater sample from that well analyzed after silica gel cleanup resulted in no detectable petroleum, further supporting a conclusion that the DRO and ORO in the original sample are related to degradation of the petroleum release.

5.3.2 Lower Saturated Zone Groundwater

During the March 2024 groundwater monitoring event, petroleum components detected in one or more of the Lower Saturated Zone wells include GRO, DRO, ORO, and BTEX. Each of these analytes was detected at a concentration greater than the respective RI Cleanup Levels in at least one Lower Saturated Zone well. The extent of GRO and benzene in Upper Saturated Zone groundwater are shown in plan view on Figures 11 and 12. LNAPL is also present at well IW-7 as discussed in more detail in Section 5.3.3, the extent of which is also



shown on those figures. Cross sectional views of the distribution of GRO and LNAPL in Lower Saturated Zone groundwater relative to the associated hydrogeological conditions are included in Figures 9 and 10.

With two exceptions, petroleum hydrocarbons detected at concentrations greater than the respective RI Cleanup Levels in the Lower Saturated Zone in March 2024 are limited to the Property within the immediate vicinity of the initial gasoline release. This distribution pattern is within the area of distribution of petroleum components in groundwater observed during groundwater monitoring activities through 2018 as described in the RI Report and suggests that the current area of dissolved-phase petroleum in the Lower Saturated Zone is similar or smaller than the distribution indicated in the RI Report.

The sample results representing the exceptions to the distribution of petroleum hydrocarbons in groundwater described above are from wells MW-21 and MW-28D, each of which are cross-gradient from the gasoline release area. Combined DRO and ORO were detected in groundwater from these wells at concentrations of 570 and 1,100 μ g/L, respectively. The chromatograms for both samples show a defined peak in the ORO range and a subdued shoulder extending into the DRO range, indicative of either a weathered mixture of DRO and ORO products, or a bunker C product. Although groundwater at well MW-21 has a discontinuous history of detections of both DRO and ORO at concentrations less than the MTCA Method A Groundwater Cleanup Level, DRO and ORO have not historically been detected in groundwater at well MW-28D.

Groundwater in well MW-30 exhibited an orange color during purging, and this observation resulted in analysis of DRO and ORO in the groundwater sample from this well with and without silica gel cleanup. The analytical results for the groundwater sample from well MW-30 indicate that DRO and ORO were not detected with or without silica gel cleanup.

5.3.3 Light Nonaqueous-Phase Liquid

The LNAPL sample collected in March 2024 from monitoring well IP-7 contained GRO and BTEX at concentrations indicative of a gasoline-based petroleum product. DRO and ORO were not detected in the LNAPL sample; however, the detection limits for these analytes were elevated because of the high concentration of GRO in the sample. MTBE, EDB, and EDC were not detected in the LNAPL sample. The detected analytes are consistent with a gasoline release that occurred after the mid- to late-2000s, after the historical cessation of the addition of MTBE, EDB, and EDC to most petroleum fuels. The chromatogram pattern



exhibited for the GRO analysis suggests the sample represents a weathered gasoline product. LNAPL analytical results are included in Appendix B.



6.0 DATA VALIDATION

G-Logics performed a data validation evaluation for the laboratory analytical results for the samples collected in March 2024. The evaluation was performed to verify the usability of the laboratory analytical results to meet standard project data quality objectives based on reported conditions and results for sample holding times, preservation, field duplicates, and laboratory method blanks, blank spikes, blank spike duplicates, and surrogate recoveries. Relevant data qualifiers developed based on this evaluation, and from evaluation completed for past analytical result reports are included with the sample analytical data in Table 3. The laboratory report including relevant quality assurance/quality control results for the samples collected in March 2024 is included in Appendix B.

6.1 Holding Time and Preservation

For Ecology Methods NWTPH-Gx and NWTPH-Dx and USEPA Methods 8021B and 8260D, all groundwater samples analyzed met the holding times for extraction and analysis from the date of sample collection. The groundwater samples analyzed by NWTPH-Gx and 8021B were preserved according to the analytical method specifications. The samples were maintained in the laboratory at a temperature of 2 to 6 degrees Celsius.

6.2 Field Duplicates

Field duplicate sample results were within established limits of variability relative to the original samples, except for the ORO result from the Ecology Method NWTPH-Dx analysis for the original and duplicate samples collected from well IP-5. The relative percent difference of the ORO results between the samples was 68%, which is outside the established criteria for duplicate results. The exception is attributed to interference from a high concentration of GRO in the sample. Other quality assurance/quality control data related to this sample were within established limits. As a result of the conditions identified, the DRO and ORO results for the groundwater sample from well IP-5 are flagged as estimated in Table 3.

6.3 Laboratory Method Spikes and Method Spike Duplicates

Spike compounds were also detected at concentrations within established range limits relative to the spike concentrations added, and the spike duplicates results were within established range limits relative to the concentrations detected in the method spike samples.



6.4 Laboratory Method Blanks, Blank Spikes, and Blank Spike Duplicates

Analytes were not detected in the laboratory method blanks, and recovery of spike compounds in blank spikes and blank spike duplicates were within established range limits. Spike compounds were also detected at concentrations within established range limits relative to the spike concentrations added.

6.5 Surrogate Recoveries

Surrogate recoveries for each sample analysis met the laboratory acceptance criteria with two exceptions:

- Surrogate compounds were not recovered at detectable concentrations for the GRO, DRO, and ORO analysis by Ecology Methods NWTPH-Gx and NWTPH-Dx for the LNAPL sample collected from well IP-7 on March 27, 2024, because of the dilution of the sample extract necessary for analysis of the high concentrations of target analytes in the sample. The remainder of data quality assurance/quality control results for this sample were within established limits.
- The surrogate recovery for the field duplicate sample collected from monitoring well IP-5 for the analysis of GRO and BTEX by Ecology Method NWTPH-Gx and USEPA Method 8021B was greater than the established control limits. No explanation for the high surrogate recovery was reported by the laboratory. Since the sample was a field duplicate and not a primary characterization sample and the remainder of the quality assurance/quality control data for the sample were within established ranges, no data qualifiers were established on Table 3 related to this sample.

6.6 Data Validation Conclusions

Based on our review of the analytical data report for the samples submitted for the RI Addendum monitoring effort, the sample results are suitable for their intended use for Site characterization and MTCA compliance evaluation. Where results of the data validation suggest data quality may be compromised within reasonable limits, the affected data have been flagged with qualifiers on Table 3. None of the analytical data developed for this report have been rejected.



7.0 CONCLUSIONS

Groundwater flow conditions in the Upper and Lower Saturated Zones are consistent with conditions observed during previous monitoring events at the Site as described in the RI Report. The petroleum-related contaminants present and the distribution of those petroleum-related contaminants at the Site is consistent with a subgrade gasoline release in about 2003 from product delivery infrastructure near the pump islands at the Property. Evidence has not been identified that indicate that the gasoline release at the Property has or is affecting surface water quality in the Duwamish River.

The distribution of LNAPL has been observed during the most recent monitoring event in March 2024, and monitoring events related to the pilot test completed in 2022 and 2023, and is limited to the vicinity of monitoring well IP-7 in the Lower Saturated Zone. G-Logics has not identified evidence of LNAPL accumulation in the Upper Saturated Zone. Based on the observations of persistent presence of LNAPL at well IP-7 over the last several years, LNAPL has been added to the original list of contaminants of concern at the Site included in the RI Report. The addition of LNAPL to the list of contaminants of concern has been completed in anticipation of the development of the feasibility study, as the remedial alternatives to address LNAPL are somewhat different than those designed to address residual and dissolved petroleum components in soil and groundwater.

Dissolved-phase petroleum components in the Upper and Lower Saturated Zones are consistent with the range of conditions reported in the RI Report and indicate that the extents of petroleum-related groundwater impacts greater than applicable RI Cleanup Levels in both zones are relatively stable over time. Apparent variations in the extent of petroleum in groundwater between this and previous reports appear to be affected by two factors: 1) spatial and temporal variations in relatively low concentrations of benzene and petroleum degradation products in groundwater in patterns similar to distribution variation exhibited by groundwater quality data from prior to 2024, and 2) limitations to the interpretation of results based on the focused well set sampled during the 2024 monitoring program as compared to past evaluations that included monitoring across a larger proportion of the available wells.

Geochemical parameters measured in groundwater, including DO, ORP, and specific conductivity, suggest that the dissolved-phase petroleum constituents in Upper and Lower Saturated Zone groundwater are likely undergoing degradation by biologic processes. The apparent reduction in concentrations of dissolved-phase petroleum hydrocarbons across



relatively short distances from the release source area and accumulated LNAPL area is consistent with evidence of robust biodegradation within the plume.

The DRO and/or ORO detected in March 2024 in the Upper Saturated Zone wells MW-20 and MW-24 are consistent with common spatially and temporally scattered DRO/ORO detected in groundwater from wells across the Site in this and previous monitoring events. Many of these DRO/ORO detections, including the most recent one at well MW-24, are not clearly associated with the gasoline release at the Site. The elimination of the DRO and ORO as part of silica gel cleanup suggests that the DRO and ORO detected in the groundwater from that well are consistent with highly-weathered petroleum products As a worst-case scenario, the DRO and ORO detected in March 2024 at wells MW-20 and MW-24 represent the current downgradient limit in the Upper Saturated Zone of detectable petroleum hydrocarbons released at the Property. This is evidenced by the low concentrations of petroleum hydrocarbons detected at these wells through time and the temporal and spatial inconsistency of those detections. Additional evaluation may be needed during future groundwater monitoring events to confirm whether the DRO and ORO detections at wells MW-20 and MW-24 represent naturally occurring organics or weathered petroleum products.

DRO and ORO in the Lower Saturated Zone at wells MW-21 and MW-28D represent groundwater that is not directly downgradient from the area of petroleum release and distribution at the Site and groundwater quality data from monitoring wells MW-19 and MW-24D indicate that these detections are separated from the area of gasoline-related contamination that defines the Site. The source of the DRO and ORO detections cannot be confirmed based on the existing data set, and evaluation of distribution and potential source of these detections using the current data set is somewhat confounded by the temporally and spatially separated detections of DRO and ORO that are common in the groundwater monitoring history of the Lower Saturated Zone at the Site. Additional evaluation is needed during future groundwater monitoring events to confirm whether the DRO and ORO detections at wells MW-21 and MW-28D represent this pattern of scattered anomalous DRO/ORO detections in the Lower Saturated Zone, or whether they represent naturally occurring organics and/or the distal, weathered edges of a petroleum product release. However, the data gap that may be represented by these detections does not represent an issue that could significantly affect the development of a feasibility study for the gasoline release at the Site, in the opinion of G-Logics.



With the exception of the recommended addition of LNAPL as a contaminant of concern, it is the opinion of G-Logics that the findings outlined in this report help refine but do not significantly change the findings and interpretations in the RI Report. It is the opinion of G-Logics that with this submittal, the RI for the Site is complete and the RI information is appropriate to support the development of a feasibility study for the Site.



8.0 LIMITATIONS

The scope of work on this project was presented in the workplan for this investigation and subsequently approved by RPNP Corporation and Ecology. Other activities not specifically included in the presented scope of work in the workplan, correspondence, or this report are excluded and are therefore not part of our services.

Land use, site conditions (both on-Site and off-Site), and other factors will change over time. Since site activities and regulations beyond our control could change at any time after the completion of this report, our observations, findings, and opinions can be considered valid only as of the date groundwater and sampling event performed at the Site in March 2024.

The property owner is solely responsible for notifying all governmental agencies and the public at large of the existence, release, treatment, or disposal of any hazardous materials identified at the project site. G-Logics assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury which results from pre-existing hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials.

This report has been prepared for the sole use of our client and Ecology. The scope of services performed during this exploration may not be appropriate for the needs of other parties. Reuse of this document or the findings, conclusions, or recommendations presented herein, are at the sole risk of said party(ies). Our client and regulatory agencies may also make additional copies of this document for their internal and public use, or as required by law. All other users of this document must acknowledge our copyright and indicate that permission to use has been received from G-Logics and our Client. Any party other than our client who would like to use this report shall notify G-Logics of such intended use by executing the "Permission and Conditions for Use and Copying" contained in this document. Based on the intended use of the report, G-Logics may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements will release G-Logics from any liability resulting from the use of this report by any unauthorized party.



9.0 **REFERENCES**

- G-Logics. 2020. Remedial Investigation Report, Boeing Field Chevron, 10805 East Marginal Way South, Tukwila, Washington 98168. October 7.
- G-Logics. 2023. Final Groundwater Monitoring and Sampling Workplan, Boeing Field Chevron, 10805 East Marginal Way South, Tukwila, Washington 98168. December 6.
- G-Logics. 2024. Pilot Test Report, Boeing Field Chevron, 10805 East Marginal Way South, Tukwila, Washington 98168. August 13.
- Troost, K.G., D.B. Booth, A.P. Wisher, and S.A. Shimel. 2005. *The Geologic Map of Seattle—a Progress Report*. USGS Open-File Report 2005-1252.
- Washington State Department of Ecology. 2004. Implementation Memorandum #4-Determining Compliance with Method A Cleanup Levels for Diesel and Heavy Oil. June 17.

FIGURES

TABLES

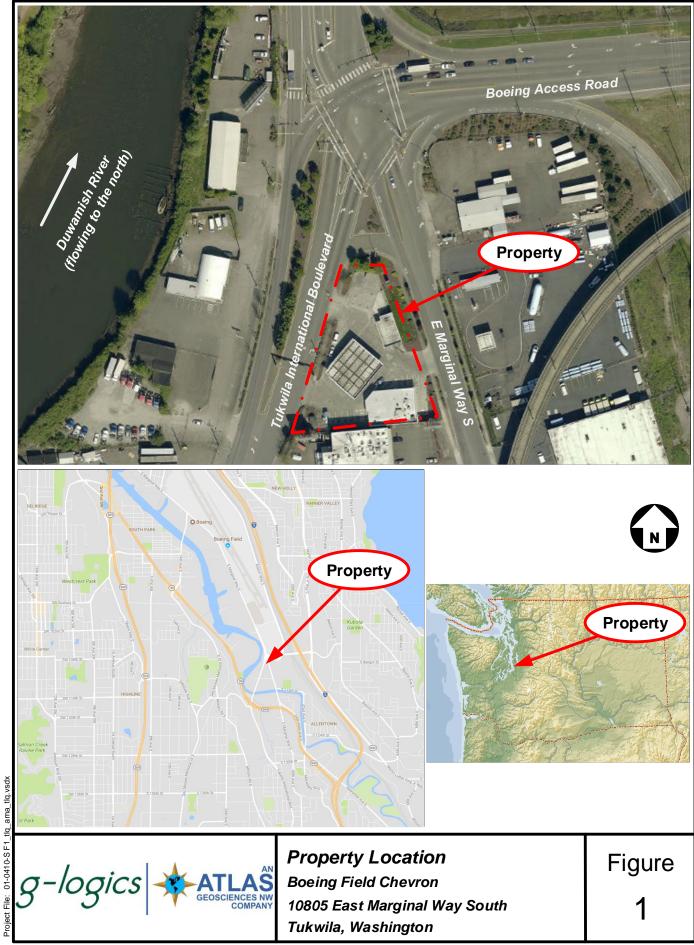
APPENDIX A

MARCH 2024 GROUNDWATER MONITORING DATA FORMS

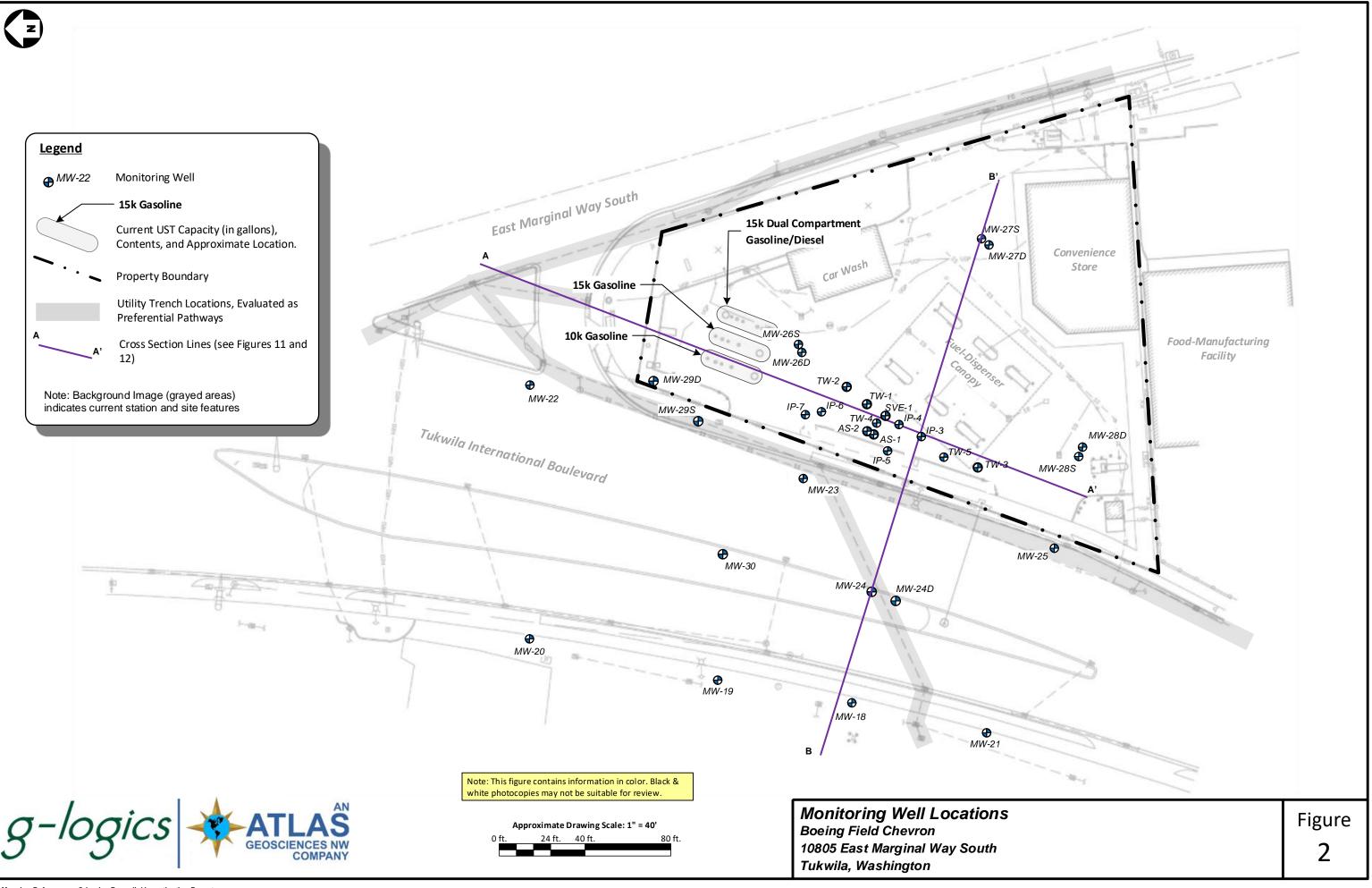
APPENDIX B

ANALYTICAL LABORATORY REPORTS

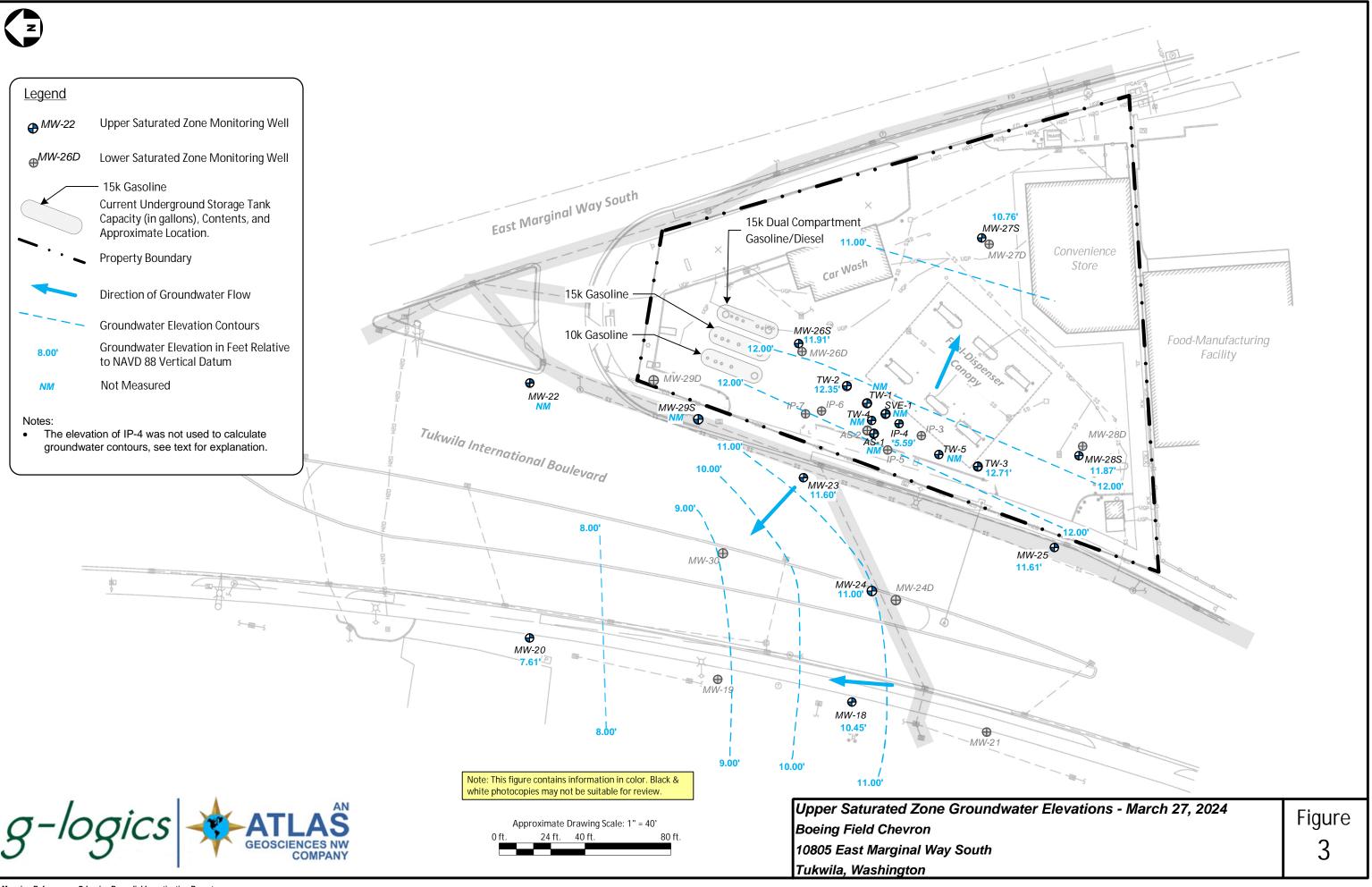
FIGURES

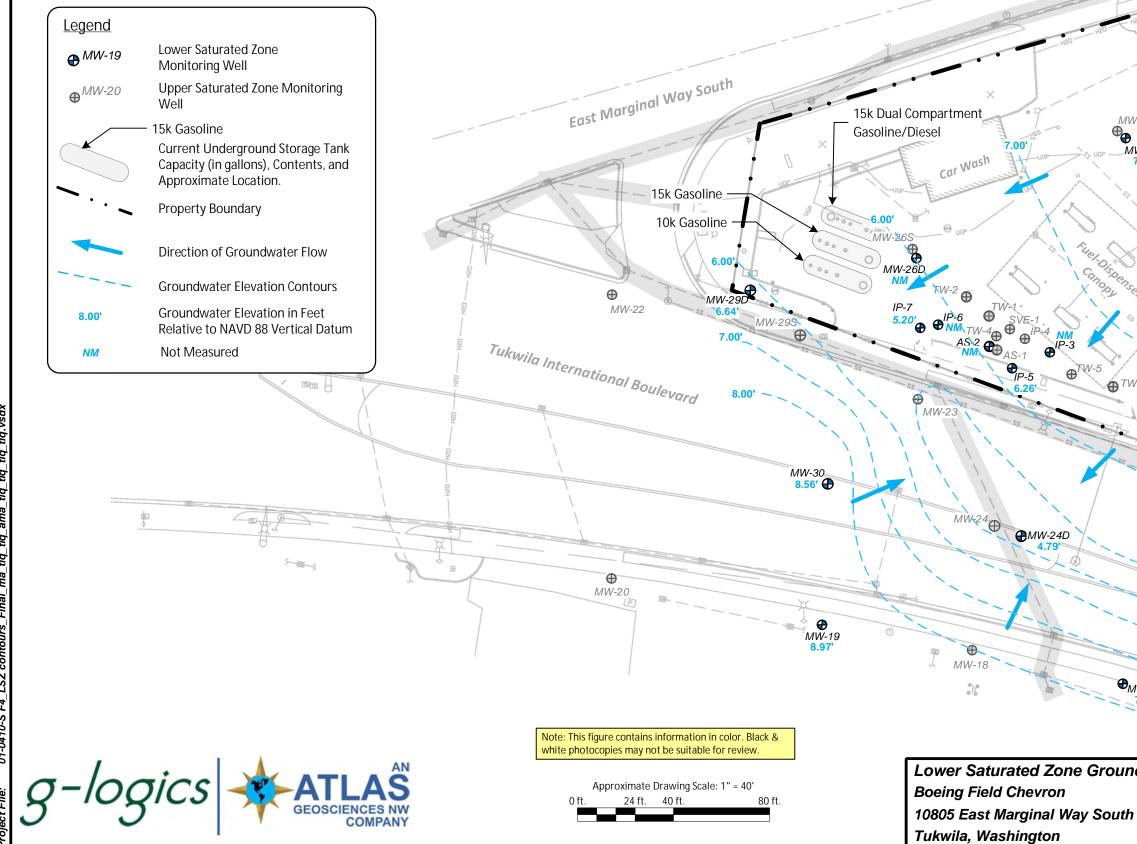


Mapping Reference: Delorme, King County iMap, and Google Maps

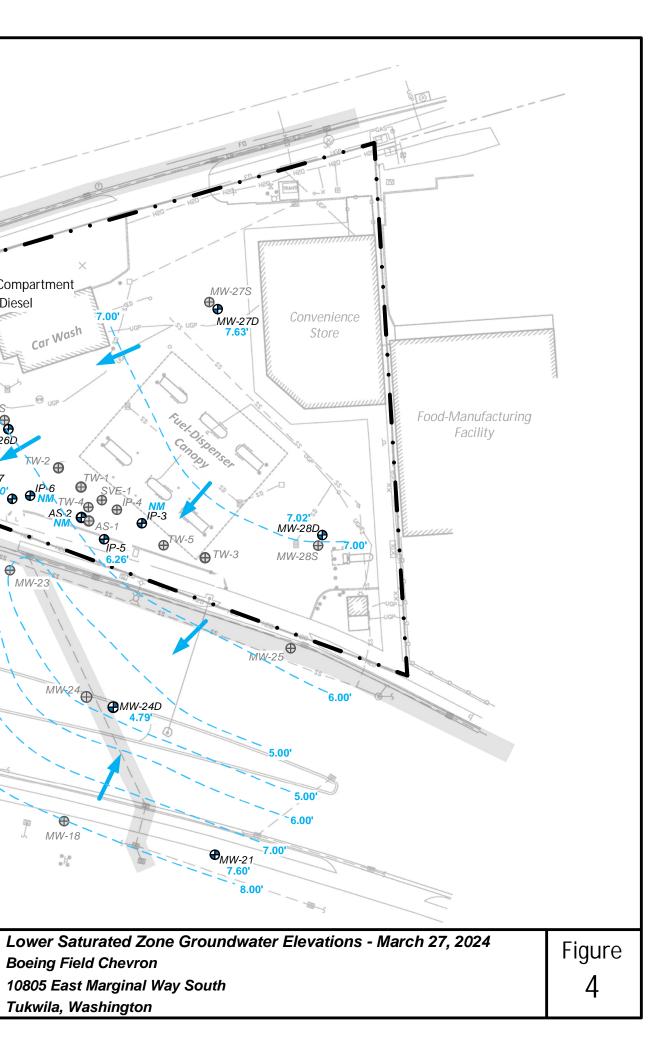








Mapping References: G-Logics Remedial Investigation Report.



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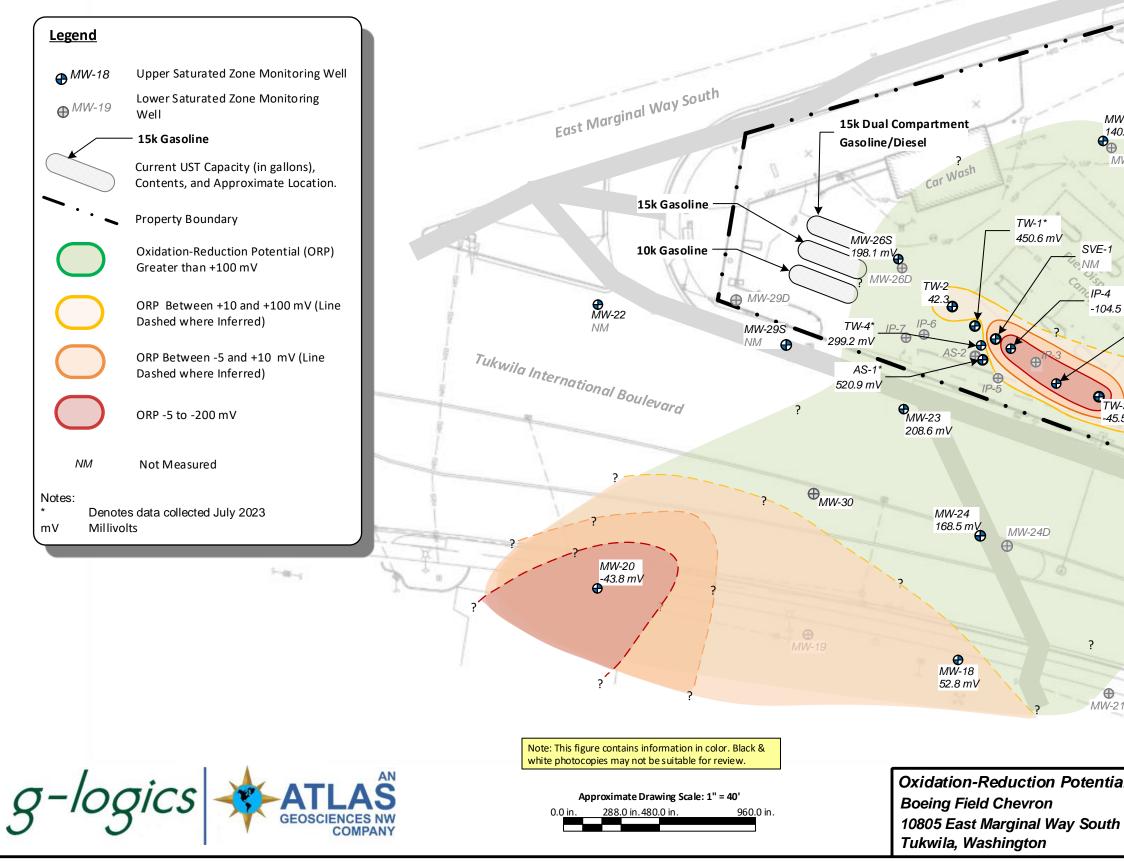
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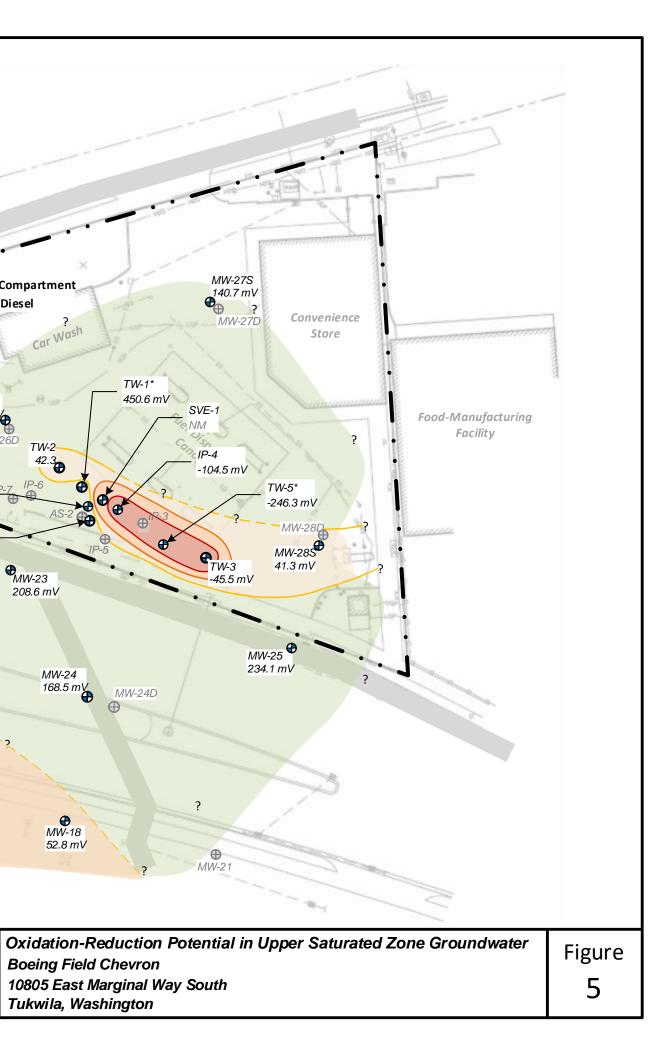
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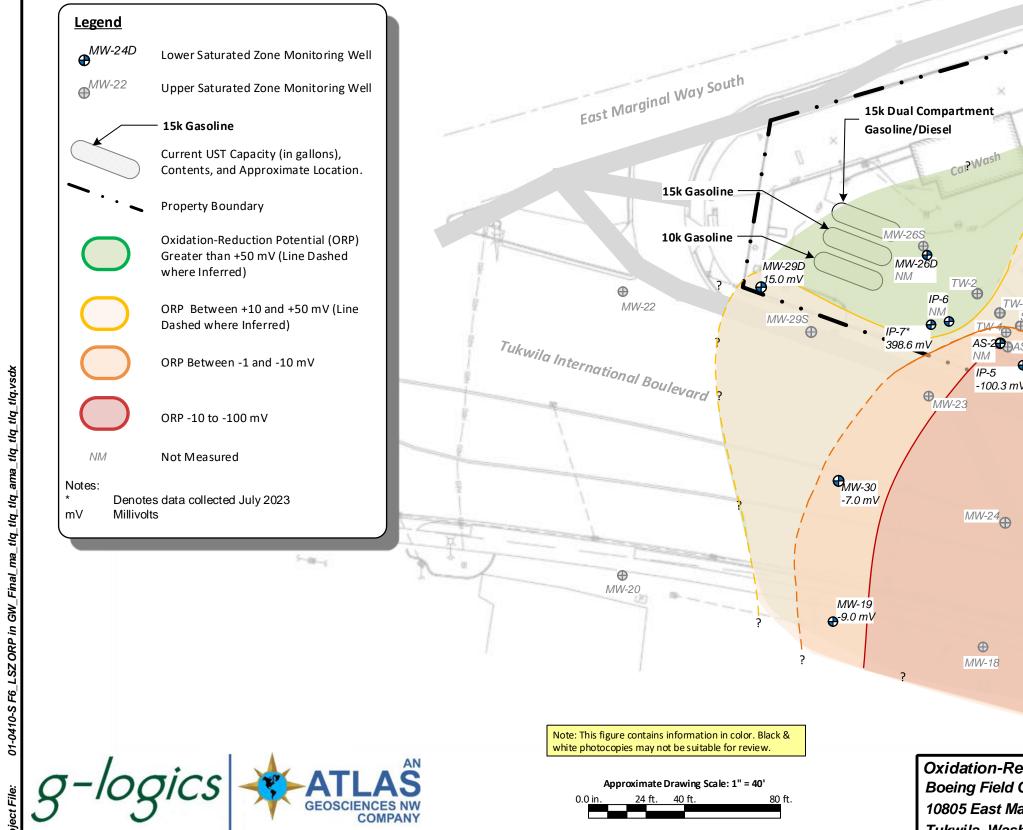




IP-4

?

Ð MW-2



Boeing Field Chevron 10805 East Marginal Way South Tukwila, Washington

TW-

P-4 IP-3*

MW-24D -75.0 mV ╋

237.2 mV

W-5 Ð

MW-21

-63.7 mV

Ð

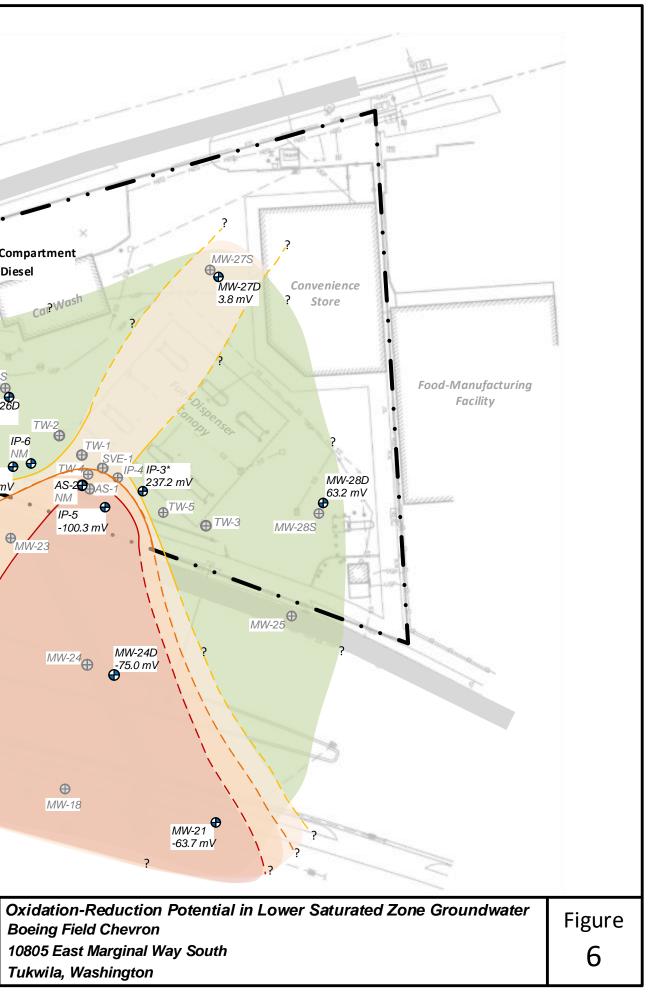
AS-2

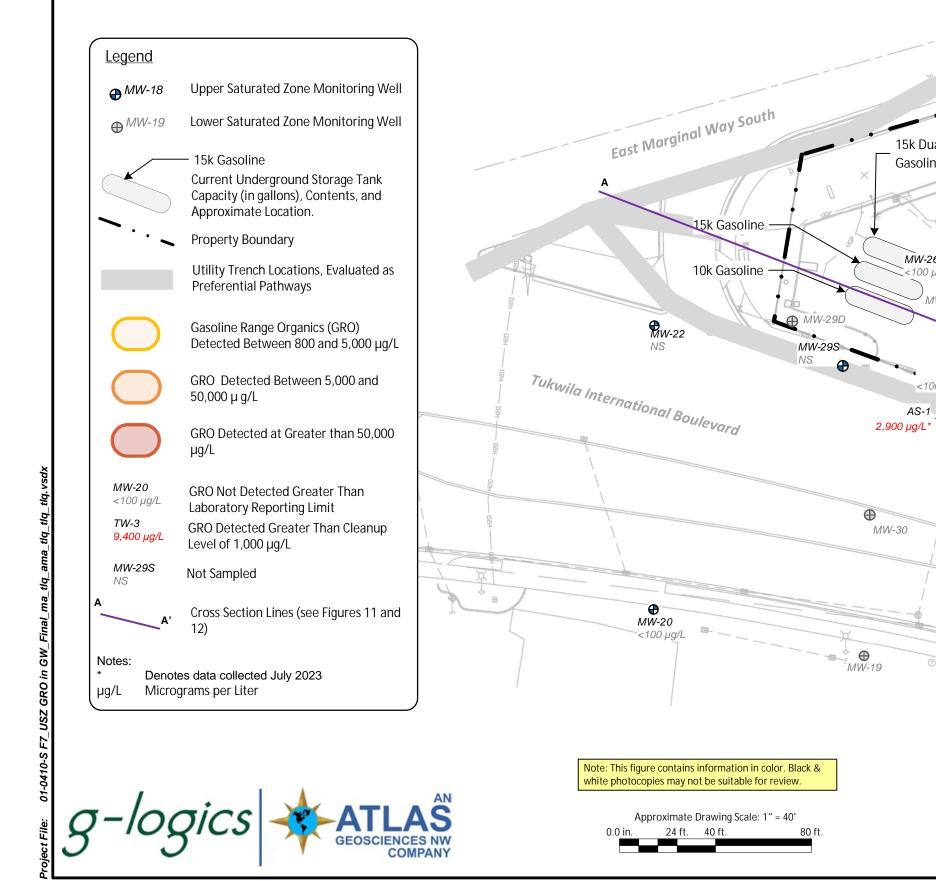
-100.3 mV

NM

IP-5

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Boeing Field Chevron 10805 East Marginal Way South Tukwila, Washington

15k Dual Compartment

Car Wash

<100 µg/L • TW-1

<100 µg/L

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MW-24D

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P

SVE-1

TW-3

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MW-21

O,NS

Gasoline/Diesel

MW-26S

100 µg/L MW-26D

<100 µg/L

MW-24 🔂

⊕ MW-18

0-10 0-0

в

<100 µg/L

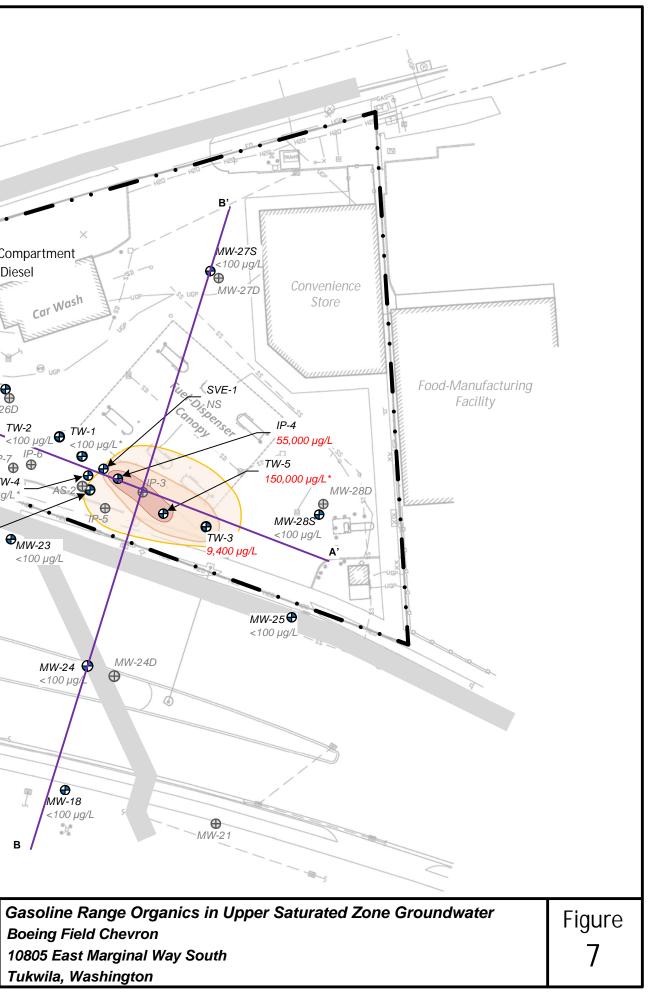
<100 µg/

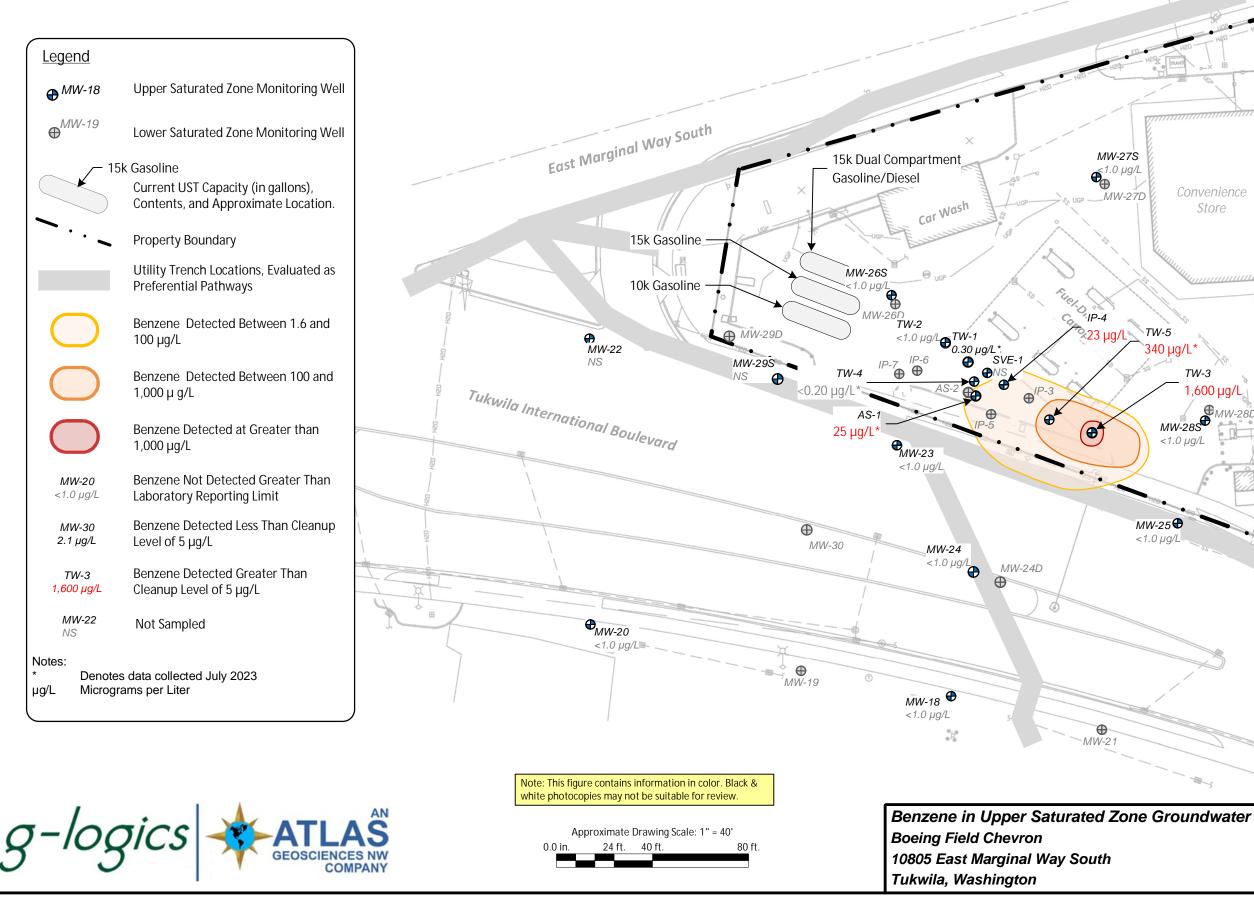
TW-4

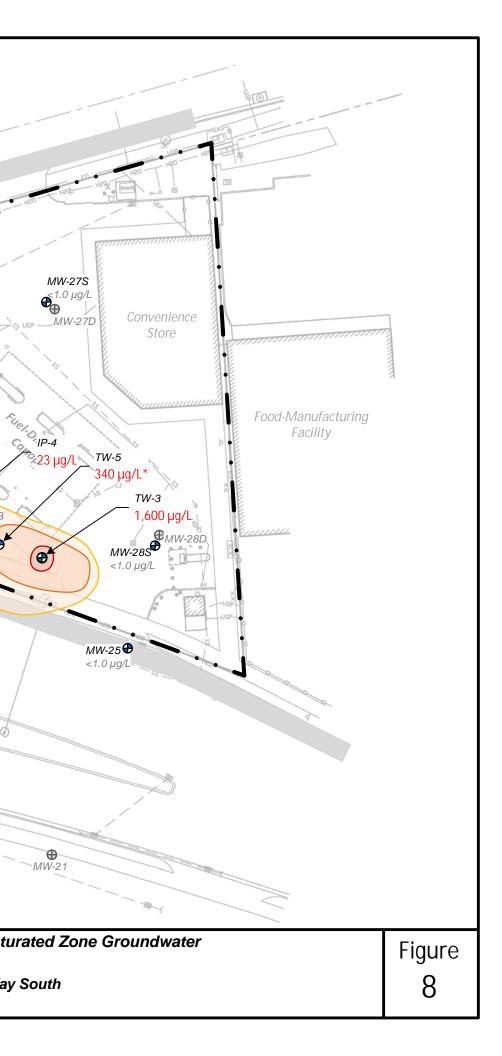
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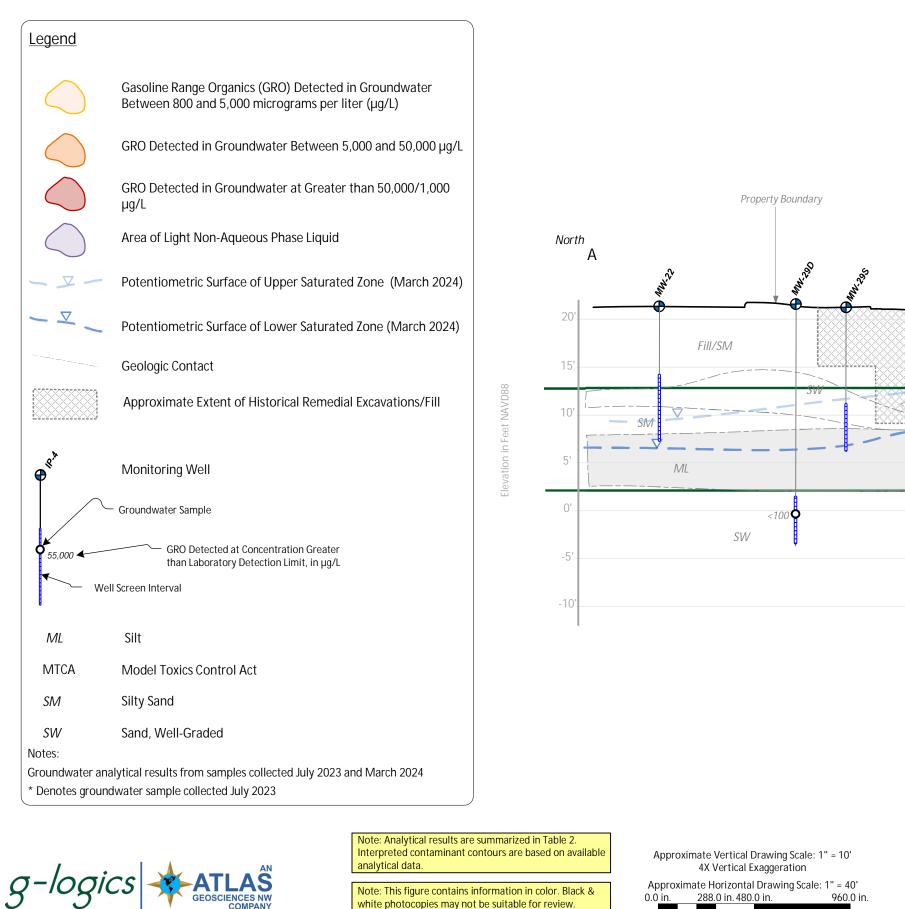
AS-1

Mapping References: G-Logics Remedial Investigation Report.









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SN

054,000

Boeing Field Chevron 10805 East Marginal Way South Tukwila, Washington

Pump Canopy

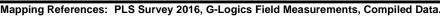
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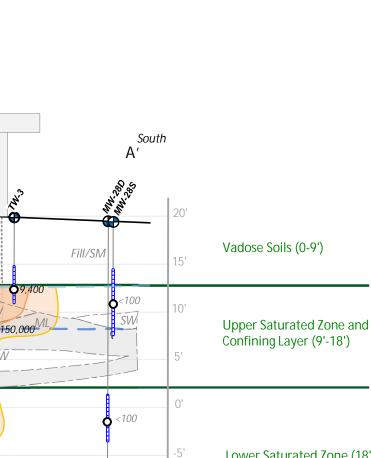
020,000

17,000

SW

SW





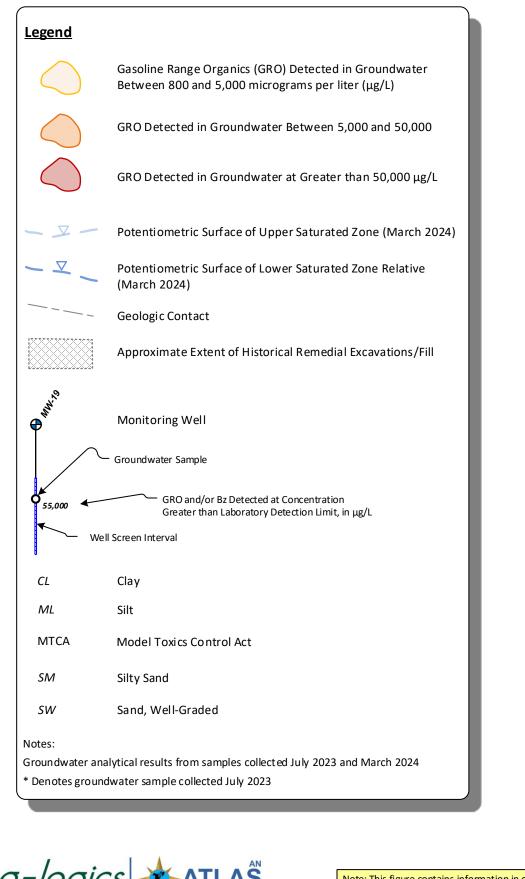
-10'

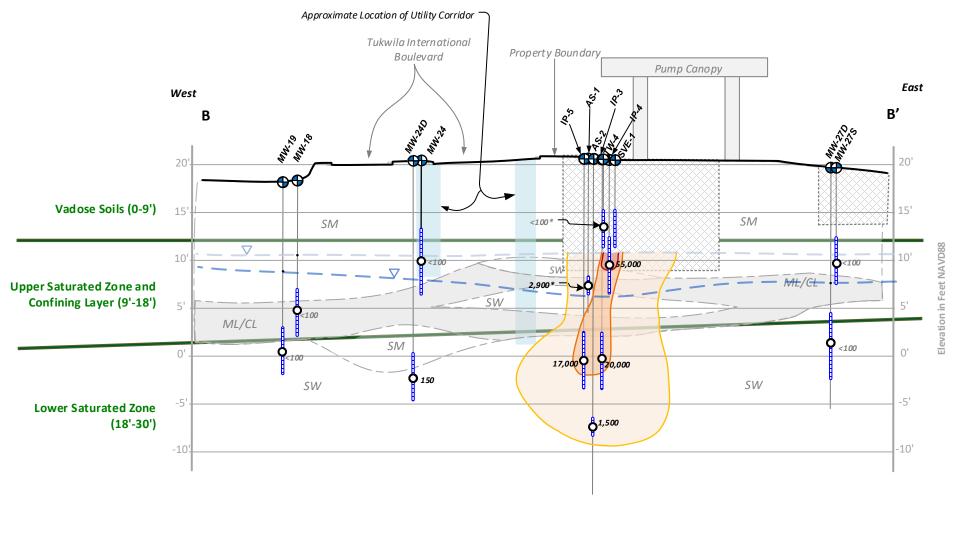
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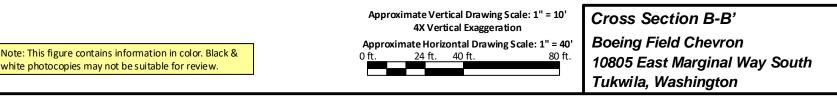
Lower Saturated Zone (18'-30')

Figure

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Note: Analytical results are summarized in Table 2. Interpreted contaminant contours are based on available analytical data.

Figure

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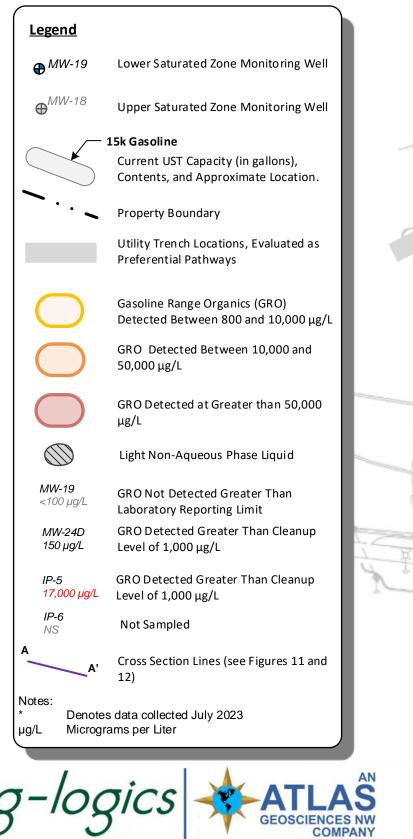
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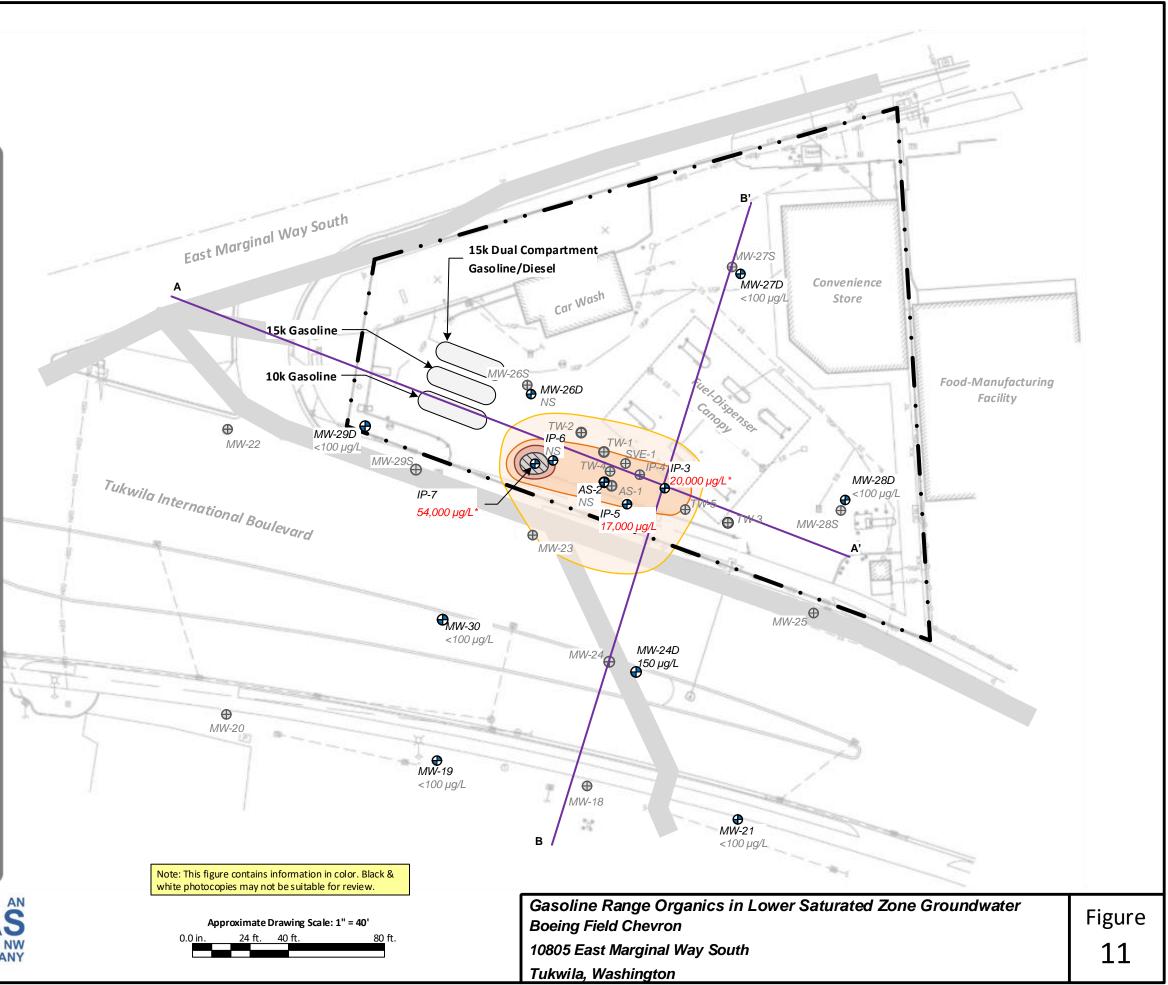
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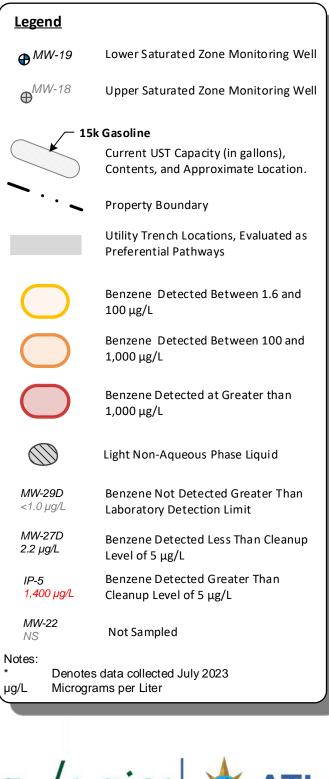
LSZ GRO in

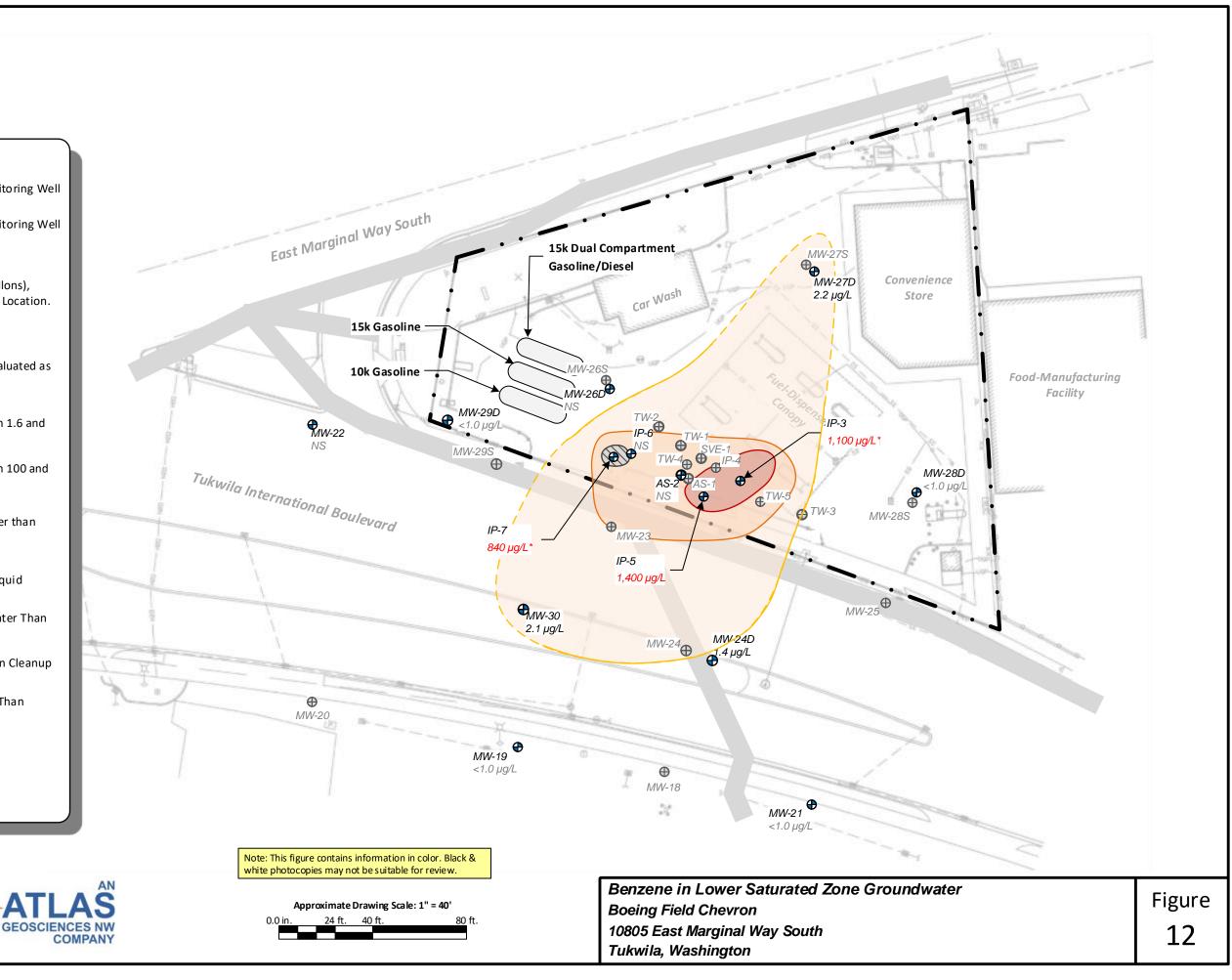
F1

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Mapping References: G-Logics Remedial Investigation Report.

Well Construction Details and Liquid Level Measurements Boeing Field Chevron

10805 East Marginal Way

Tukwila, Washington

Monitoring Well	Well Installation Date	Top of Well Casing Elevation (feet relative to datum) ¹	Depth to Top of Screen (feet below ground surface)	Depth to Bottom of Screen (feet below ground surface)	Well Diameter (inches)	Date Measured	Depth to Water (feet below top of casing)	Depth to Product (feet below top of casing)	Product Thickness (feet)	Calculated Groundwater Elevation ² (feet relative to datum)	Comments
Upper Saturate	d Zone Wells					11/30/2016 3/23/2017	7.88 6.96	ND ND	0.00	10.34 11.26	
						7/27/2017 10/5/2017	8.96 9.80	ND NM	0.00	9.26 8.42	
MW-18	4/16/08	18.22	11	16	1	1/16/2018 5/25/2018	7.79 8.62	NM NM		10.43 9.60	
						8/23/2018 11/27/2018	10.40 9.12	NM NM		7.82	
						3/27/2024	7.77	NM ND	0.00	10.45 7.28	
						3/23/2017	11.89	ND	0.00	6.82	
MW-20	4/16/08	18.71	15	20	1	7/27/2017 10/5/2017	12.35 14.16	ND NM	0.00	6.36 4.55	
						8/23/2018 11/27/2018	15.53 10.21	NM NM		3.18 8.50	
						3/27/2024 12/6/2016	11.10 7.09	NM ND	0.00	7.61 14.05	
						3/23/2017 7/26/2017	8.92 10.55	ND ND	0.00	12.22 10.59	
MW-22	11/17/16	21.14	7	14	1	10/5/2017 1/12/2018	11.16 9.56	NM NM		9.98 11.58	
						8/23/2018 11/27/2018	11.06 11.98	NM NM		10.08 9.16	
						12/6/2016 3/23/2017	10.30 8.63	ND ND	0.00	10.56 12.23	
						7/26/2017	10.36 11.08	ND	0.00	10.50	
MW-23	11/17/16	20.86	6	16	2	1/12/2018	9.38	NM		11.48 10.82	
						5/25/2018 8/23/2018	10.04 10.73	NM		10.13	
						11/27/2018 3/27/2024	10.49 9.26	NM NM		10.37 11.60	
						12/6/2016 3/23/2017	10.34 8.73	ND ND	0.00	9.92 11.53	
MW-24	11/04/16	20.27	9	14	1	7/26/2017 10/5/2017	10.36 11.69	ND NM	0.00	9.90 8.57	
WIVV-24	11/24/16	20.26	9	14	1	1/11/2018 8/23/2018	8.89 11.35	NM NM		11.37 8.91	
						11/27/2018 3/27/2024	9.19 9.26	NM NM		11.07 11.00	
						12/6/2016 3/23/2017	8.94 7.38	ND ND	0.00	10.84	
						7/26/2017	9.31 10.33	ND ND NM	0.00	10.47	
MW-25	11/19/16	19.78	9	14	1	1/12/2018	8.32	NM		9.45 11.46	
						8/23/2018 11/27/2018	9.93 9.68	NM NM		9.85 10.10	
						3/27/2024 11/30/2016	8.17 8.09	NM ND	0.00	11.61 11.39	
						3/23/2017 7/26/2017	6.92 8.98	ND ND	0.00	12.56 10.50	
MW-26S	11/21/16	19.48	7	12	2	10/5/2017 1/11/2018	9.57 7.27	NM NM		9.91 12.21	
						8/23/2018 11/27/2018	8.80 7.85	NM NM		10.68 11.63	
						3/27/2024 11/28/2016	7.57	ND ND	0.00	11.91 11.51	
						3/23/2017 7/26/2017	7.23	ND ND	0.00	12.53	
MW 070	11/01/10	10.7/	7	10	2	10/5/2017	9.68	NM		10.08	
MW-27S	11/21/16	19.76	7	12	2	1/16/2018 5/25/2018	8.05 8.27	NM NM		11.71 11.49	
						8/23/2018 11/27/2018	7.50 8.92	NM NM		12.26 10.84	
						3/27/2024 11/28/2016	9.00 8.14	ND ND	0.00	10.76 11.20	
						3/23/2017 7/26/2017	6.66 8.54	ND ND	0.00	12.68 10.80	
MW-28S	11/18/16	19.34	5	12	2	10/5/2017 1/11/2018	9.51 7.91	NM NM		9.83 11.43	
						8/23/2018 11/27/2018	9.03 8.75	NM NM		10.31 10.59	
						3/27/2024 1/16/2018	7.47	ND	0.00	11.87 11.75	
MW-29S	1/11/18	21.53	10	15	1	5/29/2018 11/27/2018	9.78 11.01 10.73	NM NM NM		10.52 10.80	
						5/2/2006	10.29	ND	0.07	10.20	
						5/8/2006 6/13/2006	10.32 10.35	ND ND	0.00	10.17 10.14	
						6/19/2006 10/13/2006	10.48 13.91	ND 11.69	0.00	10.01 8.22	
						1/4/2007 1/25/2007	9.65 9.97	ND ND	0.00	10.84 10.52	
						2/22/2007 3/7/2007	10.12 10.13	ND ND	0.00 0.00	10.37 10.36	
						5/1/2007 10/1/2007	10.71 11.64	ND ND	0.00	9.78 8.85	
						2/25/2008 2/26/2008	10.40 10.28	10.40 ND	TR 0.00	10.09 10.21	Trace product observed but thickness not measureable
						2/28/2008 3/27/2008	10.27 10.82	ND ND ND	0.00	10.22	 Product level measured after removing absorbent
						4/9/2008 4/18/2008	10.82 10.93 10.97	ND ND ND	0.00	9.56 9.52	Product level measured after removing absorbent Product level measured after removing absorbent Product level measured after removing absorbent
IP-4	4/19/06	20.49	8	16	3	4/22/2008	11.02	ND	0.00	9.47	
						11/30/2016 3/23/2017	10.10 8.01	NM ND	0.00	10.39 12.48	
						7/27/2017 10/5/2017	9.96 10.75	ND NM	0.00	10.53 9.74	
						1/12/2018 5/29/2018	9.23 9.65	NM NM		11.26 10.84	
						8/23/2018 11/27/2018	9.98 10.00	NM NM		10.51 10.49	
						8/15/2022 9/7/2022	10.04 10.49	NM NM		10.45 10.00	
						9/27/2022 10/17/2022	10.69 10.95	ND NM	0.00	9.80 9.54	
						2/22/2023	9.12	ND ND	0.00	11.37 11.48	
						7/19/2023	10.08	ND	0.00	10.41	
		1	1	1		3/27/2024	14.90	ND	0.00	5.59	

Well Construction Details and Liquid Level Measurements

Boeing Field Chevron

10805 East Marginal Way

Tukwila, Washington

Monitoring Well	Well Installation Date	Top of Well Casing Elevation (feet relative to datum) ¹	Depth to Top of Screen (feet below ground surface)	Depth to Bottom of Screen (feet below ground surface)	Well Diameter (inches)	Date Measured	Depth to Water (feet below top of casing)	Depth to Product (feet below top of casing)	Product Thickness (feet)	Calculated Groundwater Elevation ² (feet relative to datum)	Comments
						8/15/2022	9.64	NM		10.95	
						9/7/2022 9/27/2022	9.87 10.04	NM NM		10.72 10.55	
TW-1	4/11/2019	20.59	5	9	2	10/17/2022	10.18	NM		10.33	
						2/22/2023	7.31	ND	0.00	13.28	
						4/24/2023 7/19/2023	8.34 9.61	ND ND	0.00	12.25 10.98	
						8/15/2022	9.61	NM		11.23	
						9/7/2022	9.46	NM		11.06	
						9/27/2022 10/17/2022	9.63 9.84	NM NM		10.89 10.68	
TW-2	4/11/2019	20.52	5	9	2	2/22/2023	8.49	ND	0.00	12.03	
						4/24/2023	8.26	ND	0.00	12.26	
						7/19/2023 3/27/2024	9.54 8.17	ND ND	0.00	10.98 12.35	
						8/15/2022	9.30	NM		11.08	
						9/7/2022	9.50	NM		10.88	
						9/27/2022 10/17/2022	9.72 10.00	NM NM		10.66 10.38	
TW-3	4/11/2019	20.38	5	9	2	2/22/2023	8.05	ND	0.00	12.33	
						4/24/2023	8.01	ND	0.00	12.37	
						7/19/2023 3/27/2024	9.15 7.67	ND ND	0.00	11.23 12.71	
		1				8/15/2022	10.26	ND		10.16	
						9/7/2022	10.64	NM		9.78	
TW-4	8/12/2022	20.42	5	15	2	9/27/2022 10/17/2022	10.76 11.03	NM NM		9.66 9.39	
	5, 12,2022	20.72	Ŭ	10	-	2/22/2023	9.00	ND	0.00	9.39	
						4/24/2023	8.67	ND	0.00	11.75	
						7/19/2023 8/15/2022	10.09 9.93	ND NM	0.00	10.33 10.42	
						9/7/2022	9.93	NM		10.42	
						9/27/2022	10.42	NM		9.93	
TW-5	8/12/2022	20.35	7	12	2	10/17/2022	10.67	NM		9.68	
						2/22/2023 4/24/2023	8.98 8.85	ND ND	0.00	11.37 11.50	
						7/19/2023	9.93	ND	0.00	10.42	
Lower Saturate	d Zone Wells										
						11/30/2016	11.50 10.31	ND ND	0.00	6.54	
						3/23/2017 7/27/2017	10.51	ND	0.00	7.73 7.40	
MW-19	4/16/08	18.04	15	20	1	10/5/2017	13.58	NM		4.46	
						8/23/2018	15.80	NM		2.24	
						11/27/2018 3/27/2024	8.50 9.07	NM NM		9.54 8.97	
						11/30/2016	12.00	ND	0.00	6.58	
						3/23/2017 7/27/2017	12.67 12.35	ND ND	0.00	5.91 6.23	
						10/5/2017	12.35	NM		4.93	
MW-21	4/16/08	18.58	17	22	1	1/16/2018	11.80	NM		6.78	
						5/25/2018 8/23/2018	14.04 17.48	NM NM		4.54 1.10	
						11/27/2018	8.52	NM		10.06	
						3/27/2024	10.98	NM		7.60	
						1/12/2018 5/25/2018	12.08 15.56	NM NM		8.06 4.58	
MW-24D	1/11/18	20.14	20	25	1	8/23/2018	15.97	NM		4.17	
						11/27/2018	12.20	NM		6.02	
						3/27/2024 11/30/2016	13.43 12.19	NM ND	0.00	4.79 7.50	
						3/23/2017	12.19	ND	0.00	7.45	
MN4 047	44/1-11-	10.15	10		~	7/26/2017	13.49	ND	0.00	6.20	
MW-26D	11/17/16	19.69	18	23	2	10/5/2017 1/11/2018	14.66 11.46	NM NM		5.03 8.23	
						8/23/2018	15.65	NM		4.04	
						11/27/2018 11/28/2016	11.92	NM		7.77	
						11/28/2016 3/23/2017	11.48 11.94	ND ND	0.00	8.05 7.59	
						7/26/2017	13.44	ND	0.00	6.09	
MW-27D	11/21/16	19.53	15	22	2	10/5/2017 1/16/2018	15.39 12.04	NM NM		4.14 7.49	
W144-27D	11/21/10	17.03	10	22	2	5/25/2018	12.04	NM		7.49 5.55	
						8/23/2018	16.12	NM		3.41	
						11/27/2018 3/27/2024	12.07 11.90	NM ND	0.00	7.46 7.63	
						3/27/2024	11.90	ND	0.00	7.63	
						3/23/2017	11.93	ND	0.00	7.52	
						7/26/2017 10/5/2017	13.34 15.44	ND NM	0.00	6.11 4.01	
MW-28D	11/18/16	19.45	18	23	2	1/11/2018	12.29	NM		7.16	
						8/23/2018	15.05	NM		4.40	
						11/27/2018 3/27/2024	11.96 12.43	NM ND	0.00	7.49 7.02	
						3/27/2024	12.43	ND		8.17	
						5/29/2018	16.12	NM		5.47	
MW-29D	1/11/18	21.59	20	25	1	8/23/2018 11/27/2018	17.85 13.54	NM NM		3.74 8.05	
	1					3/27/2018	13.54 14.95	NM	0.00	8.05 6.64	
						1/12/2018	13.09	NM		8.11	
MW-30	1/11/10	21 20	20	25	1	5/25/2018	16.89	NM		4.31	
MW-30	1/11/18	21.20	20	25	1						

Well Construction Details and Liquid Level Measurements **Boeing Field Chevron** 10805 East Marginal Way Tukwila, Washington

Monitoring Well	Well Installation Date	Top of Well Casing Elevation (feet relative to datum) ¹	Depth to Top of Screen (feet below ground surface)	Depth to Bottom of Screen (feet below ground surface)	Well Diameter (inches)	Date Measured	Depth to Water (feet below top of casing)	Depth to Product (feet below top of casing)	Product Thickness (feet)	Calculated Groundwater Elevation ² (feet relative to datum)	Comments
						5/2/2006	13.74	ND	0.00	6.54	
						5/8/2006	15.10	ND	0.00	5.18	
						6/13/2006	16.16	ND	0.00	4.12	
						6/19/2006	14.65	ND	0.00	5.63	
						8/22/2006 10/13/2006	16.73 14.55	ND ND	0.00	3.55 5.73	
						1/4/2007	14.55	ND	0.00	9.17	
						2/22/2007	13.45	ND	0.00	6.83	
						5/1/2007	14.22	ND	0.00	6.06	
						10/1/2007	13.82	ND	0.00	6.46	
						2/25/2008	15.59	15.59	TR	4.69	Trace product observed but thickness not measureable
						2/26/2008	14.49	ND	0.00	5.79	
						2/28/2008	13.63	ND	0.00	6.65	
						3/27/2008 4/18/2008	13.74 15.95	ND ND	0.00	6.54 4.33	
IP-3	4/19/06	20.28	18	24	2	4/22/2008	15.96	ND	0.00	4.32	
						3/23/2017	12.96	ND	0.00	7.32	
						7/27/2017	14.16	ND	0.00	6.12	
						10/5/2017	15.32	NM		4.96	
						1/12/2018	12.01	NM		8.27	
						5/29/2018	14.55	NM		5.73	
						8/23/2018	16.23	NM NM		4.05 7.75	
						11/27/2018 8/15/2022	12.53 14.06	NM		6.22	
						9/7/2022	15.87	ND	0.00	4.41	
						9/27/2022	14.15	NM		6.13	
						10/17/2022	14.65	NM		5.63	
						2/22/2023	12.81	ND	0.00	7.47	
						4/24/2023	12.91	ND	0.00	7.37	
						7/19/2023	14.22	ND	0.00	6.06	
						5/2/2006	14.54	ND	0.00	6.54	
						5/8/2006	15.83	ND	0.00	5.25	
						6/13/2006	17.03	ND	0.00	4.05	
						6/19/2006 8/22/2006	15.48 17.57	ND ND	0.00	5.60 3.51	
						10/13/2006	17.57	ND	0.00	5.83	
						1/4/2007	11.93	ND	0.00	9.15	
						1/25/2007	13.97	ND	0.00	7.11	
						2/9/2007	12.65	ND	0.00	8.43	
						2/22/2007	14.33	ND	0.00	6.75	
						5/1/2007	15.06	ND	0.00	6.02	
						10/1/2007	14.54	ND	0.00	6.54	
						10/23/2007	15.51	ND	0.00	5.57	
						2/20/2008	14.41	ND	0.00	6.67	
						3/27/2008	15.01	ND	0.00	6.07	
IP-5	4/26/06	21.08	18	24	2	4/18/2008	15.61	ND	0.00	5.47	
						11/30/2016	13.00	NM		8.08	
						3/23/2017	13.80	NM		7.28	
						7/27/2017	13.76	NM		7.32	
						10/5/2017 1/12/2018	16.17 13.42	NM NM		4.91 7.66	
						5/29/2018	16.82	NM		4.26	
						8/23/2018	17.08	NM		4.00	
						11/27/2018	13.29	NM		7.79	
						8/15/2022	12.13	NM		8.95	
						9/7/2022	16.45	ND	0.00	4.63	
						9/27/2022	14.92	NM		6.16	
						10/17/2022	15.41	NM		5.67	
						2/22/2023	13.63	ND	0.00	7.45	
						4/24/2023 7/19/2023	13.52 14.97	ND ND	0.00	7.56 6.11	

			3/21/2024	14.02	ND	0.00	0.20	

Well Construction Details and Liquid Level Measurements **Boeing Field Chevron** 10805 East Marginal Way Tukwila, Washington

Monitoring Well	Well Installation Date	Top of Well Casing Elevation (feet relative to datum) ¹	Depth to Top of Screen (feet below ground surface)	Depth to Bottom of Screen (feet below ground surface)	Well Diameter (inches)	Date Measured	Depth to Water (feet below top of casing)	Depth to Product (feet below top of casing)	Product Thickness (feet)	Calculated Groundwater Elevation ² (feet relative to datum)	Comments
						8/22/2006	16.93	ND	TR	3.38	Trace product observed but thickness not measureable
						10/13/2006	16.51	14.09	2.42	5.59	
						1/4/2007	13.89	9.98	3.91	9.31	
						1/25/2007	16.39	12.40	3.99	6.87	
						2/9/2007	15.96 13.48	12.09	3.87	7.21	
						2/22/2007 3/7/2007	13.48	13.20 14.62	0.28	5.52	
						5/1/2007	15.29	14.62	1.41	5.74	
						10/1/2007	13.87	13.75	0.12	6.53	
						10/23/2007	15.61	14.20	1.41	5.74	
						2/20/2008	14.41	13.71	0.70	6.42	
						2/21/2008	14.10	14.07	0.03	6.23	Product level measured after removing absorbent
						2/25/2008	15.85	15.74	0.11	4.54	Product level measured after removing absorbent
						2/26/2008	14.34	ND	0.00	5.97	Product level measured after removing absorbent
						2/28/2008	13.53	13.53	TR	6.78	Trace product observed but thickness not measureable
						3/4/2008	14.72	14.26	0.46	5.93	Product level measured after removing absorbent
						3/12/2008	15.70	14.82	0.88	5.26	Product level measured after removing absorbent
						3/13/2008	14.00	13.52	0.48	6.66	Product level measured after removing absorbent
						3/21/2008		ND ND	0.00	NC 5.46	Product level measured after removing absorbent
						3/27/2008 4/2/2008	14.85 14.72	ND 14.72	0.00 TR	5.59	Product level measured after removing absorbent Trace product observed but thickness not measureable
						4/2/2008	16.42	ND	0.00	3.89	Product level measured after removing absorbent
						4/9/2008	15.95	ND	0.00	4.36	Product level measured after removing absorbent
						4/11/2008		ND	0.00	NC	Product level measured after removing absorbent
						4/15/2008		ND	0.00	NC	Product level measured after removing absorbent
						4/18/2008	16.03	ND	0.00	4.28	Product level measured after removing absorbent
						4/22/2008	15.55	ND	0.00	4.76	Product level measured after removing absorbent
						11/18/2008	16.03	ND	0.00	4.28	
						9/22/2009	15.85	14.73	1.12	5.29	Removed non-operational skimmer.
IP-7	8/4/06	20.31	17	23	2	10/27/2009	13.82	13.55	0.27	6.69	Product level measured after removing absorbent
						3/24/2011	14.33	11.68	2.65	7.94	
						6/8/2011	15.82	15.10	0.72	5.02	
						8/2/2011	16.95	14.82	2.13	4.93	
						9/26/2011	17.04	16.09	0.95	3.97	
						11/29/2011 2/1/2012	14.87 14.68	12.39 11.75	2.48 2.93	7.27	
						3/28/2012	14.00	12.71	2.93	7.80 7.21	
						9/29/2012	16.30	14.21	2.09	5.55	
						11/30/2016	13.38	12.51	0.87	7.57	
						3/23/2017	15.12	12.30	2.82	7.27	
						7/26/2017	14.10	11.81	2.29	7.90	
						1/23/2018	16.70	10.70	6.00	8.04	
						5/29/2018	14.72	14.71	0.00	5.60	
						6/7/2018	15.2	14.76	0.44	5.44	
						11/27/2018	14.90	11.62	3.28	7.83	
						5/13/2019	17.25	14.57	2.68	5.04	
						8/15/2022	13.93	12.93	5.00	10.08	
						9/7/2022	15.67	15.26	2.05	6.15	
						9/27/2022	14.10	13.43	3.33	8.67	
						10/7/2022	12.27	ND	0.00	8.04	Product/water pumped from well prior to measurement
						10/17/2022	14.47	14.14	1.66	7.06	
						12/16/2022	10.16	13.27	2.14	11.73	
						12/19/2022	10.16	12.13	0.17	10.28	
						1/20/2023	9.78	12.23	0.35	10.79	
						2/22/2023	12.79 12.77	13.46	0.84	8.14	
						4/24/2023 7/19/2023	12.77	14.55 13.63	2.23	9.19 8.11	
						3/27/2023	14.16	13.63	2.66	5.20	

Notes:

Only current wells are included in this table. Liquid level information for decommissioned wells is included in the Remedial Investigation report.

¹Data from PLS Inc. Topographic Survey dated November 30, 2016. ²Groundwater elevation a functional for the resent based on a product specific gravity (SG) of 0.739 using the equation: Groundwater Elevation = Top of Well Casing Elevation - (Depth to Water - (Product Thickness x Product SG)). NC Elevation could not be calculated with available data. ND Observed or measureable product not detected.

- NM
 Not measured.

 TR
 Trace product observed but thickness not measureable.

Table 2

Groundwater Field Parameter Measurements Boeing Field Chevron 10805 East Marginal Way South Tukwila, Washington Project Number: 01-0410-S

Monitoring Well	Measurement Date	рН	Specific Conductivity (microSiemens per centimeter)	Turbidity (nephelometric turbidity units)	Temperature (degrees Celsius)	Oxidation- Reduction Potential (millivolts)	Dissolved Oxygen (milligrams per liter)
Upper Saturate	ed Zone Wells						
MW-18	3/28/2024	6.26	0.530	6.33	12.3	52.8	0.56
MW-20	3/28/2024	6.44	455.1	76.75	13.4	-43.8	0.87
MW-23	3/27/2024	6.47	403.4	4.26	12.3	208.6	0.92
MW-24	3/28/2024	6.38	1,048	4.94	11.0	168.5	1.82
MW-25	3/27/2024	6.32	457.6	9.57	12.1	234.1	1.76
MW-26S	3/29/2024	6.46	282.3	5.11	10.9	198.1	4.41
MW-27S	3/29/2024	6.53	0.285	4.98	11.8	140.7	0.57
MW-28S	3/28/2024	6.62	297.8	1.28	11.6	41.3	5.01
MW-29S	10/7/2022	6.39	429.9	NM	20.4	14.0	2.40
	8/15/2022	6.53	992	NM	16.6	-115.5	0.32
	9/27/2022	6.66	1,100	NM	17.3	-134.7	0.16
IP-4	2/23/2023	7.34	1,071	33.40	8.5	-98.5	8.06
12-4	4/25/2023	6.77	1,838	27.73	12.5	-56.1	0.43
	7/20/2023	6.70	1,000	2.94	16.4	368.4	0.70
	3/29/2024	6.51	0.536	7.09	12.5	-104.5	0.25
	2/22/2023	9.31	1,259	135.34	8.9	37.7	7.20
TW-1	4/24/2023	8.39	1,510	7.16	11.5	80.1	3.08
	7/19/2023	8.13	1,593	0.29	18.5	450.6	0.69
	2/22/2023	7.82	1,517	26.96	8.3	89.7	16.09
TW-2	4/24/2023	7.05	1,667	18.32	11.3	106.9	6.56
I VV-2	7/19/2023	6.90	1,428	19.63	20.2	497.3	1.72
	3/29/2024	6.88	1,139	2.06	11.4	42.3	1.00
	2/22/2023	6.82	954	3.55	9.8	-134.1	8.25
TW-3	4/24/2023	6.52	1,364	4.60	12.1	-86.2	0.60
1 00-3	7/19/2023	6.75	1,318	0.55	20.7	325.5	0.59
	3/29/2024	6.66	1,203	3.62	12.6	-45.5	0.65
	8/15/2022	6.73	864	NM	18.2	-54.9	0.60
	9/27/2022	6.73	734	NM	18.0	-88.1	0.26
TW-4	2/22/2023	9.52	1,441	166.40	10.0	-7.3	9.17
	4/24/2023	7.84	1,406	19.01	12.4	-35.2	7.34
	7/19/2023	7.50	1,640	0.78	19.6	299.2	0.47
	8/15/2022	6.62	829	NM	16.6	-87.9	1.18
	9/27/2022	6.42	812	NM	17.2	-147.9	0.25
TW-5	2/22/2023	9.78	7,786	213.89	10.3	-428.6	5.47
	4/24/2023	8.74	7,506	95.29	12.8	-383.6	0.25
	7/19/2023	8.87	3,958	0.14	16.8	-246.3	0.26
Lower Saturate	ed Zone Wells						
	8/15/2022	6.60	900	NM	17.1	-0.9	0.54
	9/27/2022	7.67	3,254	NM	17.5	-240.4	0.10
AS-1	2/23/2023	7.85	2,679	378.75	10.0	-258.9	8.09
	4/25/2023	7.01	3,343	37.90	12.2	-73.3	0.68
	7/20/2023	7.23	2,554	55.74	16.5	520.9	0.41
	8/15/2022	6.35	400	NM	15.9	-37.1	0.24
IP-3	2/23/2023	9.39	3,353	590.60	10.4	-319.4	13.05
	4/25/2023	7.75	3,526	8.37	13.6	-133.5	0.35
	7/20/2023	7.44	3,342	121.39	15.4	237.2	0.55
· · · · · · · · · · · · · · · · · · ·	8/15/2022	5.89	222.8	NM	15.5	31.0	0.34
	2/22/2023	10.38	4,682	76.67	11.8	-147.9	7.20
IP-5	2/22/2023 4/24/2023	10.38 9.06	3,037	12.37	14.4	-307.1	0.29
IP-5	2/22/2023 4/24/2023 7/19/2023	10.38 9.06 7.62	3,037 2,975	12.37 240.66	14.4 16.8	-307.1 268.9	0.29 0.30
IP-5	2/22/2023 4/24/2023 7/19/2023 3/29/2024	10.38 9.06 7.62 7.18	3,037 2,975 1,733	12.37 240.66 11.76	14.4 16.8 13.5	-307.1 268.9 -100.3	0.29 0.30 0.73
	2/22/2023 4/24/2023 7/19/2023 3/29/2024 2/23/2023	10.38 9.06 7.62 7.18 6.58	3,037 2,975 1,733 501	12.37 240.66 11.76 118.75	14.4 16.8 13.5 11.4	-307.1 268.9 -100.3 -103.9	0.29 0.30 0.73 14.14
IP-5 IP-7	2/22/2023 4/24/2023 7/19/2023 3/29/2024 2/23/2023 4/25/2023	10.38 9.06 7.62 7.18 6.58 6.32	3,037 2,975 1,733 501 679	12.37 240.66 11.76 118.75 5.41	14.4 16.8 13.5 11.4 13.3	-307.1 268.9 -100.3 -103.9 -15.5	0.29 0.30 0.73 14.14 0.45
IP-7	2/22/2023 4/24/2023 7/19/2023 3/29/2024 2/23/2023 4/25/2023 7/20/2023	10.38 9.06 7.62 7.18 6.58 6.32 6.52	3,037 2,975 1,733 501 679 574	12.37 240.66 11.76 118.75 5.41 86.24	14.4 16.8 13.5 11.4 13.3 17.3	-307.1 268.9 -100.3 -103.9 -15.5 398.6	0.29 0.30 0.73 14.14 0.45 0.54
IP-7 MW-19	2/22/2023 4/24/2023 7/19/2023 3/29/2024 2/23/2023 4/25/2023 7/20/2023 3/28/2024	10.38 9.06 7.62 7.18 6.58 6.32 6.52 6.30	3,037 2,975 1,733 501 679 574 0.423	12.37 240.66 11.76 118.75 5.41 86.24 11.21	14.4 16.8 13.5 11.4 13.3 17.3 12.5	-307.1 268.9 -100.3 -103.9 -15.5 398.6 -9.0	0.29 0.30 0.73 14.14 0.45 0.54 0.39
IP-7 MW-19 MW-21	2/22/2023 4/24/2023 7/19/2023 3/29/2024 2/23/2023 4/25/2023 7/20/2023 3/28/2024 3/28/2024	10.38 9.06 7.62 7.18 6.58 6.32 6.52 6.30 6.35	3,037 2,975 1,733 501 679 574 0.423 0.454	12.37 240.66 11.76 118.75 5.41 86.24 11.21 5.01	14.4 16.8 13.5 11.4 13.3 17.3 12.5 13.7	-307.1 268.9 -100.3 -103.9 -15.5 398.6 -9.0 -63.7	0.29 0.30 0.73 14.14 0.45 0.54 0.39 0.44
IP-7 MW-19	2/22/2023 4/24/2023 7/19/2023 3/29/2024 2/23/2023 4/25/2023 7/20/2023 3/28/2024 3/28/2024 3/27/2024	10.38 9.06 7.62 7.18 6.58 6.32 6.52 6.30 6.35 6.44	3,037 2,975 1,733 501 679 574 0.423 0.454 587	12.37 240.66 11.76 118.75 5.41 86.24 11.21 5.01 869.82	14.4 16.8 13.5 11.4 13.3 17.3 12.5 13.7 13.9	-307.1 268.9 -100.3 -103.9 -15.5 398.6 -9.0 -63.7 -75.0	0.29 0.30 0.73 14.14 0.45 0.54 0.39 0.44 1.05
IP-7 MW-19 MW-21	2/22/2023 4/24/2023 7/19/2023 3/29/2024 2/23/2023 4/25/2023 7/20/2023 3/28/2024 3/28/2024 3/27/2024 10/7/2022	10.38 9.06 7.62 7.18 6.58 6.32 6.52 6.30 6.35 6.44 5.97	3,037 2,975 1,733 501 679 574 0.423 0.423 0.454 587 374.8	12.37 240.66 11.76 118.75 5.41 86.24 11.21 5.01 869.82 NM	14.4 16.8 13.5 11.4 13.3 17.3 12.5 13.7 13.9 15.5	-307.1 268.9 -100.3 -103.9 -15.5 398.6 -9.0 -63.7 -75.0 -38.7	0.29 0.30 0.73 14.14 0.45 0.54 0.39 0.44 1.05 1.88
IP-7 MW-19 MW-21 MW-24D MW-27D	2/22/2023 4/24/2023 7/19/2023 3/29/2024 2/23/2023 4/25/2023 7/20/2023 3/28/2024 3/28/2024 3/27/2024 10/7/2022 3/29/2024	10.38 9.06 7.62 7.18 6.58 6.32 6.52 6.30 6.35 6.44 5.97 6.17	3,037 2,975 1,733 501 679 574 0.423 0.454 587 374.8 0.205	12.37 240.66 11.76 118.75 5.41 86.24 11.21 5.01 869.82 NM 4.42	14.4 16.8 13.5 11.4 13.3 17.3 12.5 13.7 13.9 15.5 13.9	-307.1 268.9 -100.3 -103.9 -15.5 398.6 -9.0 -63.7 -75.0 -38.7 3.8	0.29 0.30 0.73 14.14 0.45 0.54 0.39 0.44 1.05 1.88 0.35
IP-7 MW-19 MW-21 MW-24D	2/22/2023 4/24/2023 7/19/2023 3/29/2024 2/23/2023 4/25/2023 7/20/2023 3/28/2024 3/28/2024 3/27/2024 10/7/2022	10.38 9.06 7.62 7.18 6.58 6.32 6.52 6.30 6.35 6.44 5.97	3,037 2,975 1,733 501 679 574 0.423 0.423 0.454 587 374.8	12.37 240.66 11.76 118.75 5.41 86.24 11.21 5.01 869.82 NM	14.4 16.8 13.5 11.4 13.3 17.3 12.5 13.7 13.9 15.5	-307.1 268.9 -100.3 -103.9 -15.5 398.6 -9.0 -63.7 -75.0 -38.7	0.29 0.30 0.73 14.14 0.45 0.54 0.39 0.44 1.05 1.88

Notes:

NM Not measured

Petroleum Hydrocarbons and Volatile Organic Compounds in Groundwater

Boeing Field Chevron

10805 East Marginal Way

Tukwila, Washington

				Petroleum Hy	drocarbons					Volatile Orga	nic Compounds			
Monitoring Well Identifier	Sample Identifier	Sample Date	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Diesel + Oil Range Organics ¹	Benzene	Toluene	Ethylbenzene	Xylenes ²	Methyl tert- Butyl Ether	1,2-Dibromo- ethane	1,2-Dichloro- ethane	Hexane
oncentrations riginal RI Clea	reported in microg	rams per liter	800	500	500	500	1.6	130	31	NE	NE	NE	NE	NE
evised RI Clea			800	500	500	500	1.6	130	31	106 ⁴	205	0.015	55	480 ⁶
pper Saturate	1			1		1 1		-	1 1		1	I	1 1	
	MW-18 MW-18 GW-L	4/18/2008 7/15/2015	<100 <100	<50	<250	<150	<1 <0.35	<2 <1	<1	<3	<1	<0.01	<1	<1
	MW-18 GW-H	7/21/2015	<100	66	<250	190	<0.35	<1	<1	<3	<1	<0.01	<1	<1
	MW-18	11/30/2016	<50.0	<49.6	<99.3	<74.5	1.01	<1.00	1.19	<1.00	<1.00	<0.00970	<1.00	<1.00
	MW-18-3232017	3/23/2017	<50.0	<50.0	<100	<75.0	<1.00	<1.00	<1.00	<1.00	<1.00	< 0.00979	<1.00	
MW-18	MW-18-7272017 MW-18-1052017	7/27/2017 10/5/2017	<50.0 <50.0	<50.0 <49.8	<100	<75.0 <74.5	<1.00	<1.00 <1.00	<1.00	<1.00	<1.00	<0.00955 <0.00950	<1.00	<1.00
	MW-18	1/16/2018	<50.0				<1.00	<1.00	<1.00	<1.00				
	MW-18	5/25/2018	<50.0				<1.00	<1.00	<1.00	<1.00		<0.00975		
	MW-18 MW-18	8/23/2018 11/28/2018	<50.0 <50.0	<49.9	138		<1.00	<1.00	<1.00	<1.00				
	MW-18	3/28/2024	<100	<180	<280	<230	<1.0	<1.0	<1.0	<1.0				
	MW-20	4/18/2008	<100				<1	<2	<1	<3				
	MW-20 GW-L	7/15/2015	<100	<50	<250	<150	< 0.35	<1	<1	<3	1.4	<0.01	<1	<1
	MW-20 GW-H MW-20	7/21/2015	<100 <50.0	92 <49.8	<250 <99.8	220 <74.8	<0.35 <1.00	<1 <1.00	<1 <1.00	<3 <1.00	1.6 <1.00	<0.01	<1 <1.00	<1
	MW-20-3232017	3/23/2017	<50.0	<49.0	<99.4	<74.6	<1.00	<1.00	<1.00	<1.00	<1.00	< 0.00973	<1.00	< 1.00
MW-20	MW-20-7272017	7/27/2017	<50.0	<50.1	<100	<75.1	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00993	<1.00	
	MW-20-1042017	10/4/2017	<50.0	<49.7	<99.4	<74.6	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00991	<1.00	<1.00
	MW-20 MW-20	8/23/2018 11/27/2018	117 94.6	<49.9	<99.8	<74.9	<1.00	<1.00 <1.00	3.6 5.18	10.4 16.1				
	MW-20 MW-20	3/28/2024	94.6 <100	<49.9	<99.8 220	<74.9 290	<1.00	<1.00	5.18 <1.0	16.1 <1.0				
	MW-22	12/6/2016	<50.0	<50.4	197	222	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00981	<1.00	<1.00
	MW-22-3232017	3/23/2017	<50.0	<49.8	<99.8	<74.8	<1.00	<1.00	<1.00	<1.00	<1.00	< 0.0100	<1.00	
MW-22	MW-22-7262017 MW-22-1052017	7/26/2017 10/5/2017	<50.0 <50.0	<50.2 <49.6	<100	<75.1 <74.5	<1.00	<1.00 <1.00	<1.00	<1.00	<1.00	<0.00978	<1.00	<1.00
	MW-22-1032017	8/23/2018	<50.0	<49.0	131	156	<1.00	<1.00	<1.00	<1.00				
	MW-22	11/27/2018	<50.0	62.7	243	306	<1.00	2.26	1.39	7.02				
	MW-23	12/6/2016	848	94.2	<100	144	19.8	<1.00	<1.00	134	<1.00	<0.00999	<1.00	<1.00
	MW-23-3232017 MW-23-7262017	3/23/2017	<50.0 <50.0	<49.9 <49.7	<99.8 <99.5	<74.9 <74.6	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00983	<1.00	
	MW-23-1052017	7/26/2017	<50.0	<49.7 <49.5 J	<99.0	<74.0	<1.00	<1.00	<1.00	1.27	<1.00	< 0.00995	<1.00	<1.00
MW-23	MW-23	1/12/2018	<50.0	<50.0	<100	<75.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.250	<1.00	
	MW-23	5/25/2018	<50.0	<50.0	<99.9	<75.0	<1.00	<1.00	<1.00	<1.00		<0.00970		
	MW-23 MW-23	8/23/2018 11/27/2018	<50.0 <50.0	<49.7 <49.9	<99.5 <99.8	<74.6 <74.9	<1.00	<1.00	<1.00	<1.00				
	MW-23	3/27/2018	<50.0	<49.9	<99.8	<14.9	<1.00	<1.00	<1.00	<1.00				
	MW-24	12/6/2016	<50.0	<50.2	328	378	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00993	<1.00	<1.00
	MW-24-3232017	3/23/2017	<50.0	<49.7	307	332	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00965	<1.00	
	MW-24-7272017 MW-24-1052017	7/27/2017 10/5/2017	<50.0 <50.0	73.6 63.6 J	313 <122	387 125	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00986 <0.00945	<1.00	<1.00
	MW-24	1/11/2018	<50.0	<49.9	117	142	<1.00	<1.00	<1.00	<1.00	<1.00	<0.250	<1.00	
MW-24	MW-24	5/25/2018	<50.0				<1.00	<1.00	<1.00	<1.00		<0.00995		
	MW-24	8/23/2018		57.4	324	381								
	MW-24 MW-24 ⁷	11/27/2018 3/28/2024	<50.0	<50.3 <210	306	331 <210	<1.00	<1.00	<1.00	<1.00				
	MW-24	3/28/2024	<100	190	460	650	<1.0	<1.0	<1.0	<1.0				
	MW-25	12/6/2016	<50.0	<49.8	128	153	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00984	<1.00	<1.00
	MW-25-3232017	3/23/2017	<50.0	<49.9	<99.7	<74.8	<1.00	<1.00	<1.00	<1.00	<1.00	< 0.00967	<1.00	
MW-25	MW-25-7262017 MW-25-1052017	7/26/2017 10/5/2017	<50.0 <50.0	<50.3 <49.9	<101 <99.8	<75.7 <74.9	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00993	<1.00 <1.00	
	MW-25	8/23/2017	<50.0	<49.9	<99.8	<74.9	<1.00	<1.00	<1.00	<1.00	< 1.00	<0.009987	< 1.00	
	MW-25	11/27/2018	<50.0	<49.9	<99.9	<74.9	<1.00	<1.00	<1.00	<1.00				
	MW-25	3/27/2024	<100	<140	<220	<180	<1.0	<1.0	<1.0	<1.0				
	MW-26 MW-26S-3242017	11/30/2016 3/24/2017	<50.0 <50.0	<49.8 <49.9	<99.6 <99.8	<74.7 <74.9	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00996 <0.00989	<1.00	<1.00
	MW-26S-7262017	7/26/2017	<50.0	<50.2	<100	<74.9	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00989	<1.00	
MW-26S	MW-26S-1042017	10/4/2017	<50.0	<49.6	<99.2	<74.4	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00971	<1.00	<1.00
	MW-26S	8/24/2018	<50.0	<49.7	<99.4	<74.6	<1.00	<1.00	<1.00	<1.00				
	MW-26S MW-26S	11/28/2018 3/29/2024	<50.0 <100	<50.1 <130	<100 <210	<75.1 <170	<1.00	<1.00 <1.0	<1.00	<1.00				
	MW-27S	11/28/2016	<50.0	<50.1	<100	<75.1	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00987	<1.00	<1.00
	MW-27S-3242017	3/24/2017	<50.0	<49.9	<99.8	<74.9	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00994	<1.00	
	MW-27S-7262017	7/26/2017	<50.0	<50.2	<100	<75.1	<1.00	<1.00	<1.00	<1.00	<1.00	< 0.00971	<1.00	
MW-27S	MW-27S-1042017 MW-27S	10/4/2017 1/16/2018	<50.0 <50.0	<49.9 <49.9	<99.8 <99.9	<74.9 <74.9	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00997	<1.00	<1.00
	MW-27S	5/25/2018	<50.0	<49.9	<99.9	<74.9	<1.00	<1.00	<1.00	<1.00		<0.00989		
	MW-27S	8/23/2018	<50.0	<49.7	<99.5	<74.6	<1.00	<1.00	<1.00	<1.00				
	MW-27S	11/28/2018	<50.0	<49.6	<99.2	<74.4	<1.00	<1.00	<1.00	<1.00				
	MW-27S	3/29/2024	<100 <50.0	<170	<280 <99.8	<225 <74.9	<1.0	<1.0 <1.00	<1.0	<1.0				
	MW-28S MW-28S-3242017	11/28/2016 3/24/2017	<50.0	<49.9 <49.9	<99.8	<74.9	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00978 <0.0100	<1.00	<1.00
	MW-28S-7262017	7/26/2017	<50.0	<50.3	<101	<75.7	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00925	<1.00	
MW-28S	MW-28S-1042017	10/4/2017	<50.0	<49.3	<98.6	<74.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00997	<1.00	<1.00
	MW-28S	8/23/2018	<50.0	<49.8	<99.6	<74.7 <74.7	<1.00	<1.00	<1.00	<1.00				
	MW-28S MW-28S	11/27/2018 3/28/2024	<50.0 <100	<49.8	<99.6 <230	<74.7 <185	<1.00	<1.00	<1.00	<1.00				
											_			
	MW-29S	1/16/2018	113	<49.9	<99.8	<74.9	<1.00	<1.00	<1.00	13.8	<1.00	<0.250	<1.00	
MW-29S	-	1/16/2018 5/29/2018 8/24/2018	113 130 201	<49.9 <49.9 106	<99.8 <99.7 <99.6	<74.9 <74.8 156	<1.00 <1.00 <1.00	<1.00 <1.00 <1.00	<1.00 <1.00 <1.00	13.8 8.80 15.2	<1.00	<0.250 <0.00990 <0.00992	<1.00	

Petroleum Hydrocarbons and Volatile Organic Compounds in Groundwater

Boeing Field Chevron

10805 East Marginal Way

Tukwila, Washington

				Petroleum Hy	drocarbons					Volatile Orgar	nic Compounds			
Monitoring Well Identifier	Sample Identifier	Sample Date	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Diesel + Oil Range Organics ¹	Benzene	Toluene	Ethylbenzene	Xylenes ²	Methyl tert- Butyl Ether	1,2-Dibromo- ethane	1,2-Dichloro- ethane	Hexane
Concentrations Original RI Clea	reported in microg	rams per liter	800	500	500	500	1.6	130	31	NE	NE	NE	NE	NE
	IP-4	5/8/2006	110				15,000	48,000	3,700	23,000				
	IP-4 IP-4 GW-L	3/27/2008 7/17/2015	84,400 170,000	6,800	<250	6,900	14,600 4,100	22,100 29,000	4,920 4,800	17,600 27,000	1.4	0.12	<1	87
	IP-4 GW-L	7/24/2015	150,000	8,700	<250	8,800	4,200	23,000	4,300	24,000	<10	0.04	<5	64
	IP-4	11/30/2016	93,400	1,410	<99.6	1,460	1,070	15,600	3,300	20,000	<1.00	<0.00986	<1.00	127 J
	IP-4-3232017 IP-4-7272017	3/23/2017 7/27/2017	209,000 213,000	1,570 1,180	<99.6 <99.4	1,620 1,230	1,360 1,170	16,200 19,600	5,090 5,500	30,400 19,200	<1.00	<0.00953 <0.00971	<1.00 <1.00	
	IP-4-1042017	10/4/2017	212,000	1,100	<101	1,160	2,030	18,400	5,320	25,200	<1.00	< 0.00960	<1.00	48.0
IP-4	IP-4	1/12/2018	162,000	1,250	<99.9	1,300	939	18,600	5,180	28,000	<1.00	< 0.250	<1.00	
	IP-4 IP-4	5/29/2018 8/24/2018	199,000 131,000	1,250 584	138 <99.9	1,390 634	687 421	17,200 11,400	6,090 5,550	32,200 29,300		<0.00998		
	IP-4	11/28/2018	123,000	471	<99.9	521	246	7,380	5,170	27,100		< 0.00962		
	IP-4 IP-4	8/15/2022 9/27/2022	126,000 J 114,000 J	9,500 17,300	<1,110 <92.7	10,000 17,300	54.6 J 47.2 J	2,140 J 2,420 J	5,100 J 4,110 J	14,500 J 17,600 J				
	IP-4	2/23/2023	63,000	3,300	530	3,800	27	81	1,600	6,600				
	IP-4 IP-4	4/25/2023 7/19/2023	57,000 54,000	<4,500 6,300	320 570	2,600 6,900	26 41	110 340	3,100 4,800	11,000 12,000				
	IF-4	3/29/2024	55,000	<6,100	530	3,600	23	7.6	2,900	6,000				
	TW-1	2/22/2023	<100	130	350	480	<0.20	<1.0	<0.20	<0.40				
TW-1	TW-1	4/24/2023	<100	<210	<220	<215	<0.20	<1.0	<0.20	<0.40				
	TW-1	7/19/2023	<100	170	300	500 420	0.30	1.1 9	0.89	4.9 42				
	TW-2 TW-2	2/22/2023 4/24/2023	100 330	110 J <210	310 <220	420 <215	220 <0.40	9 7.1	8	42 31				
TW-2	TW-2	7/19/2023	7,400	170	600	800	1.3	28	18	90				
	TW-2	3/29/2024	<100	<140	<220	<180	<1.0	<1.0	<1.0	<1.0				
TIAL O	TW-3	2/22/2023	14,000	4,800 J	620 350	5,420	2,800	<100	1,500	1,200				
TW-3	TW-3 TW-3	4/24/2023 3/29/2024	13,000 9,400	<3,700 <2,800	350 650	2,100 1,725	2,400 1,600	96 20	1,600 1,300	1,900 970				
	TW-3	8/15/2022	139	<2,000 561	<94.7	608	<0.440	4.25	0.811	4.88				
	TW-4	9/27/2022	133	381	<91.9	427	<0.440	6.35	0.978	4.20				
TW-4	TW-4	2/22/2023	<100	<120	310	370	<0.20	1.1	0.30	1.3				
	TW-4	4/24/2023	<100	<230	<230	<230	<0.40	<2.0	0.86	4.4				
	TW-4 TW-5	7/19/2023 8/15/2022	<100 214,000 J	120 8,850	300 <94.2	400 8,900	<0.20 351 J	<1.0 38,400 J	<0.20 6,000 J	0.41 23,800 J				
	TW-5	9/27/2022	178,000 J	8,520	<94.2	8,570	258 J	30,400 J	3,890 J	20,900 J				
TW-5	TW-5	2/22/2023	140,000	9,200 J	540 J	9,700	220	24,000	4,200	21,000				
	TW-5	4/24/2023	150,000	<4,400	330	2,500	220	25,000	5,400	27,000				
	TW-5	7/19/2023	150,000	3,400 J	440 J <101	3,800 320	340	41,000	5,800	29,000 142				
	AS-1 AS-1	4/17/2019 8/15/2022	<mark>4,150</mark> 474	270 617	478	320 1,100	702 5.98	224 <0.750	138 31.8	26.7	<1.00	<0.0100	<1.00	
AS-1	AS-1	9/27/2022	5,780 J	3,610	<93.0	3,660	104 J	14.8 J	464 J	240 J				
	AS-1 AS-1	2/23/2023 4/25/2023	6,000 3,000	2,900 <450	620 <220 J	3,500 <335	32 16	36 15	310 150	710 350				
	AS-1	7/20/2023	2,900	720 J	<220 J	830	25	18	150	380				
Lower Saturated AS-2	d Zone Wells AS-2	4/17/2019	1,560	<50.0	<100	<75.0	20.8	78.4	22.4	128	<1.00	<0.00994	<1.00	
	IP-3	5/8/2006	28				1,800	13,000	1,400	8,300				
	IP-3 IP-3 GW-L	3/27/2008 7/17/2015	62,900 4,200	460	<250	 585	6,120 1,200	8,850 11	968 70	4,420 39	1.2	0.10	<1	38
	IP-3 GW-H	7/23/2015	4,700	510	<250	640	1,300	13	71	41	<10	0.040	<5	35
	IP-3-3232017 IP-3-7272017	3/23/2017 7/27/2017	4,840 5,800	<49.9 <50.2	<99.8 <100	<74.9 <75.1	783 862	105 20.5	127 136	139 61.6	<1.00	<0.00976 <0.00952	<1.00 <1.00	
	IP-3-1042017	10/4/2017	3,740	<50.3	<101	<75.7	1,270	80.7	214	458	<1.00	<0.0100	<1.00	72.7
IP-3	IP-3 IP-3	1/12/2018 5/29/2018	4,610 4,870	74.3 <49.9	<99.6 <99.8	124 <74.9	895 971	42.9 34.5	94.3 106	88.9 107	<1.00	<0.250 <0.00984	<1.00	
	IP-3	8/24/2018	6,160	111	101	212	1,390	27.1	125	141		<0.00987		
	IP-3 IP-3	11/28/2018 8/15/2022	3,710 4,450 J	63.9 277	<99.7 612	114 889	865 1,080	18.8 21.9	53.0 43.1	52.4 92.1		<0.00997		
	IP-3	2/23/2023	29,000	2,100 J	480	2,600	3,100	4,700	1,200	3,400				
	IP-3	4/25/2023	21,000	<930	<210 J	<570	2,100	3,700	1,200	3,700				
	IP-3 IP-5	7/20/2023 5/9/2006	20,000 48	1,600 J	400	2,000	1,100 2,100	1,600 18,000	1,300 3,500	3,200 20,000				
	IP-5	3/27/2008	13,300				711	1,260	363	1,370				
	IP-5 GW-L IP-5 GW-H	7/20/2015 7/24/2015	35,000 27,000	3,900 2,700	<250 <250	4,000 2,800	5,200 4,500	1,400 1,100	2,400 2,200	2,800 2,600	<10	0.32	<5 <5	160 170
	IP-5	11/30/2016	15,200	321	<99.1	371	3,450 J	212	774	1,790	<1.00	<0.00987	<1.00	57.1 J
	IP-5-3232017 IP5-7272017	3/23/2017 7/27/2017	18,400 15,800	209 102	<99.2 <99.9	259 152	1,740 1,660	141 164	665 491	1,640 936	<1.00	<0.00980 <0.00993	<1.00 <1.00	
IP-5	IP-5-1042017	10/4/2017	30,700	175	<100	230	4,360	583	1,060	2,800	<1.00	<0.00971	<1.00	137
	IP-5 IP-5	1/12/2018 5/29/2018	13,000 10,900	222 161	<100 <100	270 210	1,500 1,270	240 149	462 415	1,200 807	<1.00	<0.250 <0.00981	<1.00	
	IP-5	8/24/2018	36,200	471	<99.9	521	5,670	2,200	1,190	2,770				
	IP-5 IP-5	11/28/2018 8/15/2022	16,500 13,200 J	251 625	<101 <95.7	302 673	2,590 1,940 J	490 346 J	633 358 J	1,110 916 J		<0.00994		
	IP-5	2/22/2023	21,000	3,400	550	4,000	3,000	350	1,100	3,000				
	IP-5 IP-5	4/24/2023 7/19/2023	14,000 25,000	<2,000 2,600	460 430	1,000 3,000	1,700 4,900	190 3,000	860 1,400	2,100 3,200				
	IP-5	3/29/2024	17,000	<1,800 J	220 J	1,100	1,300	910	780	2,000				
	IP-7	8/16/2022	111,000 J	49,300 J	<93.9	24,697	1,040 J	3,620 J	2,920 J	15,300 J				
IP-7	IP-7 IP-7	2/23/2023 4/25/2023	82,000 53,000	16,000 <2,200	680 260	17,000 1,400	850 450	6,700 4,400	2,600 3,100	14,000 11,000				
	IP-7 IP-7	7/20/2023	54,000	<2,200 4,000	380	4,000	840	5,300	2,500	13,000				
	MW-19	4/18/2008	<100				<1	<2	<1	<3				
	MW-19 GW-L	7/15/2015	<100	74	<350	250	<0.35	<1	<1	<3	<1	<0.01	<1	<1
	MW-19 GW-H	7/21/2015	<100	74	<250	200	< 0.35	<1	<1	<3	<1	< 0.01	<1	<1
	MW-19 MW-19-3232017	11/30/2016 3/23/2017	<50.0 <50.0	<49.9 <49.6	<99.7 <99.2	<74.8 <74.4	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00983 <0.00961	<1.00 <1.00	<1.00
MW-19	MW-19-3232017 MW-19-7272017	7/27/2017	<50.0	<50.1	<100	<74.4	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00981	<1.00	
	MW-19-1052017	10/5/2017	<50.0	<49.7	<99.4	<74.6	<1.00	<1.00	<1.00	<1.00	<1.00	< 0.00985	<1.00	<1.00
	MW-19	8/23/2018	<50.0				<1.00	<1.00	<1.00	<1.00				
	MW-19	11/27/2018	<50.0	<50.2	111	136 <195	<1.00	<1.00	<1.00	<1.00				
	MW-19	3/28/2024	<100	<150	<240		<1.0	<1.0	<1.0	<1.0				

Petroleum Hydrocarbons and Volatile Organic Compounds in Groundwater

Boeing Field Chevron

10805 East Marginal Way

Tukwila, Washington

Monitoring		Sample		Petroleum Hy	drocarbons					Volatile Orga	nic Compounds			
Monitoring Well Identifier	Sample Identifier	Date	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Diesel + Oil Range Organics ¹	Benzene	Toluene	Ethylbenzene	Xylenes ²	Methyl tert- Butyl Ether	1,2-Dibromo- ethane	1,2-Dichloro- ethane	Hexane
Concentrations	reported in microg	rams per liter				-								
Original RI Clea			800	500	500	500	1.6	130	31	NE	NE	NE	NE	NE
	MW-21	4/18/2008	<100				<1	<2	<1	<3				
	MW-21 GW-L	7/15/2015	<100	220	<250	360	<0.35	<1	<1	<3	<1	<0.01	<1	<1
	MW-21 GW-H	7/21/2015	<100	260	<250	390	<0.35	<1	<1	<3	<1	<0.01	<1	<1
	MW-21	11/30/2016	<50.0	<49.8	210	240	2.61	<1.00	<1.00	<1.00	<1.00	0.00973	<1.00	<1.00
	MW-21-3232017	3/23/2017	<50.0	<49.9	<99.9	<74.9	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00980	<1.00	
MW-21	MW-21-7272017	7/27/2017	<50.0	<50.1	331	356	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00983	<1.00	
	MW-21-1052017	10/5/2017	<50.0	<49.3	<98.7	<74.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00993	<1.00	<1.00
	MW-21	1/16/2018	<50.0	<49.8	<99.7	<74.8	<1.00	<1.00	<1.00	<1.00				
	MW-21	5/25/2018	<50.0	<49.5	<98.9	<74.2	<1.00	<1.00	<1.00	<1.00		<0.00993		
	MW-21	8/23/2018	<50.0	<49.9	228	253	<1.00	<1.00	<1.00	<1.00				
	MW-21	11/28/2018	<50.0	<49.9	316	341	<1.00	<1.00	<1.00	<1.00				
	MW-21	3/28/2024	<100	180	390	570	<1.0	<1.0	<1.0	<1.0				
	MW-24D	1/12/2018	841	<50.0	<99.9	<75.0	9.29	1.37	<1.00	6.15	<1.00	<0.250	<1.00	
MW-24D	MW-24D	5/25/2018	481	<50.0	<99.9	<75.0	33.5	1.38	<1.00	4.22		<0.00991		
	MW-24D	8/23/2018	97.2	<50.4	<101	<75.7	<1.00	<1.00	<1.00	1.17				
	MW-24D	3/27/2024	150	<150	<210	<180	1.4	1.8	<1.00	5.5				
	MW-26D	11/30/2016	<50.0	<49.9	<99.8	<74.9	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00997	<1.00	<1.00
	MW-26D-3242017	3/24/2017	<50.0	<49.6	<99.1	<74.4	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00952	<1.00	
MW-26D	MW-26D-7262017	7/26/2017	<50.0	<49.9	<99.8	<74.9	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00976	<1.00	
1111-200	MW-26D-1042017	10/4/2017	<50.0	<50.0	<100	<75.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0100	<1.00	<1.00
	MW-26D	8/24/2018	<50.0	<49.7	<99.5	<74.6	<1.00	<1.00	<1.00	<1.00				
	MW-26D	11/28/2018	<50.0	<49.8	<99.7	<74.8	<1.00	<1.00	<1.00	<1.00				
	MW-27D	11/28/2016	<50.0	<50.0	<100	<75.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00990	<1.00	<1.00
	MW-27D-3242017	3/24/2017	165	<50.0	<100	<75.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00993	<1.00	
	MW-27D-7262017	7/26/2017	384	<50.4	<101	<75.7	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00988	<1.00	
	MW-27D-1042017	10/4/2017	268	<49.8	<99.6	<74.7	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00997	<1.00	32.3
MW-27D	MW-27D	1/16/2018	723	<49.8	<99.5	<74.7	<1.00	<1.00	<1.00	<1.00				
	MW-27D	5/25/2018	663	<50.0	<100	<75.0	<1.00	<1.00	<1.00	<1.00		<0.00967		
	MW-27D	8/24/2018	1,360	441	608	1,050	<1.00	<1.00	<1.00	<1.00				
	MW-27D	11/28/2018	425	<49.7	<99.3	<74.5	<1.00	<1.00	<1.00	<1.00				
	MW-27D	3/29/2024	<100	220	<160	300	2.2	<1.0	<1.0	<1.0				
	MW-28D	11/28/2016	<50.0	<49.5	<99.1	<74.3	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00995	<1.00	<1.00
	MW-28D-3242017	3/24/2017	<50.0	<49.7	<99.4	<74.6	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00989	<1.00	
	MW-28D-7262017	7/26/2017	<50.0	<49.9	<99.8	<74.9	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00982	<1.00	
MW-28D	MW-28D-1042017	10/4/2017	<50.0	<49.6	<99.1	<74.4	<1.00	<1.00	<1.00	<1.00	<1.00	<0.00993	<1.00	<1.00
	MW-28D	1/11/2018												
	MW-28D	8/23/2018	<50.0	<49.8	<99.7	<74.8	<1.00	<1.00	<1.00	<1.00				
	MW-28D	11/27/2018	<50.0	<49.6	<99.1	<74.4	<1.00	<1.00	<1.00	<1.00				
	MW-28D	3/28/2024	<100	180	980	1,200	<1.0	<1.0	<1.0	<1.0				
	MW-29D	1/12/2018	<50.0	<50.0	<100	<75.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.250	<1.00	
	MW-29D	5/29/2018	<50.0	<50.0	<100	<75.0	<1.00	<1.00	<1.00	<1.00		<0.00992		
MW-29D	MW-29D	8/24/2018	<50.0	<49.9	<99.8	<74.9	<1.00	<1.00	<1.00	<1.00		<0.0100		
	MW-29D	11//28/2018	<50.0	<49.9	<99.7	<74.8	<1.00	<1.00	<1.00	<1.00		<0.00948		
	MW29-D	3/28/2024	<100	<140	<220	<180	<1.0	<1.0	<1.0	<1.0				
	MW-30	1/12/2018	719	<49.9	<99.9	<74.9	53.6	1.87	<1.00	12.1	<1.00	<0.250	<1.00	
	MW-30	5/25/2018	311	<49.9	<99.7	<74.8	55.5	1.41	<1.00	7.53		<0.00999		
MNA/ 00	MW-30	8/23/2018	161	<49.7	115	140	<1.00	<1.00	<1.00	4.89		< 0.0100		
MW-30	MW-30	11/27/2018	150	<49.8	<99.6	<74.7	1.9	<1.00	<1.00	5.13		<0.00988		
	MW-30 ⁷	3/27/2024		<210	<210	<210								
	MW-30	3/27/2024	<100	<130	<210	<170	2.1	<1.00	<1.00	<1.00				

Notes:

Only those analytes detected or specifically targeted for evaluation are included in the table. Refer to the laboratory reports in Appendix A for full list of analytes and analytical methods.

¹For analytes without positive detections, a value of one-half of the practical quantitation limit indicated is assigned for that analyte when calculating the sum of diesel and oil-range petroleum hydrocarbons.

²When concentrations of multple xylene isomers are reported by the laboratory, for analytes without positive detections, a value of one-half of the practical quantitation limit indicated is assigned for that analyte when calculating total xylenes. ³Cleanup levels selected in the Remedial Investigation Report (G-Logics 2020).

⁴Aquatic Life Protective Value for Marine Water from Ecology Implementation Memorandum #23.

⁵MTCA Standard Method A Cleanup Levels for Groundwater, Chapter 173-340 Washington Administrative Code, Table 720-1.

⁶Most stringent MTCA Method B groundwater cleanup level.

⁷Sample analyzed using silica gel cleanup.

- <101 The analyte was not detected at a concentration above the indicated reporting limit.
- 270 Bold value indicates contaminant detected.
- Bold value and yellow shading indicates concentration exceeds applicable cleanup level. 4,150
- <250 Reporting limit is greater than the applicable cleanup level.
- J
- Sample not analyzed. Sample result considered estimated because of quality assurance/quality control exceptions. Model Toxics Control Act
- MTCA NE Not established
- RI Remedial investigation

APPENDIX A

MARCH 2024 GROUNDWATER MONITORING DATA FORMS

			Grou	Indwa	ter Sai	mpling	Infor	mation		
Well ID	: IP-4			Project	Number:	01-0410)-S	Samplin	g Date:	3/29/24
Total Dept	h (ft): 14			Water Volu	ume in Casi	ng (gal):	1,91	Sampler:	HL SS	HVS
Well Scree	en Interval (ft)	: 8-14		Purge Met		w Elow	1	Equipment	: YSI and f	low-through cell,
Well Diam	. ,			End Depth	to Water (f	t): 9,57	_	peristaltic	pump	
Tubing Inta		12,0		Calculated	Purge Volu	ıme (gal):	5,73	Well Cond	itions:	
Starting De	epth to Water	(ft): 8,7	4	Total Volu	me Purged	(gal): 2.)		1		
			Grou	ndwat	er Par	amete	r Moni	itoring		
Time	TEMP	рН	ORP	COND	TURB	DO	DTW	Volume		Notes
	° C	SU	mV	mS/cm	NTU	mg/L	feet	gallons	(Ap	pearance, Odors, Etc.)
12.01	± 3%	± 0.1	±10	± 3%	± 10%	± 10%	<0.33			
1700	12,4	6,59	-30,9	0,545	1	3.07	8,95	0,25		
1203	12,4	6.54	-649	2'221	2.36	1,34	9.01	0.30	0.98	5 3-21
1205	12.4	6.53	-73.0	the state of the s	9,43	1,05	9.03	3.55	0,45	5 220
1209	12.4	6.52	-79.5	0,524	8.92	28,0	9,05	4	0,52	5 2.20
(212	12.4	6.52	-86.4	0,534	9.17	0,64	80,0	0,60		
1215	12,4	6,52	8,88-	0.523	8,27	1	9.12	0,70		
1218	12,4	6.51		0,582	7,65	0,48	9.14	03.0		
1221	12,11	6,51	-75,4		7,05	14,0	1,12.	0,90		
1224	12.4	6,51		0.537	7,02	0,34	1.12	0,00		
1221	12,5	6.50	-99,8	1. 939	7.11	0,31	9,12	1,10		
(230	12.5	6.51	- 102,0		7.48	0,27	9,16	1,20		
1233	12.5	6.51		0.534	7.18		1			
1236	12.5	6.51		0.536		0.26	9.20	1.30		
1000	12	Q.)	101.)	0.000	1.09	0.25	9.21	1.40		
				Casing Vol	ume in Gallo	ons: 1" Diar		al/ft, 2" Dian) [【] 1	n = 0.163 g	al/ft, 4" Diam = 0.653 gal/ft
			Sa	mple	Collec	tion In	forma	tion		
Sample	Number	Sample	Time	Ana	ytes		ontainers	Preserv	vatives	Duplicate (Y/N)
TP-L	1	1245)	See	COC	3VOA	ibers	H	21	N
									``	
		\sim			Tota	l Number o	of Sample C	ontainers (Collected:	5
AND DESCRIPTION OF TAXABLE PARTY.	Method: Bai	AND ADDRESS OF THE OWNER WATER OF THE OWNER.	and the second s	ersible / Ot	her:					
Purge Wat Additional (er Disposal I	Method:	Drum	nin (m. 1. januar). Shina man kana (m. 1. januar					Accession of the second second	
	Johnments:									
		united at a	and the second second second second	and the second				Control of		

			Grou	Indwa	ter Sar	mpling	Inform	nation			
Well ID	: IP-5			Project	Number:	01-0410	-S	Samplin	g Date:	3/29/24	
Total Dept	h (ft): 24	nin verti en la Stanova e estado e serie		Water Volu	ume in Casi	ng (gal): /	68	Sampler:			1
Well Scree	en Interval (ft)	: 18-24		Purge Met	hod:) OW	Floy				w-through cell,	- `s
Well Diam	eter (in): 2			End Depth	to Water (f		5	peristaltic	pump		
Tubing Inta	ake Depth: ~	21		Calculated	Purge Volu	ime (gal): Z	504	Well Condi	itions:		1
	epth to Water		n	Total Volu	me Purged	(gal): 12	1.1	1			
		10.1		ndwat	er Par	amete	r Moni	itoring			
Time	TEMP	pН	ORP	COND	TURB	DO	DTW	Volume		Notes	1
	°C	SU	mV	mS/cm	NTU	mg/L	feet	gallons	(Арре	earance, Odors, Etc.)	
INII	± 3%	±0.1	± 10	± 3%	± 10%	± 10%	<0.33				-
1041	10.4	7.23	79.0	1756	24.25	5.46	13.83		Slightly	amper cloudy,	perro
1044	13.4	7.21	36.1	1765	20.96	2.94	13.83		11	1	odor
1047	13,4	7.20	-21.9	1780	19.21	2.08	13.810		11		
1050	13.4	7.20	-50.2	1792	18.39	1.59	1388	1.25	11		1
1053	13.5	7.20	- 660.0	1799	1799	1.30	1391)	-	4		-
10510	13.4	719	-76.9	1799	1707	1.15	13.92	0.5	15		-
1059	13,4	719	-827	178G	1537	101	1295		Lintad	0 - 600 21	-
1000	13.5	719	-88.2	1781	1/119	002	1396		TINTEC	amber color	petro odu
1107	1.0.2	I.I.	08.2	1101	14.0	0.40	12.710	170			-
105	13.4	T.0	-92.6	1tley	14.17	0.86	13.99	0.15	1)		4
1108	13,4	7.18	-95.6	1759	13,24	0.8	14.01		ч		
	13.4	7.18	-98.	1747	12.80	0.77	14.03		ι		
1114	13.5	7.18	-100.3	1733	11.710	0.73	14.15	0.9	11		1
							/				1
											1
						1					-
											1
											-
										State Specific Action of the Assessed State Specific Action of the	4
				Casing Vo	lume in Gall	lons: 1" Diar	m = 0.041 g	al/ft, 2" Diar	m = 0.163 gai	l/ft, 4" Diam = 0.653 gal/f	t
			Sa	ample	Collec	tion In	forma	tion			
Sample	e Number	Sampl			lytes	T	Containers	1	vatives	Duplicate (Y/N)	1
IP)-5	1125	5	See	CDC	3 VUI 2 AN	AS	HC	1	Y	-
Due	1	180	1)	11				<u>10</u>			-
Imp)1	0.00									-
		J			Tota	al Number o	of Sample (L Containers	Collected:	10	1
Dr	n Method: Ba		and an experimental second sec	ersible / O	The second s						
Purge Wa	ter Disposal	Method:	Drim	,		a far an a state of the state o					
Additional	Comments: S	Frong F	o orta	aur, pr	essun	e whe	nope	ming			
								,			
L			<i></i>					And Constant of Constant Manager Manager of Street Street			

			Grou	Indwa	ter Sai	mpling	Infor	mation		
Well ID :	TW-2			Project	Number:	01-0410	-S	Samplin	g Date:	3/29/24
Total Depth	(ft): 10.2	field = 10	2	Water Volu	ume in Casi	ng (gal):	.35	Sampler:	HVS	
Well Screen	Interval (ft):	: 5-9		Purge Met	hod:) ()	FION		Equipment	: YSI and f	flow-through cell,
Well Diamet	er (in): 2				to Water (f	t): 7.61)	peristaltic	pump	
Tubing Intak	e Depth: $$	9		Calculated	Purge Volu	ume (gal):	-06	Well Cond	itions:	
Starting Dep	oth to Water	(ft): 8.03	3		me Purged		15			
				ndwat	er Par	amete	r Moni	itoring		
Time	TEMP	рН	ORP	COND	TURB	DO	DTW	Volume		Notes
H	° C	SU	mV	mS/cm	NTU	mg/L	feet	gallons	(Ap	pearance, Odors, Etc.)
2050	± 3%	±0.1	±10	± 3%	± 10%	± 10%	<0.33			
2852		6.90	197.1	1092	37.42	<i>t.</i> 19	8.32		slowed	dawn prump, de
)855	1(.	6.85	195.2	1125	27.38	4.87	8.37		Slowe	d pump more c
1828	11.1	6.86	192.4	1136	21.17	4.06	8.41		L I	red primp dain
1001		10.87	186.7	1146	22.45	3.49	8.43		Clea	· · · ·
904	11.2	0.810	176.8	1152	20.45	3.07	8.44	0.25	11	
1907	11.2	10.810	1600	1159	13.16	2.68	8.47		11	
1910	112	10,810	148.0	1101	12.37	243	848	-	11	
1913	113	686	135.8	1164	992	215	830		1	
)916	112	187	1751	111.7	12/18	192	851	COD 0.1		
1010	11.2	1.87	1201	111.0	Sal	1 ad	0.51	0.1	11	
022	11.2	10.0 F	10.7	1109	8.94	1.80	0.02			
MLL	11.2	0.0 T	106.5	ITHO	t.96	1.13	8.52			
925	1.4	6.06	45.5	1165	4.72	1.60	8.52			
1928	11.4	6.8F	83,9	lille	6.09	1.43	8.53	0.4	clea	
931	11.5	6.87	<u>t8.0</u>	1162	3.89	1.34	8.53		11	
934	11.4	6.87	70.7	1158	3.52	1.24	8.54	0.5	۱.	
1937	11.4	6.88	103.4	1151	3.15	1.15	8.55		۱ (
)940	11.4	6.88	57.1	1140	2.29	1.10	8.55		11	
			Sa			ons: 1" Diar			n = 0.163 g	gal/ft, 4" Diam = 0.653 gal/ft
Sample	Number	Sample	Time	Ana	lytes	Sample C	ontainers	Preser	vatives	Duplicate (Y/N)
TW-	2	1002	5	Sep	COC	3 VOK	subers	HC	1	N
							· · · · ·			
					and the second	al Number o	of Sample (Containers	Collected:	5
		iler / Perista	A COLUMN A C	ersible / Ot	her:			a sequences and a	the later of the basis of	
urge wate	r Disposal		Drum			POSSI				

10f 2

TW-2 ATLAS GEOSCIENCES NW Continued

See

			G	round	water	Samp	ling In	format	tion			
Well ID :	TW-	2 (1	NT	Project	Number:		10-S			3/29	12/1	
Total Depth	n (ft):		/ • /	Water Volu	ume in Casi	ing (gal):	ITU S	Sampler:		5/29	24	an anna a su an gaine an anna an a
Well Screer	n Interval (ft):	:		Purge Met	hod:			Equipmen	t:			
Well Diame	eter (in):			End Depth	to Water (f	īt):						
Tubing Inta	ke Depth:			Calculated	Purge Volu	ume (gal):		Well Cond	litions:			
Starting De	pth to Water	(ft):	and an and a set of the	Total Volu	me Purged	(gal):						
			G	round	water	Param	eter M	onitor	ing			
Time	TEMP	рН	ORP	COND	TURB	DO	DTW	Volume	Flow Rate		Notes	-
	°C	SU	mV	mS/cm	NTU	mg/L	feet	gallons	mL/min	(App	earance, Odo	rs, Etc.)
AGUA	± 3%	± 0.1	± 10	± 3%	± 10%	± 10%	<0.33					
0943	11.4	6.88	51.8	1130	2.24	1.06	8.56	0.8		clear		
0946	11.4	6.88	46.7	1138	2.06	1.04	8.56			~ (
0949	11.4	6.88	42.3	1139	2.06	1.00	8.57	ł		15		
~		<u> </u>		1101	AVY	1.00	0.51				-	
											1	and a second second second second
						ume in Gallo				n = 0.163 gai	/ft, 4" Diam =	: 0.653 gal/ft
Sample	Number	Sample	Time	Anal	and a second	Sample C	1		• reservative:	s	Duplicat	e (Y/N)
					en del compositor a compositor del compositori del						•	a secondaria
					10000000000000000000000000000000000000	Total	Number	f Samela C	ontainers C	alleste		
Collection I	Method: Bai	ler / Peristal	tic / Subme	ersible / Otl	ner:	TUTA	a aumber o	i Sample C	ontainers C	ollected:		
and the second se	r Disposal M	A REAL PROPERTY AND A REAL										
Additional C	omments:		e Guest (Menter)	all a second	A Party Constrained of Constrained of				and the second	terriptions.	a and a second a second a second as a second	

Sompler: $S = S = 1$ Value Volume in Casing (gal): $(Q_1Y)^2$ Sampler: $S = S = 1$ Value Method: $[L_{NA} \cap [L_{NA} \cap [L_{NA$	Nell ID :	TW-3			Project I		01-0410	the second s	nation Samplin	and the second se	3-50
Vell Screen Interval (ft): 5-9 Purge Method: $\begin{bmatrix} J_{a,b} \\ J_{b,c} \end{bmatrix}$ Equipment: YSI and flow-through cell, periatalitic pump Vell Diameter (ft): 2 End Depth: Water (ft): Periatalitic pump Uping Intake Depth: $\begin{bmatrix} J_{a,b} \\ J_{c} \end{bmatrix}$ Calculated Purge Volume (gal): $\begin{bmatrix} J_{c} \end{bmatrix}$ Well Conditions: Intring Depth to Water (ft): $\begin{bmatrix} J_{c} \end{bmatrix}$ Calculated Purge Volume (gal): $\begin{bmatrix} J_{c} \end{bmatrix}$ Well Conditions: Condot Volume Purge Gal): Notes OPTIME Volume: $\begin{bmatrix} J_{a,b} \\ J_{c} \end{bmatrix}$ Notes (Appearance, Odors, Etc.) ±3% ±00 ±3% ±10 ±3% ±10% ±3% ±3% ±10 ±3% ±10% ±3% ±10% ±3% ±10% ±3% ±3% ±10 ±3% ±10% ±3% ±10% ±3% ±10% ±3% ±10% ±3% ±10% ±3% ±10% ±3% ±10% ±3% ±10% ±3% ±10% ±3% ±10% ±3% ±10% ±3% ±10% ±3% ±10% ±3% ±10% ±3% ±10% ±3% ±10% ±3% ±10% ±3% ±	Fotal Dept	h (ft): 10.2	application 4 and a second		Water Volu	ime in Casii	ng (gal): ()	437	Sampler:	(5)	
Velt Dameter (in): 2 End Depth to Water (it): peristaltic pump Velt Dameter (it): 7 (-5) Calculated Purge Volume (gal): 1 (-5) Well Conditions: Time Tend Per Purge (gal): Volume (gal): 1 (-5) Volume (gal): 1 (-5) Volume (gal): 1 (-5) Volume (gal): 1 (-5) Time Tend PP Purge (gal): Volume (gal): 1 (-5) Volume (gal): 1 (-5) Volume (gal): 1 (-5) Volume (gal): 1 (-5) 1 (-5) Sum my ms/cm ms/c	-		: 5-9							~/	
Time Total Volume Purget (gal): Origination of the product of the product of the purget (gal): Time Total Volume Purget (gal): Notes Cond matter Parameter Monitoring Notes Cond matter Parameter Monitoring Notes Advance, Odors, Etc.) Advance, Odor, Advance, Advan							1 .	V.			
Trial Volume Purged (gal): Oroundwater Parameter Monitoring Time Teme Constraints Notes 4.3% ± 0.0 TVRB DO DTW Volume (Appearance, Odors, Etc.) ± 3% ± 10 ± 3% ± 10 ± 3% ± 10 ± 3% ± 10 ± 10% ± 10% ± 0%	Tubing Inta	ake Depth:	6.5		Calculated	Purge Volu	ime (gal):	131	Well Condi	tions:	
Groundwater Parameter Monitoring Time TEMP pH ORP COND TURB DO DTW Volume Notes 2.5 Su mV mS/cm NTU mgL feet gallons (Appearance, Oders, Etc.) 03.5 1.2,5 6.57 QL 1.1(% Y.4% 10% 4.03	Starting De			7.62					1		
Time TEMP pH ORP COND TURB DO DTW Volume Notes 1398 120.1 14.0 23% 10% 10% 0.33			<u>U</u> ^		ndwat	er Par	amete	r Moni	toring		
*C SU mV mS/cm NTU mg/L feet galons (Appearance, Odors, Etc.) b35 12,5 6.5% 24,4 1.1% ±3% ±10% ±10% 0.33	Time	TEMP	nH								Notes
± 3% ± 0.1 ± 10 ± 3% ± 10% ± 10% <0.33										(Ар	
135 12,5 6.58 24,4 1.14,5 9.12 1.15 6.58 24,4 1.14,5 9.12 1.15 6.58 0.38 1.11,12		± 3%		± 10	± 3%	± 10%		<0.33			
10.25 1.2.5 6.58 28,4 1.19,5 4.02 1.75 5,85 0,38 intel humor ed to a,5 10.13 1.2.5 4.59 41.7 1.19,6 3.77 1.09 1.31 5.50 10.13 1.2.6 6.64 -75.7 1.19,6 3.77 1.09 1.31 5.50 10.14 1.2.6 6.64 -75.7 1.19,6 3.77 1.09 1.35 5.60 10.35 1.5,6 6.64 -75.7 1.66,75 5.75 1.67 0.45 10.35 1.5,6 1.6,75 1.6,75 1.6,75 1.77 1.7 113 1.10 1.10,00 0.78 1.1 113 1.10 1.10,00 0.78 1.1 113 1.10 1.10 0.78 1.1 113 1.10 1.10 0.78 1.1 1130 1.9,3 1.73 1.75 1.75 1140 1.9,3 1.73 1.75 1.75 1150 1.9,3 1.75 1.75 <td>1035</td> <td>12,5</td> <td>6.57</td> <td>61.2</td> <td>1.186</td> <td>3.04</td> <td>N,TO</td> <td>7.90</td> <td>0,25</td> <td></td> <td></td>	1035	12,5	6.57	61.2	1.186	3.04	N,TO	7.90	0,25		
1443 12.5 4.5 4.7 1.16 3.77 1.09 1.31 5.50 1041 12.6 6.64 -75.7 1.166 3.46 0.69 9.96 0.65 1052 12.6 4.66 -45.5 1.303 2.62 4.65 16.76 0.75 1037 14.66 -45.5 1.303 2.62 4.65 16.76 0.75 113 13.00 0.78 11 14.00 0.78 11 113 13.00 0.78 11 1.000 1.16 1.16 113 13.00 0.77 1.1 1.1 1.1 1.100 1.1 113 13.00 0.77 1.1 1.1 1.100 0.77 1.1 113 13.00 0.77 1.1	1038	12.5	6.58	1	1.195	9.02	1 1	and the second se		inlet	loworpd to A.S.
1041 12.6 6.641 -75.7 1,166 7.46 0,69 9,96 0,65 1052 12.6 6.66 -75.5 10.03 7.62 0.66 0,775 113			6.59	T	LINE	371	103				
US2 12.6 0.6 -15.5 1.203 2.62 0.6 16.6 0.775 U33 10.02 0.73 Well period drs 113 10.02 0.73 Well Nut recovered 123 11.00 0.77 1 124 0.97 1 1 125 0.73 Well Nut recovered 1230 0.73 1 1230 0.75 1 1230 0.75 1 1230 0.75 1 1230 0.75 1 1230 0.75 1 1230 0.75 1 1230 0.75 1 1230 0.75 1 1230 0.75 1 1230 0.75 1 1230 0.75 1 1230 0.75 1 1230 0.75 1 1230 0.75 1 1230 0.75 1 1230 0.75 1 1230 0				1		-			1		
Off Indext of the point of day in the point of the			1 .	-460			1	-			
113 10,02 9,78 Weth Well Net recover 1130 11,00 0,78 11 1204 9,95 0,78 11 1204 9,95 0,78 11 1204 9,95 0,78 11 1204 9,95 0,78 11 1204 9,95 0,78 11 1204 9,95 0,78 11 1204 9,95 0,78 11 1205 1,93 0.78 11 1206 1,93 0.78 11 1207 1,93 0.78 11 1208 1,93 0.78 11 1209 1,93 0.78 11 1209 1,93 0.78 11 1209 1,93 0.78 11 1209 1,93 0.78 11 1209 1,93 1,93 11 1209 1,93 1,93 12 1209 1,93 1,93 1,93 1,93 1209 1,93		120	10,00	1.7.5	1, 10 -	7,62	10			leve	and light
13.0 11.00 0.78 11 12.30 0.95 0.78 11 12.30 1.93 0.78 11 12.30 1.93 0.78 11 12.30 1.93 0.78 11 12.30 1.93 0.78 11 12.30 1.93 0.78 11 12.30 1.93 0.71 11 12.30 1.93 0.71 11 12.30 1.93 0.71 11 12.30 1.93 0.71 11 12.30 1.93 1.93 11 12.30 1.93 1.93 11 12.30 1.93 1.93 11 13.30 1.93 1.93 1.93 13.30 1.93 1.93 1.93 14.30 1.93 1.93 1.93 14.30 1.93 1.93 1.93 14.30 1.93 1.93 1.93 15.30 1.93 1.93 1.93 15.30 1.93 1.								10.00		-	
Image: Solution of the solution								1.			
130 193 193 1 193 193 1 1 193 193 1 1 193 193 1 1 193 193 1 1 193 193 1 1 193 193 1 1 193 193 1 1 193 1 1 1 193 1 1 1 193 1 1 1 193 1 1 1 193 1 1 1 193 1 1 1 193 1 1 1 193 1 1 1 193 1 1 1 1 193 1 1 1 1 193 1 1 1 1 193 1 1 1 1 193 1 1 1 1 193 1 1								1			
Image: Sample Number Sample Time Analytes Sample Containers Preservatives Duplicate (Y/N) Image: Sample Number Sample Time Analytes Sample Containers Preservatives Duplicate (Y/N) Image: Sample Number Sample Time Analytes Sample Containers Preservatives Duplicate (Y/N) Image: Sample Number Sample Containers Preservatives Duplicate (Y/N) Image: Sample Number Sample Containers Preservatives Duplicate (Y/N) Image: Sample Number of Sample Containers Collected: Image: Sample Containers Collected: Image: Sample Containers Collected: Scollection Method: Bailer / Peristatic \Submersible / Other: Image: Sample Containers Collected: Image: Sample Containers Collected:								9.95	the second s		
Sample Collection Information Sample Number Sample Time Analytes Sample Containers Preservatives Duplicate (Y/N) Image: Sample Number Image: Sample Containers Image: Sample Containers Image: Sample Containers Image: Sample Containers Image: Sample Number Image: Sample Containers Image: Sample Co	1230	~						9,93	0.18	17	
Sample Collection Information Sample Number Sample Time Analytes Sample Containers Preservatives Duplicate (Y/N) Image: Sample Number Image: Sample Containers Image: Sample Containers Image: Sample Containers Image: Sample Containers Image: Sample Number Image: Sample Containers Image: Sample Co											
Sample Collection Information Sample Number Sample Time Analytes Sample Containers Preservatives Duplicate (Y/N) Image: Sample Number Image: Sample Containers Image: Sample Containers Image: Sample Containers Image: Sample Containers Image: Sample Number Image: Sample Containers Image: Sample Co											
Sample Collection Information Sample Number Sample Time Analytes Sample Containers Preservatives Duplicate (Y/N) Image: Sample Number Image: Sample Containers Image: Sample Containers Image: Sample Containers Image: Sample Containers Image: Sample Number Image: Sample Containers Image: Sample Co											
Sample Collection Information Sample Number Sample Time Analytes Sample Containers Preservatives Duplicate (Y/N) Image: Sample Number Image: Sample Containers Image: Sample Containers Image: Sample Containers Image: Sample Containers Image: Sample Number Image: Sample Containers Image: Sample Co											
Sample Collection Information Sample Number Sample Time Analytes Sample Containers Preservatives Duplicate (Y/N) Image: Sample Number Image: Sample Containers											
Sample Collection Information Sample Number Sample Time Analytes Sample Containers Preservatives Duplicate (Y/N) Image: Sample Number Image: Sample Containers Image: Sample Containers Image: Sample Containers Image: Sample Containers Image: Sample Number Image: Sample Containers Image: Sample Co											
Sample Collection Information Sample Number Sample Time Analytes Sample Containers Preservatives Duplicate (Y/N) Image: Sample Number Image: Sample Containers											
Sample Collection Information Sample Number Sample Time Analytes Sample Containers Preservatives Duplicate (Y/N) Image: Sample Number Image: Sample Containers Image: Sample Containers Image: Sample Containers Image: Sample Containers Image: Sample Number Image: Sample Containers Image: Sample Co				1	Cosing Vol	umo in Coll	ono: 1" Dior	m = 0.041 m		0.400	
Sample Number Sample Time Analytes Sample Containers Preservatives Duplicate (Y/N) Image: Solid Containers Ima					Casing voi	ume m Gali	ons: i Diar	n = 0.041 g	ai/π, 🖉 Diar	n = 0.163 g	iai/π, 4" Diam = 0.653 gai
Sample Number Sample Time Analytes Sample Containers Preservatives Duplicate (Y/N) Image: Solid Containers Ima				0		0	4! I	£	41		
Total Number of Sample Containers Collected:	Sample	Number	Sample						1		
Collection Method: Bailer (Peristaltic Submersible / Other:	Sample		Sample	e Time	Ana	lytes	Sample C	ontainers	Preser	vatives	Duplicate (Y/N)
Collection Method: Bailer (Peristaltic Submersible / Other:											
Collection Method: Bailer (Peristaltic Submersible / Other:											
Collection Method: Bailer (Peristaltic Submersible / Other:					i.						
Collection Method: Bailer (Peristaltic Submersible / Other:			Π			- 7	L NIA			o	
Purge Water Disposal Method:	Collection	Method: Po	ilor / Porieta	Itic Cub	arcible / Ot	al anticipa periodelegende	I Number o	of Sample (Containers	Collected:	
					ersible / Ut	ner:					
				S-min M.	to an router	ter ware	Guas ini	for Val	N264 9.91	e to	low well volume.

ell ID	MW-18			Project	Number:	01-0410	-S	Sampling D	Date: 2	
otal Dent	h (ft): 16	Been to be along the second			ume in Casi	1 - A resident and the second	to a construction of the	Sampler:	Date: 3-28	
	en Interval (ft	. 11 16		Purge Met			1.342		I and flow-through	
	eter (in): 1): 11-10			n to Water (f	Low-fl	vi v	peristaltic pu	•	n cell,
		S G				1,0	5		-	
	ake Depth:				l Purge Volu		1026	Well Condition	S:	
tarting De	epth to Water	r (ft): 7, (.5	Total Volu	me Purged	(gal):	2		1.	
			Grou	ndwat	ter Par	amete	r Moni	toring		
Time	TEMP	рН	ORP	COND	TURB	DO	DTW	Volume	Notes	
	° C	SU	mV	mS/cm	NTU	mg/L	feet	gallons	(Appearance, O	dors, Etc.)
1.00	± 3%	± 0.1	±10	± 3%	± 10%	± 10%	<0.33			tot and the second second
0152		639	57,0	282,0	41,25	6,46	7.655	()		
Jass	12,3	6,26	56,7	0,548	XIIS	2,51	Atta	0,20		
154	(1.3	6.25	S5.0	0.530	5,80	1.15		0,40		
100	12.3	6.26	552	8538	5,85	0.99	-	0,60		
ocly	12.3	6.27	54)	0.576	5,91	0,78	4			
1007	12,3	(27						0,80		
016			52.8	0.534	6.19	0,67		1,00	ł	
(0 (0	17.3	6.26	12:0	0.130	6,3,2	8.56		1,20		and the second se
						*				
					1					
			Sa		lume in Galle				0.163 gal/ft, 4" Diar	m = 0.653 ga
Sample	Number	Sample			lytes	Sample C		Preservati	/es Dupli	cate (Y/N)
M	w 18	lo	10		and a subject of the state of the	5)	H(L	N	
1.	~ V									,
				A DEFINE X HOLDER	Tota	l Number e	f Sampla C	Containore Coll	actod:	
ollection	Method: Ba	iler / Perista	Itic / Subm	ersible / Of	Construction Designmental Street Street, or other	n number o	a Sample C	Containers Coll	ected:	a menerative constants
A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNE OWNER OW	er Disposal	BURNER BURNER BURNER	BONM			ACCU STOCK - Interpretation	a family and a second			
dditional	Comments:	C) 605 A C =	Colored	uldw.	ic mat	of a las	tol for		during pu	and the second
		ridudo -	1010100	0.00000	C Venela	la min	1156 16	en Nol	aring hr	100

2,5

	BANAL 40					mpling		and some state of the second se	and the second se	
	: MW-19					01-0410	0-S	Samplin	g Date:	3-28
Total Dept	• •		 A statement () a statement () a	Water Vol	ume in Cas	ing (gal): (1, 47519	Sampler:	(5
	en Interval (ft): 15-20		Purge Met	thod:	Low	- Flow			ow-through cell,
	eter (in): 1			End Depth	n to Water (ft): 4	.37	peristaltic	pump	
	ake Depth:	CIA		Calculated	Purge Vol	ume (gal):	1,4256	Well Condi	tions:	
Starting De	epth to Wate	r (ft): ' ठ्र	41	Total Volu	me Purged	(gal): (,50	1		,
			Grou	Indwat	ter Par	amete	r Mon	itoring		
Time	TEMP	рН	ORP	COND	TURB	DO ·	DTW	Volume	and a	Notes
	°C	SU	mV	mS/cm	NTU	mg/L	feet	gallons	(App	earance, Odors, Etc.)
A	± 3%	± 0.1	±10	± 3%	± 10%	± 10%	<0.33			·
3826	(2,7	6.31	10	0,374	61,21	4,72	8.41	6	5	a de la companya de la
(31	12.7	6.32	54,1	0,402	17,82	5'52	-	0,25		
131	12.5	633	34,7	0.408	12.88	1,60	-	0.48		
148	12.5	6.33	27.4	1.417	6.56	1,07		0.65		
146	12.5	6.27	13,6	0,422	461	0,74	<u> </u>	0,80		
1851	12.5	6.29	3,3	0,423	5.14	0,65	-			
2156	12,1		-6,1	0,424	9.21			0.95		
		1,21		<u>`</u>		0,43		1,29		
1000	12,5	630	~7,7	1,427	10:30	0,40	0	1.36		
200	[5.7]	6.76	-1,0	0,423	11,2)	0,3d	~	1.SL	, i	
			19 19							
			* = = .							-
			2.0							
							- 18 - 18 - 18 - 18 - 18 - 18 - 18 - 18		· · · · · · · · · · · · · · · · · · ·	
-	10 .									
		ala y	i.			9				
	exercised at the feature of the	- Company - Stranger						No. 1		
		4 •	0.				the distance of the second		= 0.163 ga	l/ft, 4" Diam = 0.653 ga
Sample	Number	Sample								
MWI	0	1	and an	Ana	ytes	Sample C	ontainers	Preserv	atives	Duplicate (Y/N)
III W	-1	6.00	N .	. <	Nanija 2010. 1)		[-] (1	M
57		N				1				
wart BSI - BRK	and the second		All a sense of the second s				surgering to the statement of			
ollection	Mother d. D.	10.16			Tota	l Number o	of Sample C	ontainers C	ollected:	
	er Disposal	iler / Perista Method:	Trum	ersible / Ot	her:		Sectored Control of Co	in concert (1,1), 17, and Matchild (1,1), 19, 19		menone
	comments:	metriou.	VIN	and a second	Street as a second s					

			Grou	undwa	ter Sai	mpling	Infor	mation		
Well ID :	MW-20			Project	Number:	01-0410	-S	Samplin	g Date:	3/28/24
Total Dept	h (ft): 20	field 1	9.15	Water Vol	ume in Casi	ng (gal):	1.37	Sampler:	INIC	120104
Well Scree	n interval (ft)	: 15-20 J	1-1 /	Purge Met	hod: Low	Flow		Equipment	: YSI and f	low-through cell,
Well Diame	eter (in): 1	/**		End Depth	to Water (f	t): 11.50)	peristaltic	pump	•
Tubing Inta	ke Depth:	8		Calculated	Purge Volu		1.12	Well Condi	itions:	
	epth to Water		1	Total Volu	me Purged			1		
				Indwat	er Par			itoring		
Time	TEMP	рН	ORP	COND	TURB	DO	DTW	Volume		Notes
	°C	SU	mV	mS/cm	NTU	mg/L	feet	gallons	(App	pearance, Odors, Etc.)
	± 3%	± 0.1	± 10	± 3%	± 10%	± 10%	<0.33			
0930	12.8	6.50	71.6	692	1352.14	4.96			gravis	sh-amber cloud
0933	13.2	6.47	30.0	645	640.77	2.81			11	
79310	13.3	1.47	3.2	LAD	39812	2.08		A 25	Clur.	ring up
0929	13.4	1.47	-124	582	78870	1.68			\sum_{λ}	ning up
1942	12.5	147	121	EEE	200.11	1.40		OFT		
MIG	13.5	1 41	2011	500	24223	1.70		0.55	17	
1945	12.1	6.11	-A1.0	234	210.01	1.29	(*****	076	-	
1948	15.7	10.46	-35.2	513	185.30	1.18		0.15	Clea	ar
1961	13.4	6.46	-36.5	496.8	148.46	1.09			20	
954	13,4	6.45	-39.0	482.5	119.02	1.03	1		11	
958	133	1.45	-41.3	410107	88.32	0.96	C Mining gamma (1997)		dea	1-
10(12.4	6.44	-425	4562	74.51	0.91		1.25	1	Y
1004	13.4	6.44	-43.8	455.1	76.75	0.87			11	
1001	12.7	Le. T	19.0	12201	TUITJ	0.01				
							-			
the links										
				Casing Vol	ume in Galle	ons: 1" Dian	n = 0.041 g	al/ft, 2" Dian	n = 0.163 ga	al/ft, 4" Diam = 0.653 gal/ft
				mple	Collec	tion In	forma	tion		
Sample	Number	Sample	e Time	Ana	lytes	Sample C		Preserv	/atives	Duplicate (Y/N)
MW	-20	1015	5	See	CUC	3 DOA	ers	HO	21	\sim
1										
				and an interesting to the second						
	and many instanting to Carl Sec.				and the second se	l Number o	f Sample (Containers (Collected:	5
A REAL PROPERTY AND A REAL	Method: Bai	and the second	and the second se	ersible / Ot	her:	NO.01 Y		Second		
Contract Concerning of Contract of Concerning Concernin	er Disposal I Comments:	6	nin	10.0000						
		1" Wel	11 - car	it +11	(0 11d	tor 10	vel n	ARRICOLL	0 0 4 4 4-	ts while purg
	10 m m 10 - 10 - 10 - 10 - 10 - 10 - 10			1 Jul			101 11	eusur	emen	is white purg

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			Grou	undwa	ter Sa	mpling	Inform	nation			
Well ID	: MW-21	i.		and the second se	and the second se	01-0410		Samplin	g Date:	3-28	1
Total Dept	th (ft): 22	and a support of the second		Water Vol	ume in Casi	ing (gal)0,3	.83	Sampler:		CS CS	1
Nell Scree	en Interval (ft): 17-22		Purge Met		Lunt		Equipment	YSI and flo	ow-through cell,	-
Vell Diam	eter (in): 1			End Depth	n to Water (f))	peristaltic	pump		
Fubing Inta	ake Depth:	Ø	19/19,5	Calculated	l Purge Volu		215	Well Condi	tions:	1	1
Starting De	epth to Wate	r (ft): ເ	2.66	Total Volu	me Purged		+51,2	Q	shhalt	by Shern on	
	(Markense)	Seattle 1		indwat	ter Par	amete	r Moni	toring			
Time	TEMP	рН	ORP	COND	TURB	DO	DTW	Volume		Notes	
	°C	SU	mV	mS/cm	NTU	mg/L	feet	gallons	(App	earance, Odors, Etc.)	
	± 3%	± 0.1	± 10	± 3%	± 10%	± 10%	<0.33		_		
1108	13,6	634	21.8	0,420	21.17	2.40	12,66	and the second se			١,
(11)	13.5	1.34	-19,8	2,435	10.65	1.21	\frown	0.15			
11(4	12,5	6.34	-24.5	3.438	9.45	1.08	-	0,30			
1117	17,5	6.34	-355	0.44 1	6.89	0.84	\frown	0.45			1
120	13,6	6.34	1	0,444	5.10	0.70	-	0.60			1
(122	13.6	6.34		0,450	9.55	22,6		0.75			1
LDR	13.7	6.34	1	0,101	4.43	0.00		2,70			-
1129	(3,7	6.34				1		105			-
	13,7	6.38		0,453	4,95	0.46	-				-
132	1.1	4.500	-63,7	9,454	5.01	0,44		1,20			-
						to s	19.5				
				ļ	ļ						
											1
2							a				1
											1
											1
				Casing Vo	lume in Gall	lons: 1" Diar	m = 0.041 g	al/ft, 2" Dian	n = 0.163 ga	l/ft, 4" Diam = 0.653 gal/ft	
			Sa	ample	Collec	tion In	forma	tion			
Sample	e Number	Sampl	e Time	Ana	lytes	Sample C	Containers	Preserv	/atives	Duplicate (Y/N)	
M	v-2)	11	35	A State of the sta	Statistics we have been as a second	5	7	HU	-	\mathcal{N}]
]
			~	1	With the second second second second	I al Number c	of Sample C	Containers (Collected:		
	Method: Batter Disposal	and the second se		ersible / O	ther:		The space of the s		to be available to a set of the set		-
Contraction of the second section of the second second	Comments:		AND DISCUSSION AND AND ADDRESS AND ADDR		1.1.1)	- w subble quantities and a second state			<u>.</u>	-
	n K	Water		resource	11/64	anuna	1 Col	Hect (Sn	A 9	Aber , in led	
	panereg	51%	Thetas				and the subsch of a strength	A	A James		

Vell Diameter ubing Intake tarting Depr Time	(ft): 15.5 Interval (ft): er (in): 2 e Depth: ~			Water Volu Purge Met End Depth Calculated	to Water (f	ing (gal): (U - F16).97	Samplin Sampler:	ng Date: HVS	3/27/24
Vell Screen Vell Diamete ubing Intake tarting Depr Time	Interval (ft): er (in): 2 e Depth: ~ th to Water TEMP	5.5-15.5	0	Purge Met End Depth Calculated	hod: Lo (to Water (f	U- F10			HVS	
Vell Diameter ubing Intake tarting Depr Time	er (in): 2 e Depth: ~ th to Water TEMP	5.5-15.5	0	End Depth Calculated	to Water (f	0 110			IIVO	
tarting Depr	e Depth: ~ th to Water TEMP	3 (ff): 9.21		Calculated	to Water (f	0 110	1.1	Equipment	: YSI and flo	w-through cell,
Time	th to Water	13 (ft): 9.21			Purgo Vol	^{t):} 9.3	the second se	peristaltic	pump	w-through cell,
Time	ТЕМР	(ft): 9.21		Total Volu	Furge voit	ime (gal):	<i>w</i>	Well Condi	itions:	
Time	ТЕМР				me Purged	(gal):	-	1		
)931p1		and the second se	Grou	the second se	the statement of the stat			toring		
in all	°C	рН	ORP	COND	TURB	DO	DTW	Volume		Notes
in all		SU	mV	mS/cm	NTU	mg/L	feet	gallons	(Appea	arance, Odors, Etc.)
in all	± 3%	± 0.1	± 10	± 3%	± 10%	± 10%	<0.33		March 1 - June 1 - Call	
	12.1	4.42	20411	448.2	68188	5.61	9.35	638880183") - XBurr	CLEON	
0938	123	6.49	214.7	449.7	45.20	3.30	9.35	Canto A. Faltaria	11	
0940	123	6.48	215.7	449.5	30,80	2.109	9.35	0.25	15	
242	12.2	6.48	2167	447.5	12.79	212	9.35		N.	
944	122	6.48	216.0	4429	18.67	1.20	9.310	0.5	ji	
19410	122	10.48	215H	439.3	12210	157	9.36		64	
1948	123	10.48	2112	11200	10.00	121	9.26	، در در در در در استعلی	11	
0950	122	6.49	213.2	410.10	1.112	1.24	2 July			
0952	122	6.48	212.3	ilui d	R 1 1	[t. t.]	9.36	0.8	Clear	2
C all	12.5	i i d	0	414.8	5.20	1.14	9.36		11	
954	12.5	6.48		406.4	11.00	1.06	9.36		11	
956	12:1	6.47		403.5	2.28	1.01	9.36	A Supplication and the P.D.	11	
958	12.1	10.47	209.5		5,99	6.95	9.34	The second se	11	
1000	23	6.47	208.6	4034	4.210	0.92	9.36	1.25	dear	1
									e contractioner	
-+							-			
	2								= 0.163 gal/ft	°, 4" Diam = 0.653 gal/∕l
Sample N	umber	Samala				and the second se	format	A CONTRACTOR		
	20	Sample	Time	Analy		Sample Co		Preserva	atives	Duplicate (Y/N)
MW-	20	1010	,	Seel	00	3 vons	DRIFS	HC	1	Z
								c		
				and the second se	Total	Number of	Sample Co	ontainers Co	ollected	5
		er (Peristalt	ic /Subme	rsible / Oth	er:	or most an end which the second memory of				
	Disposal M	ethod: D	hum			Cherry Control of Cont			an a	
ditional Con	nments:									weeks it have been a set of the s

	and the second		Grou	undwa	ter Sa	mpling	Infor	mation		
Well ID	MW	-24			Number:		+10-5	Comulia	Contraction of the local division of the loc	3/28/24
Total Dept	h (ft): 13.4	5-9-held	11.75	Water Vol	ume in Cas	ing (gal):	0.11	Sampler:	HVS	5/20/21
Well Scree	en Interval (ft)	8.45-	13.65	Purge Met	thod: 3 in	Jell voli	ume s	Equipment		= Elisal through a pa
Well Diam	eter (in):			End Depth	to Water (1	t): 11.72	3	1	peri	= flow throug ce - pump
	ake Depth: 📈			Calculated	l Purge Volu	ume (gal):	1.32	Well Condi	tions:	peans
Starting De	epth to Water	(ft): 9.14		Total Volu	me Purged	(gal):	C.	1		
			Grou	ndwat	er Par	ameter	Moni	itoring		
Time	TEMP	рН	ORP	COND	TURB	DO	DTW	Volume		Notes
	°C ±3%	SU ± 0.1	mV	mS/cm	NTU	mg/L	feet	gallons	(App	pearance, Odors, Etc.)
BRIL		± 0.1	± 10	± 3%	± 10%	± 10%	<0.33			
0816	11.0	4.56	1669	983	34.52	6.62			dea	r, slight petro ode
0818	10.9	6.05	177.2	999	27.38	0.4.37			11	
0820	10.9	10.36	179.8	1022	8.15	3.33	*		11	
0822	10.9	6.37	180.0	1039	5.52	2.65	-s-manual science and statements	0.25	11	
0824	10.9	6.37	178.3	1046	3.58	2.31			к	
082Le	11.0	10.38	175.3	1054	312	2.04		- 3000000000000000000000000000000000000	11	
0828	0.11	10.37	IFIL	1049	4.410	1.84	-		11	
0830	11.0	6.38	168.5	1048	4.94	182		0.5	11	
0000		Q. J.	140.7	1070	1.01-7	1.02		V.J	. ,	
	and the second			-						
						ons: 1" Diam			= 0.163 ga	l/ft, 4" Diam = 0.653 gal/ft
Sample	Number	Sample	1	Anal	را	Sample Co	1	Preserv	atives	Duplicate (Y/N)
MW-	7/1	ACILI	1	-		-		110		
MING	24	0841	ر ا	Seel		3VOAS	BERS	FIC	1	N
					Total	Number of	Sample C	ontainers C	ollected:	5
A CONTRACT OF THE OWNER OF	and a second sec	ler (Peristal	tic/ Subme	rsible / Oth						
and the second s	er Disposal I	and the second se	mum		Supported by Support		apartenda accordiante a		Semicorport Add Street Street Street	
Summer and C	omments:	1" we	11 - 100	t able	10 -	take II	ater	141415	while	putging
Kuni	niha a	Ini-h	it > 2	s well	V olui	ness	appali	M		r y g
))			o j oci	<u> </u>	- upu)	and the second s	1

			Gro	undwa	iter Sa	mpling	Infor	mation			
and interesting to prove the second state	MW-24	D		Project	Number	01-0410	-S	Samplin	g Date:	3/27/24	
otal Depth		an ganta kardan angka ang		Water Vol	ume in Cas	ing (gal):	.44	Sampler:	HVS	-121/24	_
	n Interval (ft)	: 20-25 f	jeld 24.08	Purge Met	thod: Low	Flow			: YSI and f	flow-through cell,	_
/ell Diamet				End Depth	n to Water (f	ft): 13.8	9	peristaltic	pump	,	
ubing Intak		~23			d Purge Volu	ume (gal):		Well Condi	tions:		_
tarting Dep	oth to Water	(ft): 13.4	301057	Total Volu	me Purged	(gal):	1	-			
			Grou	ndwat	ter Par	ameter	Mon	itoring			
Time	° C	pH	ORP	COND	TURB	DO	DTW	Volume		Notes	-
F	± 3%	SU ± 0.1	mV	mS/cm	NTU	mg/L	feet	gallons	(Ap	pearance, Odors, Etc.)	
105	122	1 201	± 10	± 3%	± 10%	± 10%	<0.33				
07	12.2	6.2	133.6	6++	203.41	6.01	_		Sligh	Hy doudy	
UT	13.4	6.42	-6.9	692	133.32	3,49	Constantine and a second second second	6 Martin Statement	11		
109	13.4	6.43	-32.0	10710	87.43	2.57		0.25			\neg
	13.7	10.44	-48.3	654	899 1.1	189				r, slight petro	
113	127	6,44	-54 G	1.28	Gadle	1.01		100	dea	r "	
115	121			0.00	008.40	1.60		0.5	dec	er "	
117	13.7	6.44	-41.0	626	84140	1.47	di mang	· Alternative and an entered	clear		٦
11+	13:7	644	-65.4	1211	868.37	1.34	the second second	-	ara	< 11	
119	13.8	10.44	-69.2	605	870.10	1.21	And the second s	0.75			-
12.1	13.8	6.44	-71.10	599	\$20.62	1.15		VIJ	_Clea	ur	_
123	13.9	Le.44	- 73.3	500	Q1121				dea		
175	129	1		12 14	871.36	1.09			11	1)	
127	2.1	6.44	- 75.0	587	869.82	1.05	-		11	1)	
											1
											+
											+
											_
I											
						ns: 1" Diam : ion Info			= 0.163 gal	/ft, 4" Diam = 0.653 gal/ft	
Sample Nu		Sample		Analy	tes	Sample Cor	ntainers	Preserva	tives	Duplicate (Y/N)	1
MM-31	1D	113	15	See U	00	2 Amber 3 VOAS	5	Hei		N	1
									5		
water and the summer											
action Ma	thed. Daile				Total I	Number of S	ample Co	ontainers Co	llected:	5	
ge Water D	Disposal Me	r / Peristalti	ic Submer	sible / Othe	er:	No.	mart				
tional Com	Conductional problem and an address of the	W.	Roull.	L lug and	what 1	A					
	1	······································	cun r	iake w	urer l	evels	whil	e pur	9109	t	
		10 W 1 M	£						- E B - E	1	¥

			Grou	undwa	ter Sa	mpling	g Infor	mation				
Well ID :	MW-25			Project	Number:	01-0410)-S	Samplin	g Date:	3/27/24		
Total Depth	n (ft): 14 , f	ield 13.	13	Water Vol	ume in Casi	ing (gal):).23	Sampler:	HVS	1/2/1/21		
	n Interval (ft)	: 9-14		Purge Met	hod: ol	-	W	Equipment	YSI and flo	w-through cell,		
Well Diame				End Depth	to Water (f	t): 8.1	3	peristaltic	pump			
	ake Depth: 🔨	X		Calculated	Purge Volu	ume (gal): _	2	Well Condi	tions:			
Starting De	epth to Water	(ft): 8.1	7	Total Volu	me Purged	(gal):	25	1				
and and a	in the state		Grou	ndwat	er Par	amete	r Mon	itoring				
Time	TEMP	рН	ORP	COND	TURB	DO	DTW	Volume		Notes		
	°C ±3%	SU	mV	mS/cm	NTU	mg/L	feet	gallons	(Appe	arance, Odors, Etc.)		
0007	COLUMN TO A COLUMN TO A COLUMN	±0.1	±10	± 3%	± 10%	± 10%	<0.33					
0823	12.0	625	224.8	396.5	74.63		1		clea	r		
0825	11.9	4.2.4	228.3	400.2	73.10	4.83		~	η			
0827	12.1	4.25	230.4	403.2	70.07	4.16	Same 2220222		N	2		
0829	12.1	6.26	231.9	412.5	68.39	5.67	1.000000000000000000000000000000000000	0.25	38			
0831	12.0	10.27	2329	414.3	70.11	3310	· · · · · · · · · · · · · · · · · · ·		ŝđ			
0833	11.9	1,28	2329	41239	73.34	3.08	· · · · ·	Amer 1 12310	4.W			
0835	12.1	10.29	234.1	430.1	58.09	2.85	- AND THE PROPERTY		11			
0837	121	6.30	201	449.5	31.101	2.50	- spece	A				
0839	12.2	4.30	234.4	- 1. V . G.			Canadian and A	9,5	Cloai	à		
				438.10	43.53		ALL CALLER	All communates	į)			
0841	12.2	1.30	<u>v</u> v v	448.6	27.19	2.25	100 - 200)	. Same of the second	ji l			
0843	12.2	12.32	234.5	455.9	17.44	2.10	Observator and Annual	Apartmenter (14			
0845	12.1	6.31	234.5	451.7	14.61	1.93	(gylandian (271-3 22)	0.75	duar			
0847	122	10.23	234.4	457.9	11,91	1.84	ram. Talk	-4600000 - 223	**			
081.19	12.1	6.32	234.3	459.3	9.48	1,79	Patronet P. 19	America 19/14/96/24	64			
0951	12.1	6.32	224.1	1157.10	0.53	1.710	Japan a series pi		63			
-				1			2			a i je		
						1				$(a,b) = -a_{p_{1},p_{2}}^{T}$		
									= 0.163 gal/i	ft, 4" Diam = 0.653 gal/ft		
					Collect	and here . The second state of a last state of the second state of	The support of the local distance of the super-	tion				
Sample		Sample		Anal	ytes	Sample Co		Preserva	atives	Duplicate (Y/N)		
MN1.	MN-25 0900 Gee COU 2 Ampers HCI N											
and the second se		and backware and A space of a						4				
Collection	Method: Bail	er Parietal	lic / Subma	reible / Ott	Total	Number of	f Sample C	ontainers Co	ollected:	5		
a sense a constant of the second	r Disposal N	lethod:	And	na	and the second division of the second divisio		Anner Paralle 1	THOM IS IN A MARKET MARKET				
Additional C	omments:	Water	revel	duter	does	int fi	$+\omega/+$	ubing.	m 1" in	vII		
							0.3					

	Groundwater Sampling Information ell ID : MW-26S Project Number: 01-0410-S Sampling Date: 3/29/24											
Well ID :	MW-26S	;						Samplin	g Date:	3/29/24		
Total Depth	n (ft): 12	field 11.	70	Water Volu	ume in Casiı	ng (gal): 🕥	.74	Sampler:	HUS			
Well Scree	n Interval (ft):	and the second se	10	Purge Met	hod: 1	-FIDU)			ow-through cell,		
Well Diame	eter (in): 2			End Depth	to Water (ff		×	peristaltic	pump			
Tubing Inta	ke Depth: 😞	10		Calculated	Purge Volu	me (gal):)	22	Well Condi	tions:			
Starting De	pth to Water	(ft): 7.45	5	Total Volur	me Purged (gal):)	1				
		1.10		ndwat	er Par	amete	r Moni	toring				
Time	TEMP	рН	ORP	COND	TURB	DO	DTW	Volume		Notes		
	°C	SU	mV	mS/cm	NTU	mg/L	feet	gallons	(Арр	earance, Odors, Etc.)		
	± 3%	± 0.1	± 10	± 3%	± 10%	± 10%	<0.33					
0744	10.9	4.82	166.9	274.2	41.49	8.89	7.50		dear			
0747	10.8	6.54	182.8	260.1	29.07	7.69	7.49		3.1			
0750	10.8	6.46	190.2	257.3	24.16	7.09	7.48	0.25	Y.			
0753	10.8	1,45	194.3	263.4	14.79	10.30	7.49		11			
0756	10.9	6.44	191.2	244.7	14.310	5.92	749	0.5	11			
0759	109	1.45	1973	2193	9.76	550	750		11			
0802	11.0	1.45	198 D	27210	712	514	7.50	0.75	11			
0805	100	1.45	1987	124 8	1.81	12 810	7.50	V.15	11			
0808	10.9	6.45	108 5	2102	5.40	1.00	750		11			
0000	10.9	1 111	190.2	2522	UTIC	4.54	1.00					
0811	10.1	6.76	198.1	282.3	5.11	4.41			i			
		c										
	ļ											
								ļ	1			
				2								
	Casing Volume in Gallons: 1" Diam = 0.041 gal/ft, 2" Diam = 0.163 gal/ft, 4" Diam = 0.653 gal/ft											
					Collec	1		1				
Sample	Number	Sample	e Time	Ana	lytes		ontainers	Preser	vatives	Duplicate (Y/N)		
MW-	26S	082	0	See	COC	3 VOF 2 A	mbers	H	Cí	N		
1												
					Tota	l Number o	of Sample (Containers	Collected:	5		
and the second sec	Method: Ba	and the second se	ltic /Subm	ersible / O	ther:							
Contraction of the local division of the loc	ter Disposal	Method:	num									
Additional	Comments:											

i

			Grou	ndwat	ter Sar	npling	Inform	nation				
Well ID :	MW-27S			Project I	Number:	01-0410	-S	Samplin	g Date:	-29		
Total Depth	n (ft): 12			Water Volu	ime in Casir	ng (gal): 📎	6580	Sampler:	the second s	5		
Well Scree	en Interval (ft):	7-12		Purge Meth		Low fl				v-through cell,		
Well Diame	eter (in): 2			End Depth	to Water (ft	:):		peristaltic	pump			
Tubing Inta	ake Depth:	10		Calculated	Purge Volu	me (gal):	.98	Well Condi				
Starting De	epth to Water	(ft): 7, 0	46		ne Purged (Bolts +	1 ged see	unterion for		
			Grou	ndwat	er Par	amete	r Moni	itoring				
Time	TEMP	рН	ORP	COND	TURB	DO	DTW	Volume		Notes		
	°C	SU	mV	mS/cm	NTU	mg/L	feet	gallons	(Appea	arance, Odors, Etc.)		
755	± 3%	± 0.1	±10	± 3%	±10%	± 10%	<0.33	Ø				
755	11.7	6.70	1	0,275	3.32	5,53	1,96					
528	11,6	6.65	(42.5	OLIM	4.56	3.03	8.02	0,(2				
821	(1,7	6,54	145,1	0.278	7,43	2,11	8,02	0,25				
804	11.6	6.53	145.3	0.279	3,26	1,62	8.02	0.35				
807	11.6	6.53	144.9	6.280	3.47	1.20	8.04	0.56				
oi 8	(1,7	6.52	144,7	0,281	3,64	1,17	8.05	0,60				
813	11,7	6.53	143.7	8.09	0.75							
816	[47	6.53	0.85									
812	11.7	6.53	143,6	0,281	00,00 85,0	8.05	0.95					
822	11.8	6.53	1424	0.284	4.30	0.71	20.8	01,10				
825	11.9	6,83	142,1	686,0	4,27	69,0	20,8	11,25				
828	ilis	6,53	141.2	0,285	4,74	0.62	8.05	11.15				
831	8.17	6.53	191.1	0,285	4.91	0.59	8.05	1 P				
	11,8	1	14017			0.57		1.6				
634	111	6153	14-11	0,285	80,1	10,21	8.05					
					<u> </u>							
	I		Sa	-	lume in Gali				m = 0.163 gal	/ft, 4" Diam = 0.653 gal/ft		
Sampl	le Number	Sampl	e Time	Ana	alytes	Sample	Containers	Preser	vatives	Duplicate (Y/N)		
, M	W-275	083	S	-	Sample Systems		5	140	L	N		
	8						NUMBER OF A STREET STREET					
					Tota	al Number	of Sample	Containers	Collected:			
The Rest of Concession of Concession of Concession, Name	n Method: Ba	A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNE	Contraction of the local division of the loc	nersible / O	ther:							
the second secon	ater Disposal Comments:	Method:	Bran									
		4 1	1+ 1	- nous N								
Sheen	104	well v	powll at	shan Va	1							

			Grou	Indwa	ter Sar	npling	Inform	nation	gen and			
Well ID :	: MW-270)		Project	Number:	01-0410	-S	Sampling Date: 3-23				
Total Dept	h (ft): 21.5			Water Volu	ime in Casii	ng (gal):		Sampler:	(S		
Well Scree	en Interval (ft):	14.5-21.5		Purge Met	hod:			Equipment	: YSI and	flow-through cell,		
Well Diam	eter (in): 2			End Depth	to Water (ff	t):		peristaltic	pump			
Tubing Inta	ake Depth:	18	0	Calculated	Purge Volu	me (gal):		Well Cond	itions:			
Starting De	epth to Water	(ft):C)	Asity	Total Volur	me Purged ((gal):						
				ndwat	er Par	amete	r Moni	toring				
Time	TEMP	рН	ORP	COND	TURB	DO	DTW	Volume]	Notes		
	°C	SU	mV	mS/cm	NTU	mg/L	feet	gallons	(Ap	pearance, Odors, Etc.)		
()-12	± 3%	± 0.1	±10	± 3%	± 10%	± 10%	<0.33					
412	18,5	6,13	130.2	0,243	18.83	3.68	15'01	0,26				
915	12.7	6,11	(03,6	0,243	1293	08.1	(2,02	dila	0.35	(5 3-27)		
918	12.7	6.1)	73.6	0,239	12.52	1,10	12,02	0,55	0,45	(1 3-29		
921	13,5	CIL	55.7	3,136	10,23	07,0	11,99	0.55				
914	13.8	6,12	46.3	5.232	81.0	2,67		0.65				
927	128	6,13	33,1	8 224	7.55	0,56		0.80				
230	13.8	6.14	24,6	0.219	7.82	0,48	12.00					
933	12.9	6,15	20,0	0,216	602	0,45	12.02	1,05				
136	128		13.8	0,213	5,47	0,97	1					
and the second	1 percent	6.16		0,208			1,04	1,20				
939	13.9	6.17	693		4.98	0.37	12.06	1.35				
942	13.8	6.17	5.6	0,206	4,59	0,36	12,06	1,95				
945	(3,2	6.1	318	0,208	4.42	0,35	12,06	1.60				
				0	c							
				Casing Vol	ume in Gall	ons: 1" Diar	n = 0.041 g	al/ft, 2" Diar	m = 0.163 g	gal/ft, 4" Diam = 0.653 gal/ft		
			and an address of the second			tion In	forma	tion				
Sample	e Number	Sample	e Time	Ana	lytes	Sample C	ontainers	Preser	vatives	Duplicate (Y/N)		
Mh	v-270	945				5		HCI		Ν		
					Tota	I Number o	of Sample (Containers	Collected			
STREET, STOLEN ST. CO., ST. CO	Method: Ba	A . If M . A second second decrements into	ltic / Subm	ersible / Of	ther:		and the state of the	a af the state of the sector of the sector of the				
Additional	ter Disposal Comments:	an ag sei ain i ginti ain permikatar ti gita da										
Water :	n volult, F	igtro .	adors,	durina	drainiv	to ar	voult;	, woter	level	in volute to Hillow ni Encourse prival barn		
2011	roll , f	Heaven i	etta	color ,	fited	NN 250 Ji	NO V	v IIg	of obser	red buring purphy		

-2,125

0

			Contraction of the International Contractional		The second se	and the second se	Inform		D 1	1	
/ell ID :	MW-28S			Project I	lumber:	01-0410	-S	Sampling Date: 3/28/24			
otal Depth	n (ft): 12		1	Water Volu		1.	> Fla	Sampler:			
ell Scree	n Interval (ft):	5-12		Purge Meth						w-through cell,	
ell Diame	eter (in): 2				to Water (ft			peristaltic	bump		
ubing Inta	ke Depth:			Calculated	Purge Volu	me (gal): 🤺	. 201	Well Condit	ions:		
tarting De	epth to Water	(ft): 7.31		Total Volur	ne Purged (gal):	l				
	C.		Grou	ndwat	er Para	amete	r Moni	toring			
Time	TEMP	рН	ORP	COND	TURB	DO	DTW	Volume		Notes	
	°C	SU	mV	mS/cm	NTU	mg/L	feet	gallons	(Appe	earance, Odors, Etc.)	
010	± 3%	± 0.1	±10	± 3%	± 10%	± 10%	<0.33		-1		
315	12.0	6:68	29.0	315.1	24.88	7.34	731		clear		
318	11.9	6.43	33.0	309.2	7.44	10.24	7.35		~		
321	11.7	10.03	35.1	303.1	5.54	5.44	+.35		Vi		
324	11.4	6.62	37.2	299.3	2.10	5.48	7.37	0.25	"		
327	11.5	4.43	38.6	294.0	1.56	5.22	7.38		11		
330	11.42	1. 1.2	40.4	295,5	1210	5.097.37		- 11			
338	11.10	10.07	41.3	297.8	128	501	727				
000	11.0	luur	11.7	~1.0	1.20	5.01	1.91				
							ļ				
			Sa	Casing Vo ample					n = 0.163 ga	nl/ft, 4" Diam = 0.653 ga	
Sampl	e Number	Sampl	e Time	Ana	alytes		Containers	Preser	vatives	Duplicate (Y/N)	
MW-	285	13	45	9	ee (0C	3 VOA 2 AM	Nen	H	21	N	
		\sim	~		Tot	al Number	of Sample	Containers	Collected:	5	
Collection	n Method: Ba	And provide the second s	and the second se	and a second	ther:						
	ater Disposal	Method:	min	lactor ****				a sila an an			
Additional	Comments:										

			Grou	Indwat	er Sar	npling	Inform	nation				
Well ID :	MW-28D)		Project I	lumber:	01-0410	-S	Sampling Date: 3-24				
otal Depth	n (ft): 23			Water Volu	me in Casir	ng (gal): 🚗	39632					
Vell Scree	n Interval (ft):	18-23		Purge Meth	and the second se	row t		Equipment:		ow-through cell,	1	
Vell Diame	eter (in): 2			End Depth	to Water (ft): [3.67	peristaltic	pump			
ubing Inta	ke Depth:	50		Calculated	Purge Volu	me (gal):	17ter	Well Condi			1	
Starting De	pth to Water	(ft): 13.3	6 a	Total Volur	ne Purged (gal):	188 1.35	On	e bit	brid ton bib		
		1.2.11		ndwat	er Par	amete		toring				
Time	TEMP	рН	ORP	COND	TURB	DO	DTW	Volume		Notes	1	
	°C	SU	mV	mS/cm	NTU	mg/L	feet	gallons	(App	earance, Odors, Etc.)		
12.00	± 3%	± 0.1	± 10	± 3%	± 10%	± 10%	<0.33				0	
41255	(4,0	6.58	43,1	0,052	16.32	6,67	13.44	6			ľ	
1298	13'4	6.44	51,5	0.049	14,67	5,15	(3,46	0,20			4	
[20]	(3.6	6.37	583	0.051	15.78	4.70	13,50	0,40				
1704	13.5	6.34	61,0	0,053	13,02	3,60	13,82	0,60	Elest	sequests to stop gro	>1V	
1707	12.7	6.35	633	3,386	10.62	3.18	11.25	0.75				
1710	13.6	6.32	63.7	2, 358	10,54	2.97	13.88	0,00			1	
1313	(3,4	6,32	677	0,059	and the second se	2.78	3.60	1,05			1	
1	13,4	6.11	61.8	2.261	1.37	2.0	13.62					
1316						2.52		1,20			-	
13 19	1515	6.30	63,2	2.062	9:23	2:75	12.63	1.35			_	
											_	
				ļ								
	1										1	
				Casing Vo	lume in Gal	lons: 1" Dia	m = 0.041 g	gal/ft, 2" Diai	m = 0.163 g	al/ft, 4" Diam = 0.653 gal/ft	ť	
		1	Sa	ample	Collec	1		1				
Sample	e Number	Sampl	e Time	Ana	alytes	Sample	Containers	Preser	rvatives	Duplicate (Y/N)		
MW -	035	132	22		and the second	-	5	17-6	.)	N		
	N.,											
					Tot	al Number	of Sample	Containers	Collected:			
Collectior	n Method: Ba	ailer / Perista	altic / Subn	nersible / O	ther:							
Purge Wa	ater Disposal	Method:										

	BRIELOO		Gro					mation	1		
Course - 1 manufactor - magazarti - materia	MW-29	D		Project	Number:	: 01-0410)-S	Sampling Date: 3/28/24			
Total Depth		field 24	4.11		ume in Casi	ing (gal):).41				
	n Interval (ft)	20-25		Purge Met	E LIA	UE DIL)	Equipment	: YSI and f	low-through cell,	
Well Diame					n to Water (f	10.1	0	peristaltic	pump		
Tubing Inta	ke Depth:				d Purge Volu		.23	Well Condi	itions:		
Starting De	pth to Water	(ft): 15.0	3	Total Volu	me Purged	(gal):	15	1			
		-	Grou		ter Par	amete	r Moni	itoring			
Time	° C	pH SU	ORP	COND	TURB	DO	DTW	Volume		Notes	
	± 3%	± 0.1	mV ± 10	mS/cm ± 3%	NTU ± 10%	mg/L	feet	gallons	(App	pearance, Odors, Et	
1152	13.1	10.410	52.9	2121	2777	± 10%	<0.33		Theorem 1 and 1 and		
1151	13.5	6.410		2081	221.10	6.14			ampe	rcloudy	
JODA	- lu .l	12.01	56.9	500.1	190.40	3.29			Signt	y amber	
TRUD	13.5	12.29	54.5	308.2	129.11	2.29			clea	r	
1202	15.6	6.27	79.2	311.2	39.27	1.68		0.5	21		
1205	13.5	1027	46.5	31.9	28.35	1.53			1.		
1208	135	6.27	41.7	314.4	18.79	1.35		0.75	11		
1211	13.5	10.27	34.5	31127	1415	1.21			il II		
1214	13.4	6,27	31.7	317.1	8.70	and the second s			11		
1217	124	1, 27	21,9	317.7		1.05					
1220	13.5	1001	20.1	318.4	8.81	112		1 25	11		
1222	12.1	6.27	dd. T	10.4	14.14	0.99		1.25	11		
1223	12.1	le.2t	18.7	319.4	7.92	0.94			11		
1224	13.7	627	15.0	319.3	8.55	0.90	_	1.5	11		
		-									
						ons: 1" Diam			= 0.163 ga	l/ft, 4" Diam = 0.65;	
Sample	Number	Sample	1	Anal		Sample Co	K	Preserv	atives	Duplicate (Y/N	
MW-	MW-29D 1235			Seel	00	2 Amber 3 VOAs	rs	HCI		N	
						- UINS			`		
	and a second				Total	Number of	Sample C	ontainers C	ollected:	5	
	lethod: Bail	er / Peristal	Contraction of the Association o	ersible / Oth	ner:						
		anthod:	DNIM								

			Gro	undwa	ter Sa	mpling	Infor	mation	1			
Well ID	: MW-30					01-0410		Sampling Date: 3/27/24				
Total Dept	th (ft): 25	ing the second		Water Vol	ume in Cas	ing (gal):	.48	Sampler: HVS				
	en Interval (ft)	: 20-25 f	111/241	Purge Met		N-FID	0	Equipmen		low-through cell,		
Well Diam		T		End Depth	to Water (f	t): 15.10	<u> </u>	peristaltic				
Tubing Inta	ake Depth: 🗡	23		Calculated	Purge Volu			Well Cond	litions:			
Starting De	epth to Water	(ft): 12.5	40 1150	Total Volu	me Purged	^{(gal):} 1.5		1				
				Indwat	er Par	amete	r Mon	itoring				
Time	TEMP	рН	ORP	COND	TURB	DO	DTW	Volume	1	Notes		
	° C	SU	mV	mS/cm	NTU	mg/L	feet	gallons	(App	pearance, Odors, Etc.)		
11-5	± 3%	± 0.1	± 10	± 3%	± 10%	± 10%	<0.33					
115+	13.2	6.34	4.5	444.1	308.49	5.87	(m) 331 8 10 10 10 10 10 10 10 10 10 10 10 10 10	Constitution (1997) 2012 (11)	oran	aish-cloudy		
1159	13.8	6.31	8.0	459.6	290.96	3.54		_	11	Slight petro uda		
1201	13.9	le.31	75	456.2	241.41	2.410		0.25	11	ip parto oba		
1202	14.0	1,32	1, 2	4482	317.71	1.911	<u> </u>		H H	1		
1205	14.0	1.27	Lia	442 1	211221					11		
1207	1410	1.22	25	11211	141.7	1.41		-				
1201	14.0	6.52	2.2	451.1	145.50	1.41	Contractive State Ry 2	0,5	11	11		
1204	14.0	6.32	2.0	433.4169.39 1.25 -			· ************************************	Alleger 1777 #317	1. 11			
1211	14.1	6.32	0.3	430.5	140.84	1.14	Nuderic and Section (Section (Section 1))	0.75	11	1)		
1213	14.0	12.32	-1.3	427.8	121.72	1.07	(Theorematics		Clea			
1215	14.0	6.37	-2.8	423.9	97.84	1.00 -	**************************************	1	VITA	ning up		
DIF	14.0	6.32	-4.1	4721	8015	0.001						
1219			P 11.	1122 7	10.00	0.00						
AL	14.1	12.32	-5.4	422.2	62.09	0.90	~		clear,	slight orange h		
1221	14.1	6.32	- 7.0	421.3	52.08	0.85	-	1.25	11	11 0		
	Υ.			Casing Vol	ume in Gallo	ons: 1" Diar	n = 0.041 ga	al/ft, 2" Dian	n = 0.163 ga	al/ft, 4" Diam = 0.653 gal/ft		
	AC.		Sa	mple	Collect	tion In	format	tion				
Sample	Number	Sample	Time	Anal	ytes	Sample Containers		Preservatives		Duplicate (Y/N)		
MW	-30	1230)	See	COC	2 AM	perc	HC	1	N		
						"``)			· N			
		17/2000										
- Control of Control o		~			Total	Number of	f Sample C	ontainers (Collected:	K		
	Method: Bail		tic) Subme	ersible / Otl	ner:							
and	er Disposal M		DN	m								
Additional C	Jomments:	1" well	- C(Uh)	t take	Water	levels	while	purgin	g			

APPENDIX B

ANALYTICAL LABORATORY REPORTS



April 9, 2024

Tom Commarata G-Logics an Atlas Geosciences NW Company 40 2nd Avenue SE Issaquah, WA 98027-3452

Re: Analytical Data for Project 01-0410-S Laboratory Reference No. 2403-425

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on March 29, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures



Date of Report: April 9, 2024 Samples Submitted: March 29, 2024 Laboratory Reference: 2403-425 Project: 01-0410-S

Case Narrative

Samples were collected on March 27, 28, and 29, 2024 and received by the laboratory on March 29, 2024. They were maintained at the laboratory at a temperature of 2° C to 6° C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

Matrix: Water Units: ug/L (ppb)

0 (11)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-25					
Laboratory ID:	03-425-01					
Benzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Toluene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
o-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Gasoline	ND	100	NWTPH-Gx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	94	65-122				
Client ID:	MW-23					
Laboratory ID:	03-425-02					
Benzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Toluene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
o-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Gasoline	ND	100	NWTPH-Gx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	89	65-122				
Client ID:	MW-24D					
Laboratory ID:	03-425-03					
Benzene	1.4	1.0	EPA 8021B	4-8-24	4-8-24	
Toluene	1.8	1.0	EPA 8021B	4-8-24	4-8-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-8-24	4-8-24	
m,p-Xylene	5.5	1.0	EPA 8021B	4-8-24	4-8-24	
o-Xylene	ND	1.0	EPA 8021B	4-8-24	4-8-24	
Gasoline	150	100	NWTPH-Gx	4-8-24	4-8-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	90	65-122				



Matrix: Water Units: ug/L (ppb)

0 (11 /				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-30					
Laboratory ID:	03-425-04					
Benzene	2.1	1.0	EPA 8021B	4-3-24	4-3-24	
Toluene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
o-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Gasoline	ND	100	NWTPH-Gx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	89	65-122				
Client ID:	MW-24					
Laboratory ID:	03-425-06					
Benzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Toluene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
o-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Gasoline	ND	100	NWTPH-Gx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	88	65-122				
Client ID:	MW-19					
Laboratory ID:	03-425-07					
Benzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Toluene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
o-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Gasoline	ND	100	NWTPH-Gx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	88	65-122				



Matrix: Water Units: ug/L (ppb)

0 (11 /				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-18					
Laboratory ID:	03-425-08					
Benzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Toluene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
o-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Gasoline	ND	100	NWTPH-Gx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	87	65-122				
Client ID:	MW-20					
Laboratory ID:	03-425-09					
Benzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Toluene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
o-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Gasoline	ND	100	NWTPH-Gx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	90	65-122				
Client ID:	MW-21					
Laboratory ID:	03-425-10					
Benzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Toluene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
o-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Gasoline	ND	100	NWTPH-Gx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	87	65-122				



Matrix: Water Units: ug/L (ppb)

•				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-29D					
Laboratory ID:	03-425-11					
Benzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Toluene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
o-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Gasoline	ND	100	NWTPH-Gx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	89	65-122				
Client ID:	MW-28D					
Laboratory ID:	03-425-12					
Benzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Toluene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
o-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Gasoline	ND	100	NWTPH-Gx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	89	65-122				
Client ID:	MW-28S					
Laboratory ID:	03-425-13					
Benzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Toluene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
o-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Gasoline	ND	100	NWTPH-Gx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	88	65-122				



6

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-26S					
Laboratory ID:	03-425-14					
Benzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Toluene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
o-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Gasoline	ND	100	NWTPH-Gx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	90	65-122				
Client ID:	MW-27S					
Laboratory ID:	03-425-15					
Benzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Toluene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
o-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Gasoline	ND	100	NWTPH-Gx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	88	65-122				
Client ID:	MW-27D					
Laboratory ID:	03-425-16					
Benzene	2.2	1.0	EPA 8021B	4-8-24	4-8-24	
Toluene	ND	1.0	EPA 8021B	4-8-24	4-8-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-8-24	4-8-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-8-24	4-8-24	
o-Xylene	ND	1.0	EPA 8021B	4-8-24	4-8-24	
Gasoline	ND	100	NWTPH-Gx	4-8-24	4-8-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	85	65-122				



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Matrix: Water Units: ug/L (ppb)

0 (11 /				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	TW-2					
Laboratory ID:	03-425-17					
Benzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Toluene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
o-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Gasoline	ND	100	NWTPH-Gx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	85	65-122				
Client ID:	IP-5					
Laboratory ID:	03-425-18					
Benzene	1300	50	EPA 8021B	4-3-24	4-3-24	
Toluene	910	50	EPA 8021B	4-3-24	4-3-24	
Ethylbenzene	780	50	EPA 8021B	4-3-24	4-3-24	
m,p-Xylene	1700	50	EPA 8021B	4-3-24	4-3-24	
o-Xylene	310	50	EPA 8021B	4-3-24	4-3-24	
Gasoline	17000	5000	NWTPH-Gx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	84	65-122				
Client ID:	IP-4					
Laboratory ID:	03-425-19					
Benzene	23	1.0	EPA 8021B	4-8-24	4-8-24	
Toluene	7.6	1.0	EPA 8021B	4-8-24	4-8-24	
Ethylbenzene	2900	50	EPA 8021B	4-3-24	4-3-24	
m,p-Xylene	5900	100	EPA 8021B	4-4-24	4-4-24	
o-Xylene	130	50	EPA 8021B	4-3-24	4-3-24	
Gasoline	55000	5000	NWTPH-Gx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	86	65-122				



Matrix: Water Units: ug/L (ppb)

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
TW-3					
03-425-20					
1600	50	EPA 8021B	4-3-24	4-3-24	
20	1.0	EPA 8021B	4-3-24	4-3-24	
1300	50	EPA 8021B	4-3-24	4-3-24	
950	50	EPA 8021B	4-3-24	4-3-24	
21	1.0	EPA 8021B	4-3-24	4-3-24	
9400	100	NWTPH-Gx	4-3-24	4-3-24	
Percent Recovery	Control Limits				
116	65-122				
Dup-1					
03-425-21					
1400	50	EPA 8021B	4-3-24	4-3-24	
940	50	EPA 8021B	4-3-24	4-3-24	
820	50	EPA 8021B	4-3-24	4-3-24	
1700	50	EPA 8021B	4-3-24	4-3-24	
320	50	EPA 8021B	4-3-24	4-3-24	
18000	5000	NWTPH-Gx	4-3-24	4-3-24	
Percent Recovery	Control Limits				
84068	65-122				
	TW-3 03-425-20 1600 20 1300 950 21 9400 Percent Recovery 116 Dup-1 03-425-21 1400 940 820 1700 320 18000 Percent Recovery	TW-3 03-425-20 1600 50 20 1.0 1300 50 950 50 21 1.0 9400 100 Percent Recovery Control Limits 116 65-122 Dup-1 03-425-21 1400 50 940 50 320 50 1700 50 320 500 18000 5000	TW-3 03-425-20 1600 50 EPA 8021B 20 1.0 EPA 8021B 1300 50 EPA 8021B 950 50 EPA 8021B 9100 50 EPA 8021B 9400 1.0 EPA 8021B 9400 100 NWTPH-Gx Percent Recovery Control Limits 65-122 116 65-122 65-122 Dup-1 03-425-21 50 EPA 8021B 940 50 EPA 8021B 820 940 50	Result PQL Method Prepared TW-3 03-425-20	Result PQL Method Prepared Analyzed TW-3



GASOLINE RANGE ORGANICS/BTEX NWTPH-Gx/EPA 8021B QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

• • • •				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0403W1					
Benzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Toluene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
o-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Gasoline	ND	100	NWTPH-Gx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	91	65-122				
Laboratory ID:	MB0403W2					
Benzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Toluene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
o-Xylene	ND	1.0	EPA 8021B	4-3-24	4-3-24	
Gasoline	ND	100	NWTPH-Gx	4-3-24	4-3-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	90	65-122				
Laboratory ID:	MB0404W1					
Benzene	ND	1.0	EPA 8021B	4-4-24	4-4-24	
Toluene	ND	1.0	EPA 8021B	4-4-24	4-4-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-4-24	4-4-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-4-24	4-4-24	
o-Xylene	ND	1.0	EPA 8021B	4-4-24	4-4-24	
Gasoline	ND	100	NWTPH-Gx	4-4-24	4-4-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	89	65-122				
Laboratory ID:	MB0408W1					
Benzene	ND	1.0	EPA 8021B	4-8-24	4-8-24	
Toluene	ND	1.0	EPA 8021B	4-8-24	4-8-24	
Ethylbenzene	ND	1.0	EPA 8021B	4-8-24	4-8-24	
m,p-Xylene	ND	1.0	EPA 8021B	4-8-24	4-8-24	
o-Xylene	ND	1.0	EPA 8021B	4-8-24	4-8-24	
Gasoline	ND	100	NWTPH-Gx	4-8-24	4-8-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	87	65-122				



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GASOLINE RANGE ORGANICS/BTEX NWTPH-Gx/EPA 8021B QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

					Source	Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Reco	overy	Limits	RPD	Limit	Flage
DUPLICATE											
Laboratory ID:	03-42	25-01									
	ORIG	DUP									
Benzene	ND	ND	NA	NA		Ν	IA	NA	NA	30	
Toluene	ND	ND	NA	NA		Ν	IA	NA	NA	30	
Ethylbenzene	ND	ND	NA	NA		Ν	IA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA		Ν	IA	NA	NA	30	
o-Xylene	ND	ND	NA	NA		N	IA	NA	NA	30	
Gasoline	ND	ND	NA	NA		Ν	IA	NA	NA	30	
Surrogate:											
Fluorobenzene						94	83	65-122			
Laboratory ID:	03-42	25-02									
	ORIG	DUP									
Benzene	ND	ND	NA	NA		Ν	IA	NA	NA	30	
Toluene	ND	ND	NA	NA		Ν	IA	NA	NA	30	
Ethylbenzene	ND	ND	NA	NA		Ν	IA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA		Ν	IA	NA	NA	30	
o-Xylene	ND	ND	NA	NA		N	IA	NA	NA	30	
Gasoline	ND	ND	NA	NA		Ν	IA	NA	NA	30	
Surrogate:											
Fluorobenzene						89	88	65-122			
SPIKE BLANKS											
Laboratory ID:	SB04	03W1									
	SB	SBD	SB	SBD		SB	SBD				
Benzene	50.1	54.0	50.0	50.0		100	108	81-118	7	12	
Toluene	47.4	51.3	50.0	50.0		95	103	82-119	8	12	
Ethylbenzene	47.5	51.2	50.0	50.0		95	102	81-118	7	12	
m,p-Xylene	46.9	50.4	50.0	50.0		94	101	82-118	7	12	
o-Xylene	47.6	51.1	50.0	50.0		95	102	81-119	7	11	
Surrogate:											
Fluorobenzene						92	91	65-122			



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GASOLINE RANGE ORGANICS NWTPH-Gx

Matrix: Product Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	IP-7-Product					
Laboratory ID:	03-425-05					
Gasoline	740000	23000	NWTPH-Gx	4-4-24	4-4-24	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene		65-126				S



GASOLINE RANGE ORGANICS NWTPH-Gx QUALITY CONTROL

Matrix: Product Units: mg/kg (ppm)

					Date	Date)	
Analyte	Result	PQL	Me	ethod	Prepared	Analyz	ed	Flags
METHOD BLANK								
Laboratory ID:	MB0404S1							
Gasoline	ND	5.0	NWT	TPH-Gx	4-4-24	4-4-2	4	
Surrogate:	Percent Recovery	/ Control Limi	its					
Fluorobenzene	90	65-126						
			Source	Percent	Recovery		RPD	
Analyte	Result	Spike Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE								
Laboratory ID:	03-425-05							
	ORIG DUP							
Gasoline	744000 707000	NA NA		NA	NA	5	30	
Surrogate:								
Fluorobenzene					65-126			S,S



Matrix: Water Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-25			-	-	
_aboratory ID:	03-425-01					
Diesel Range Organics	ND	0.14	NWTPH-Dx	4-2-24	4-2-24	
ube Oil Range Organics	ND	0.22	NWTPH-Dx	4-2-24	4-2-24	
Surrogate:	Percent Recovery	Control Limits				
p-Terphenyl	70	50-150				
Client ID:	MW-23					
_aboratory ID:	03-425-02					
Diesel Range Organics	ND	0.14	NWTPH-Dx	4-2-24	4-2-24	
ube Oil Range Organics	ND	0.22	NWTPH-Dx	4-2-24	4-2-24	
Surrogate:	Percent Recovery	Control Limits	· · · · ·			
o-Terphenyl	73	50-150				
Client ID:	MW-24D					
Laboratory ID:	03-425-03	a / =				
Diesel Range Organics	ND	0.15	NWTPH-Dx	4-2-24	4-2-24	
ube Oil Range Organics	ND	0.21	NWTPH-Dx	4-2-24	4-2-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	68	50-150				
Client ID:	MW-30					
Laboratory ID:	03-425-04					
Diesel Range Organics	ND	0.13	NWTPH-Dx	4-2-24	4-2-24	
_ube Oil Range Organics	ND	0.21	NWTPH-Dx	4-2-24	4-2-24	
Surrogate:	Percent Recovery	Control Limits				
p-Terphenyl	126	50-150				
Client ID:	MW-30					
_aboratory ID:	03-425-04					
Diesel Range Organics	ND	0.21	NWTPH-Dx	4-2-24	4-2-24	X2
ube Oil Range Organics	ND	0.21	NWTPH-Dx	4-2-24	4-2-24	X2
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	120	50-150				
Client ID:	MW-24					
	03-425-06					
aboratory ID.						
		0 13	NW/TPH_Dv	4-2-21	<u>4-</u> 2-21	
Diesel Range Organics	0.19	0.13 0.21	NWTPH-Dx	4-2-24 4-2-24	4-2-24 4-2-24	
Diesel Range Organics _ube Oil Range Organics	0.19 0.46	0.21	NWTPH-Dx NWTPH-Dx	4-2-24 4-2-24	4-2-24 4-2-24	
Laboratory ID: Diesel Range Organics Lube Oil Range Organics Surrogate: o-Terphenyl	0.19					



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Matrix: Water Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-24	-		•		Ŭ
Laboratory ID:	03-425-06					
Diesel Range Organics	ND	0.21	NWTPH-Dx	4-2-24	4-2-24	X2
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	4-2-24	4-2-24	X2
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	97	50-150				
Client ID:	MW-19					
Laboratory ID:	03-425-07					
Diesel Range Organics	ND	0.15	NWTPH-Dx	4-2-24	4-2-24	
_ube Oil Range Organics	ND	0.24	NWTPH-Dx	4-2-24	4-2-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	95	50-150				
Client ID:	MW-18					
Laboratory ID:	03-425-08	0.40				
Diesel Range Organics	ND	0.18	NWTPH-Dx	4-2-24	4-2-24	
ube Oil Range Organics	ND	0.28	NWTPH-Dx	4-2-24	4-2-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	97	50-150				
Client ID:	MW-20					
Laboratory ID:	03-425-09					
Diesel Range Organics	ND	0.13	NWTPH-Dx	4-2-24	4-2-24	
ube Oil Range Organics	0.22	0.21	NWTPH-Dx	4-2-24	4-2-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	96	50-150				
Client ID:	MW-21					
Laboratory ID:	03-425-10					
Diesel Range Organics	0.18	0.17	NWTPH-Dx	4-2-24	4-2-24	
Lube Oil Range Organics	0.18	0.17	NWTPH-Dx NWTPH-Dx	4-2-24 4-2-24	4-2-24 4-2-24	
				4-2-24	4-2-24	
Surrogate:	Percent Recovery 94	Control Limits				
o-Terphenyl	94	50-150				
Client ID:	MW-29D					
Laboratory ID:	03-425-11					
Diesel Range Organics	ND	0.14	NWTPH-Dx	4-2-24	4-2-24	
Lube Oil Range Organics	ND	0.22	NWTPH-Dx	4-2-24	4-2-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	101	50-150				
		00 100				



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Matrix: Water Units: mg/L (ppm)

Flags	Date Analyzed	Date Prepared	Method	PQL	Result	Analyte	
		•			MW-28D	Client ID:	
					03-425-12	Laboratory ID:	
	4-2-24	4-2-24	NWTPH-Dx	0.15	0.18	Diesel Range Organics	
	4-2-24	4-2-24	NWTPH-Dx	0.24	0.98	Lube Oil	
				Control Limits	Percent Recovery	Surrogate:	
				50-150	101	o-Terphenyl	
					MW-28S	Client ID:	
					03-425-13	Laboratory ID:	
	4-2-24	4-2-24	NWTPH-Dx	0.14	ND	Diesel Range Organics	
	4-2-24	4-2-24	NWTPH-Dx	0.23	ND	_ube Oil Range Organics	
				Control Limits	Percent Recovery	Surrogate:	
				50-150	103	o-Terphenyl	
					MW-26S	Client ID:	
				a 15	03-425-14	Laboratory ID:	
	4-2-24	4-2-24	NWTPH-Dx	0.13	ND	Diesel Range Organics	
	4-2-24	4-2-24	NWTPH-Dx	0.21	ND	_ube Oil Range Organics	
				Control Limits	Percent Recovery	Surrogate:	
				50-150	96	o-Terphenyl	
					MW-27S	Client ID:	
					03-425-15	Laboratory ID:	
	4-2-24	4-2-24	NWTPH-Dx	0.17	ND	Diesel Range Organics	
	4-2-24	4-2-24	NWTPH-Dx	0.28	ND	_ube Oil Range Organics	
				Control Limits	Percent Recovery	Surrogate:	
				50-150	90	o-Terphenyl	
				00 100	00		
					MW-27D	Client ID:	
					03-425-16	_aboratory ID:	
	4-2-24	4-2-24	NWTPH-Dx	0.16	0.22	Diesel Range Organics	
	4-2-24	4-2-24	NWTPH-Dx	0.25	ND	ube Oil Range Organics	
				Control Limits	Percent Recovery	Surrogate:	
				50-150	89	o-Terphenyl	
					TW-2	Client ID:	
	4-2-24	4-2-24		0 14			
						5 5	
	7-2-27	7-2-27					
				50-750	03	o-Terphenyl	
	4-2-24 4-2-24	4-2-24 4-2-24	NWTPH-Dx NWTPH-Dx	0.14 0.22 Control Limits 50-150	TW-2 03-425-17 ND ND Percent Recovery 83	Client ID: Laboratory ID: Diesel Range Organics Lube Oil Range Organics Surrogate: o-Terphenyl	



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Matrix: Water Units: mg/L (ppm)

onits. mg/L (ppm)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	IP-5			•		
Laboratory ID:	03-425-18					
Diesel Range Organics	ND	1.8	NWTPH-Dx	4-2-24	4-2-24	M1,U1
Lube Oil Range Organics	0.22	0.21	NWTPH-Dx	4-2-24	4-2-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	65	50-150				
Client ID:	IP-4					
Laboratory ID:	03-425-19					
Diesel Range Organics	ND	6.1	NWTPH-Dx	4-2-24	4-2-24	M1,U1
Lube Oil	0.53	0.24	NWTPH-Dx	4-2-24	4-2-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	99	50-150				
Client ID:	TW-3					
Laboratory ID:	03-425-20					
Diesel Range Organics	ND	2.8	NWTPH-Dx	4-4-24	4-5-24	M1,U1
Lube Oil Range Organics	0.65	0.17	NWTPH-Dx	4-4-24	4-5-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	77	50-150				
Client ID:	Dup-1					
Laboratory ID:	03-425-21					
Diesel Range Organics	ND	1.5	NWTPH-Dx	4-2-24	4-2-24	M1,U1
Lube Oil Range Organics	0.37	0.24	NWTPH-Dx	4-2-24	4-2-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	52	50-150				
,	-					



DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx QUALITY CONTROL

Matrix: Water Units: mg/L (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0402W1					
Diesel Range Organics	ND	0.10	NWTPH-Dx	4-2-24	4-2-24	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	4-2-24	4-2-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	102	50-150				
Laboratory ID:	MB0402W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	4-2-24	4-2-24	X2
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	4-2-24	4-2-24	X2
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	110	50-150				
Laboratory ID:	MB0404W1					
Diesel Range Organics	ND	0.10	NWTPH-Dx	4-4-24	4-4-24	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	4-4-24	4-4-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	58	50-150				



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DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx QUALITY CONTROL

Matrix: Water Units: mg/L (ppm)

• • • • •					Source	Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Reco	overy	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	03-42	25-04									
	ORIG	DUP									
Diesel Range	ND	ND	NA	NA		N	IA	NA	NA	40	
Lube Oil Range	ND	ND	NA	NA		N	IA	NA	NA	40	
Surrogate:											
o-Terphenyl						126	114	50-150			
Laboratory ID:	SB04	02W1									
	ORIG	DUP									
Diesel Fuel #2	0.394	0.385	NA	NA		NA		NA	2	40	
Surrogate:											
o-Terphenyl						87	71	50-150			
Laboratory ID:	SB04	02W1									
	ORIG	DUP									
Diesel Fuel #2	0.441	0.349	NA	NA		Ν	IA	NA	23	40	X2
Surrogate:											
o-Terphenyl						93	75	50-150			
Laboratory ID:	SB04	04W1									
	ORIG	DUP									
Diesel Fuel #2	0.408	0.465	NA	NA		NA		NA	13	40	
Surrogate:											
o-Terphenyl						97	103	50-150			



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Matrix: Product Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IP-7-Product					
Laboratory ID:	03-425-05					
Diesel Range Organics	ND	160000	NWTPH-Dx	4-1-24	4-1-24	M1,U1
Lube Oil Range Organics	ND	100000	NWTPH-Dx	4-1-24	4-1-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl		50-150				S



DIESEL AND HEAVY OIL RANGE ORGANICS NWTPH-Dx QUALITY CONTROL

Matrix: Product Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0401P1					
Diesel Range Organics	ND	25	NWTPH-Dx	4-1-24	4-1-24	
Lube Oil Range Organics	ND	50	NWTPH-Dx	4-1-24	4-1-24	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	99	50-150				

				Source	Perce	ent	Recovery		RPD	
Res	sult	Spike Level		Result	Recov	ery	Limits	RPD	Limit	Flags
SB04	01P1									
ORIG	DUP									
96.8	95.8	NA	NA		NA		NA	1	40	
					100	99	50-150			
	SB04 ORIG		SB0401P1 ORIG DUP	SB0401P1 ORIG DUP	ResultSpike LevelResultSB0401P1ORIGDUP	ResultSpike LevelResultRecovSB0401P1ORIGDUP96.895.8NANA	ResultSpike LevelResultRecoverySB0401P1ORIGDUP96.895.8NANA	ResultSpike LevelResultRecoveryLimitsSB0401P1ORIGDUP96.895.8NANANA	ResultSpike LevelResultRecoveryLimitsRPDSB0401P1ORIGDUP96.895.8NANANA1	ResultSpike LevelResultRecoveryLimitsRPDLimitSB0401P1ORIGDUP96.895.8NANANANA140



VOLATILE ORGANICS EPA 8260D

Matrix: Product Units: mg/kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	IP-7-Product					
Laboratory ID:	03-425-05					
Methyl t-Butyl Ether	ND	89	EPA 8260D	4-2-24	4-2-24	
Benzene	310	89	EPA 8260D	4-2-24	4-2-24	
1,2-Dichloroethane	ND	89	EPA 8260D	4-2-24	4-2-24	
Toluene	8700	450	EPA 8260D	4-2-24	4-2-24	
1,2-Dibromoethane	ND	89	EPA 8260D	4-2-24	4-2-24	
Ethylbenzene	14000	89	EPA 8260D	4-2-24	4-2-24	
m,p-Xylene	58000	360	EPA 8260D	4-2-24	4-2-24	
o-Xylene	16000	89	EPA 8260D	4-2-24	4-2-24	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	106	75-130				
Toluene-d8	100	78-128				
4-Bromofluorobenzene	93	71-130				



VOLATILE ORGANICS EPA 8260D QUALITY CONTROL

Matrix: Product Units: mg/kg

onits. mg/kg				Date	Date		
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags	
METHOD BLANK							
Laboratory ID:	MB0402P1						
Methyl t-Butyl Ether	ND	0.050	EPA 8260D	4-2-24	4-2-24		
Benzene	ND	0.050	EPA 8260D	4-2-24	4-2-24		
1,2-Dichloroethane	ND	0.050	EPA 8260D	4-2-24	4-2-24		
Toluene	ND	0.25	EPA 8260D	4-2-24	4-2-24		
1,2-Dibromoethane	ND	0.050	EPA 8260D	4-2-24	4-2-24		
Ethylbenzene	ND	0.050	EPA 8260D	4-2-24	4-2-24		
m,p-Xylene	ND	0.10	EPA 8260D	4-2-24	4-2-24		
o-Xylene	ND	0.050	EPA 8260D	4-2-24	4-2-24		
Surrogate:	Percent Recovery	Control Limits					
Dibromofluoromethane	99	75-130					
Toluene-d8	97	78-128					
4-Bromofluorobenzene	95	71-130					

					Pe	rcent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB04	02P1								
	SB	SBD	SB	SBD	SB	SBD				
Methyl t-Butyl Ether	0.0512	0.0509	0.0500	0.0500	102	102	73-125	1	17	
Benzene	0.0449	0.0458	0.0500	0.0500	90	92	80-122	2	18	
1,2-Dichloroethane	ethane 0.0508		0.0500	0.0500	102	103	75-124	2	15	
Toluene	0.0510	0.0507	0.0500	0.0500	102	101	80-120	1	18	
1,2-Dibromoethane	0.0542	0.0527	0.0500	0.0500	108	105	80-122	3	20	
Ethylbenzene	0.0518	0.0519	0.0500	0.0500	104	104	80-120	0	15	
m,p-Xylene	0.103	0.103	0.100	0.100	103	103	80-120	0	15	
o-Xylene	0.0528	0.0523	0.0500	0.0500	106	105	80-120	1	15	
Surrogate:										
Dibromofluoromethane					105	106	75-130			
Toluene-d8					102	102	78-128			
4-Bromofluorobenzene					99	99	71-130			





Data Qualifiers and Abbreviations

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1 Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 Sample extract treated with a silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



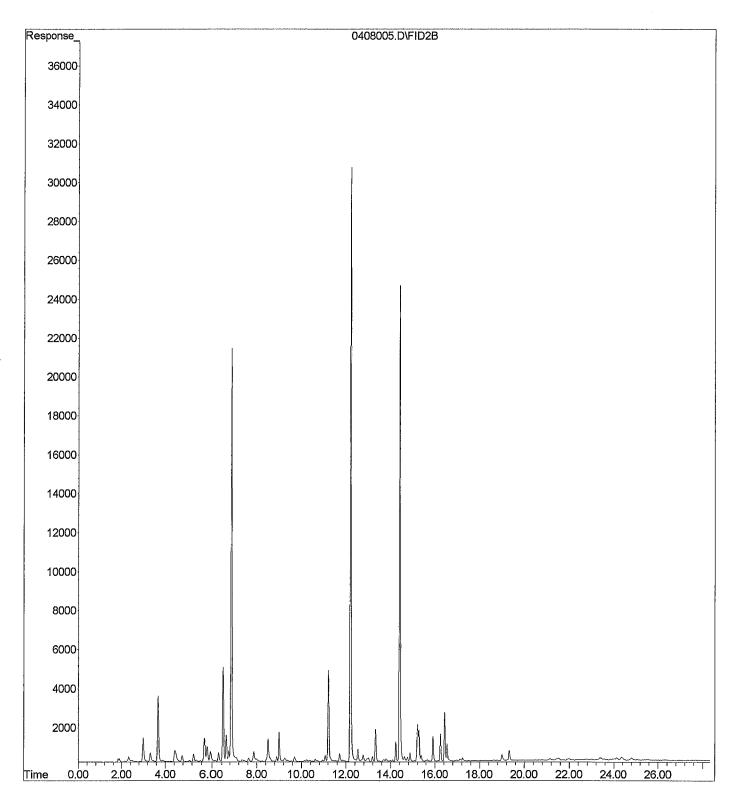
OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

Reviewed/Date	Received	Relinquished	Received Nindulli Pull	Relinquished	Received	Relinquished Acumatishor	Signature	10 MW-21	9 MM-20	81-MM 8	7 MW-10	6 MM-24	5 IP-7-Product	4 MW-30	3 MM-24D	2 MW-23	1 MM-25	Lab ID Sample Identification	Sampled by: HVS/CES	Tom Cammarata	But Name: But Name: But Name: But Name: But Name: But Name:	S-01+0-10	AHOS CRO NW (G-LOGICS	An 14 Ph	Environmental Inc.
Reviewed/Date			Kell	Mar 191	4/0hu.	Attas Bro Nu	Company	× 1135 × 5	1015 5	1010	1 0908 1 5	3/28/24 0840 GW 5	V 1258 Product 2	1230 4 5	1135 5	1 1010 1 5	3/27/24 0900 GW 5	1 1 1 1 1	200	ontain	Standard (7-Bays)	2 Days 3 Days	Same Day	Turnaround Request (in working days) (Check One)	Chain of C
		Oam Lanato	-	CO 10/ 10/07/2	3/26/24 14/52	1 3/29/24 1452	Date / Time	X			X				XX	XX		NWTP NWTP Volatile Haloge	H-Gx/E H-Gx H-Dx (es 8260 enated	BTEX (8 SG Clea) Volatile	021 🙀 8 an-up 🗍 s 8260 ers Only))		Laboratory Number:	Custody
Chromatograms with final report 🕅 Electronic Data Deliverables (EDDs)	Data Package: Standard 💢 Level III 🗆 Level IV 🗆			1.2-Dichloroethane by 8240D	ner, 1,2-Dibroma	* IP-7-Product : BTEX, Methyl butyl	Comments/Special Instructions											(with ld PAHs a PCBs Organd Organd Chlorin Total F Total M TCLP I HEM (d	bw-leve 3270/S 8082 bochlori pophosp anated A CCRA N ITCA N ITCA N ITCA N ITCA N ITCA N ITCA N ITCA N	ihorus F icid Her letals /letals grease) - Dx) -level) icides 80 Pesticides bicides 1664	8151 TH (560	03-425	Page of

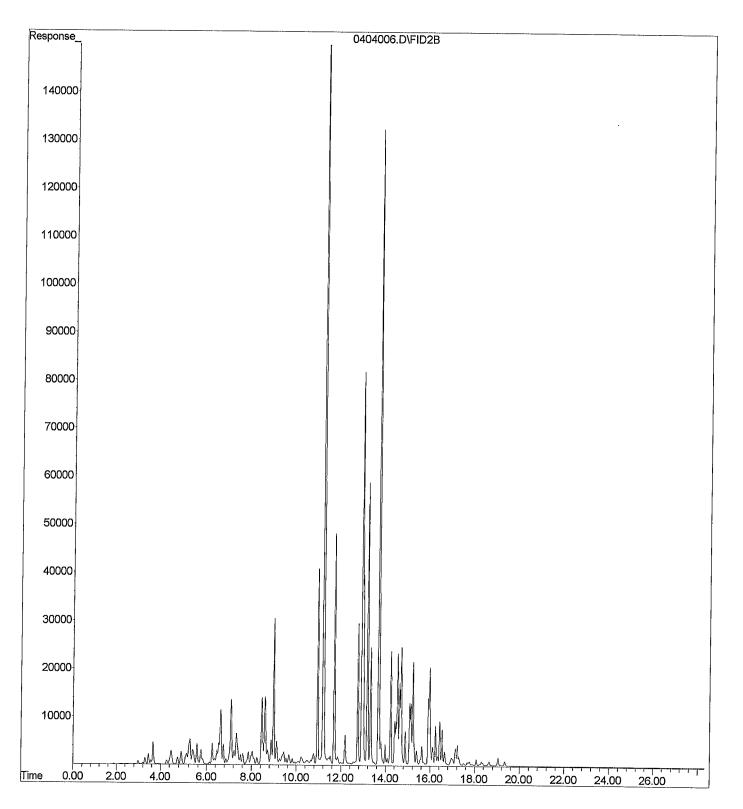
Reviewed/Date	Received	Relinquished	Received	Relinquished	Received	Relinquished		20 *	19	15	1-1 H	91	5	14	U I	12	11	Lab ID	Sampled by: HVS	Project Manager:	Project Name:		Atlas	Company: A	Analytical 14648 NE	Enviro	1
1			Nichulu B-Main	n n	au.	Naruph Spe	Signature	TW-3	IP-4	TP-5	TH TN-2	MW-27D	MW-275	MW-26S	JM-28S	1W-28D	MW-29D	Sample Identification	CES	MVVA	a Field Chauran	410~S	GRONN/G-LOGICS	Phone: (425) 883-3881 • www.onsite-env.com	Analytical Laboratory Testing Services 14648 NE 95th Street - Redmond, WA 98052	nSite nvironmental Inc.	
Reviewed/Date				Glower	G Dhu	n Arris Geo Niv	Company	3/29/24 1335 GW 3	3/29/24 1245 GW 5	3/29/24 1125 GW 5	3/24/1005 GW 5	3/29/24/0945 GN 5	3/29/24 0835 GW 5	3/29/24 0820 GW 5	3/28/24 1345 GW 5	3/28/24 1322 GW 5	3/28/24 1235 GW 5	1.	(other)		X Standard (7-Bays)	2 Days 3 Days	Same Day 1 Day	(Check One)	Turnaround Request (in working days)	Chain of C	
		-	3/29/24 160	2/29/24 10	3/29/24 14:	3/29/24 146	Date Time	I X X	XX	X	×	X	X	X	×	XX		NWTF NWTF NWTF Volati	PH-HCID PH-Gx/BT PH-Gx PH-Dx (SG les 8260 Jenated Vo	G Clean	-up [])	260])			Laboratory Num	Custody	
Chromatograms with final report X, Electronic Data Deliverables (EDDs)	Data Package: Standard 🗙 Level III 🛛 Level IV 🗆		50		w VOAs (To	52 * insufficient volume for ambers, try	Comments/Special Instructions											EDB E Semin (with 1 PAHs PCBs Organ Organ Chlori Total I Total I Total I	EPA 8011 volatiles 82 low-level F 8270/SIM 8082 nochlorine nophospho inated Acia RCRA Metals (oil and grave VT	(Waters 270/SIN PAHs) 1 (Iow-le Pesticio prus Pes d Herbio tals	s Only) 1 des 80 sticides 8	81 s 8270	//SIM		Number: 03-425	Page 2 of 3	

Reviewed/Date	Received	Relinquished	Received	Relinquished	Received	Relinquished	Signature	Company: Attas Gra NW G-Logics Project Number: 01-0410-S Project Nanager: DUPING Field Chevron Sampled by: HVS CES Lab ID Sample Identification 21 Dup-1	Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com	Environmental Inc.
Reviewed/Date		2 VOC 5121124 1600	12416	N. M. M.D.C.C. WOLD	2/20/11	Attis, 6 to NUU 3/24/24 1452	Company Date Time	Image: Second and the second and th	Turnaround Request (in working days) Laboratory Number:	Chain of Custody
Chromatograms with final report X Electronic Data Deliverables (EDDs)	Data Package: Standard Level III 🛛 Level IV 🗆						Comments/Special Instructions	Image:	03-425	Page 3 of 3

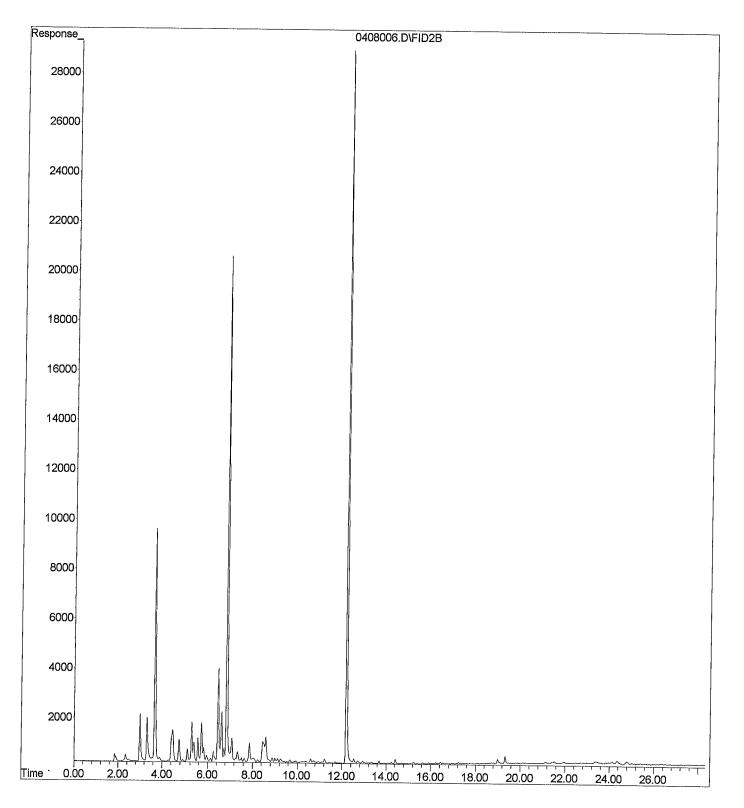
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Instrument : Daryl
Sample Name: 03-425-03d RR
Misc Info :
Vial Number: 5



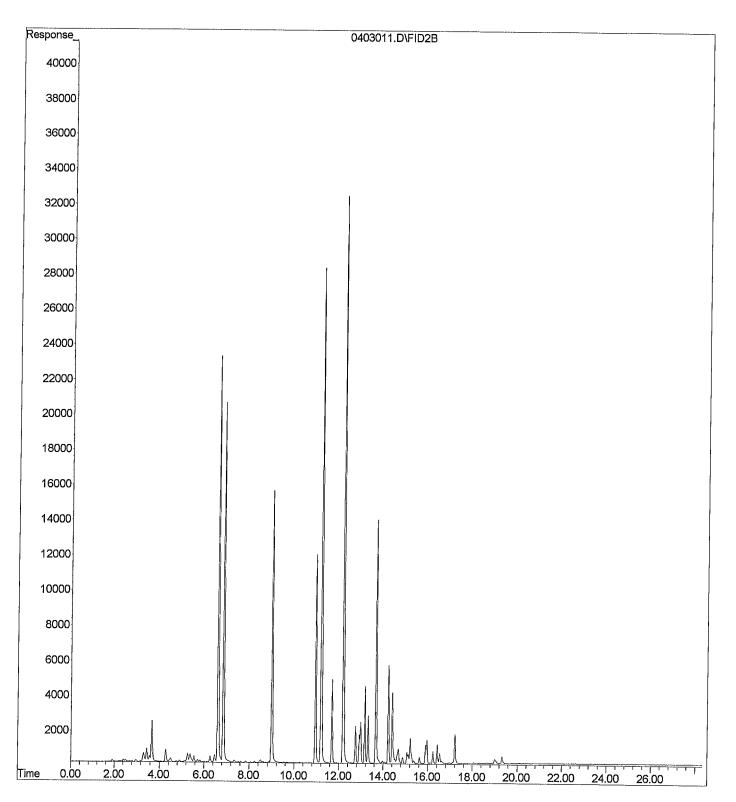
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Instrument : Daryl
Sample Name: 03-425-05a 1:250,000
Misc Info :
Vial Number: 6



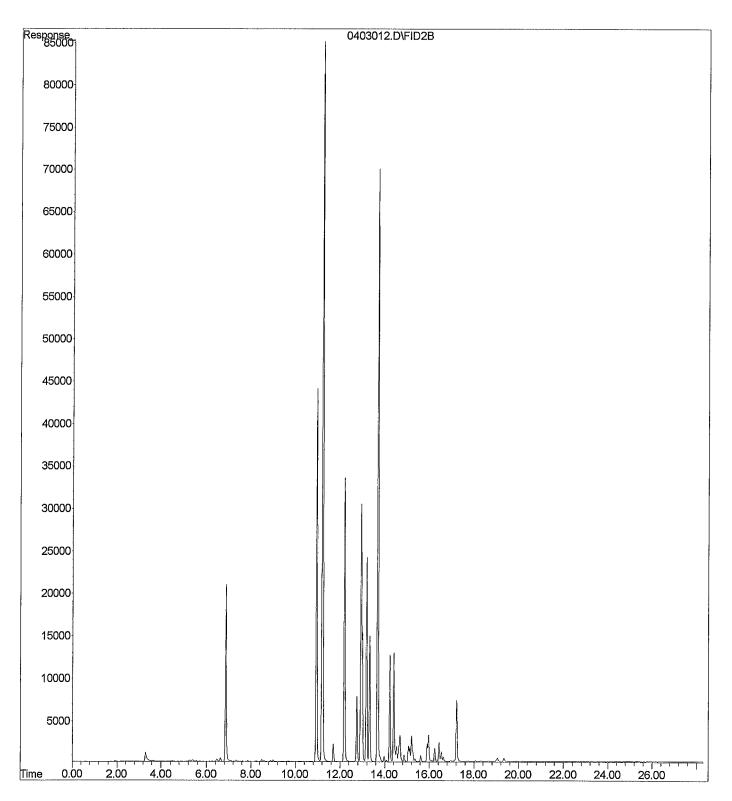
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Instrument : Daryl
Sample Name: 03-425-16c RR
Misc Info :
Vial Number: 6



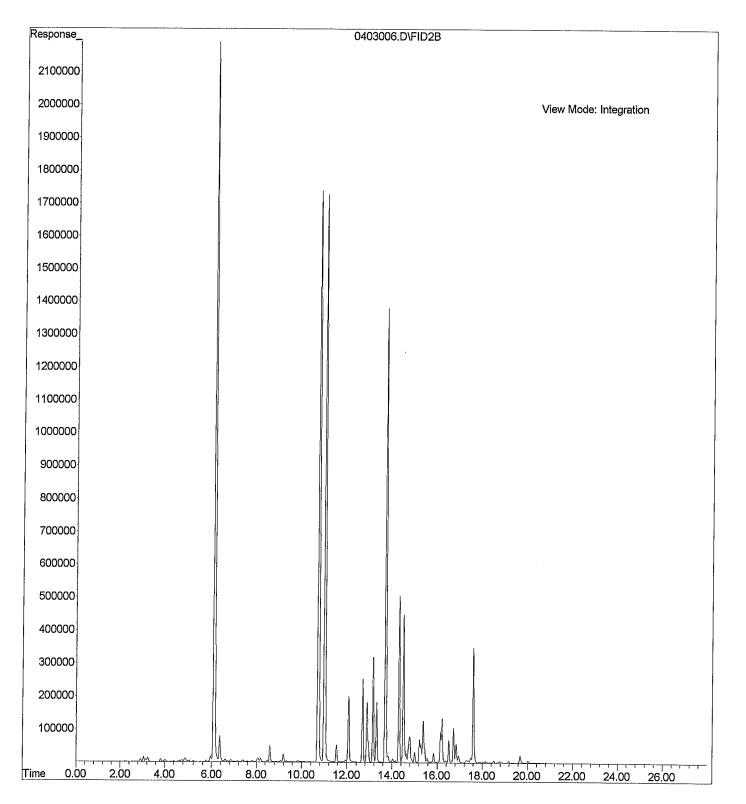
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Sample Name:	03-425-18c 1:50
Misc Info :	
Vial Number:	11
Sample Name: Misc Info :	03-425-18c 1:50



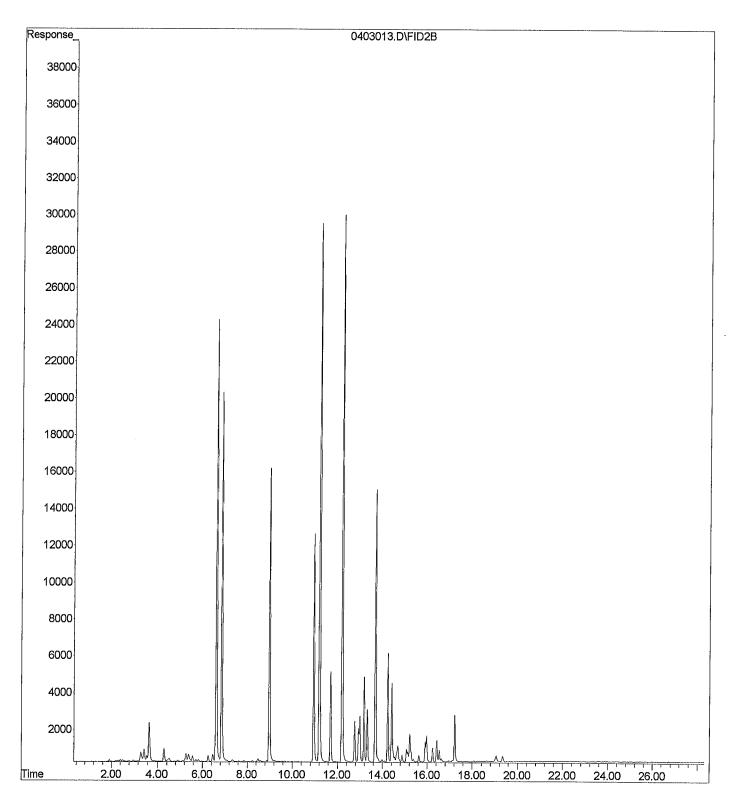
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Operator :
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Instrument : Daryl
Sample Name: 03-425-19c 1:50
Misc Info :
Vial Number: 12
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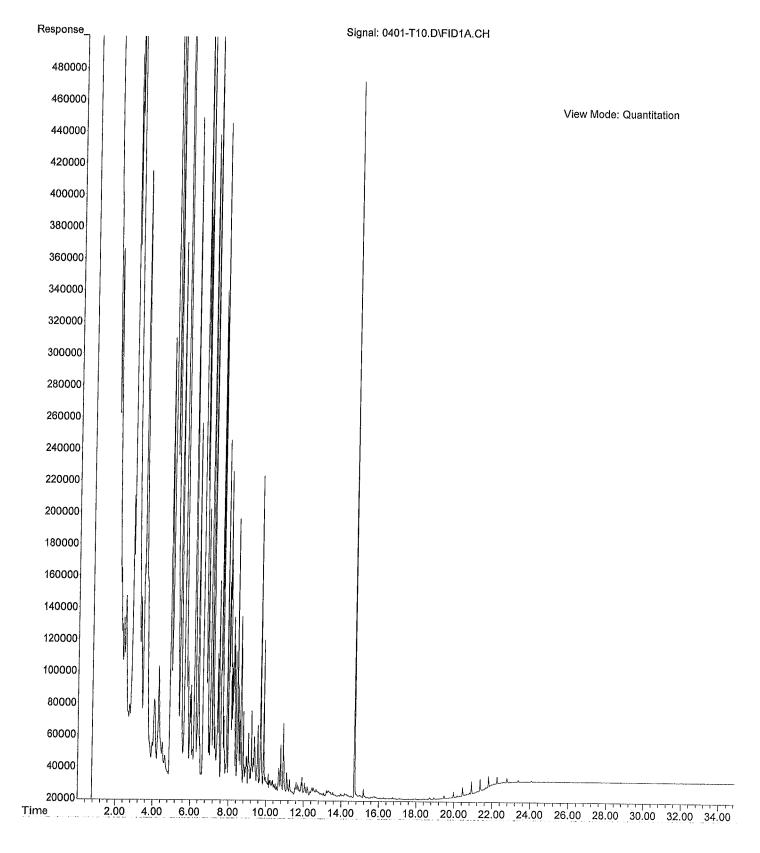
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Instrument : Hope
Sample Name: 03-425-20a
Misc Info :
Vial Number: 6



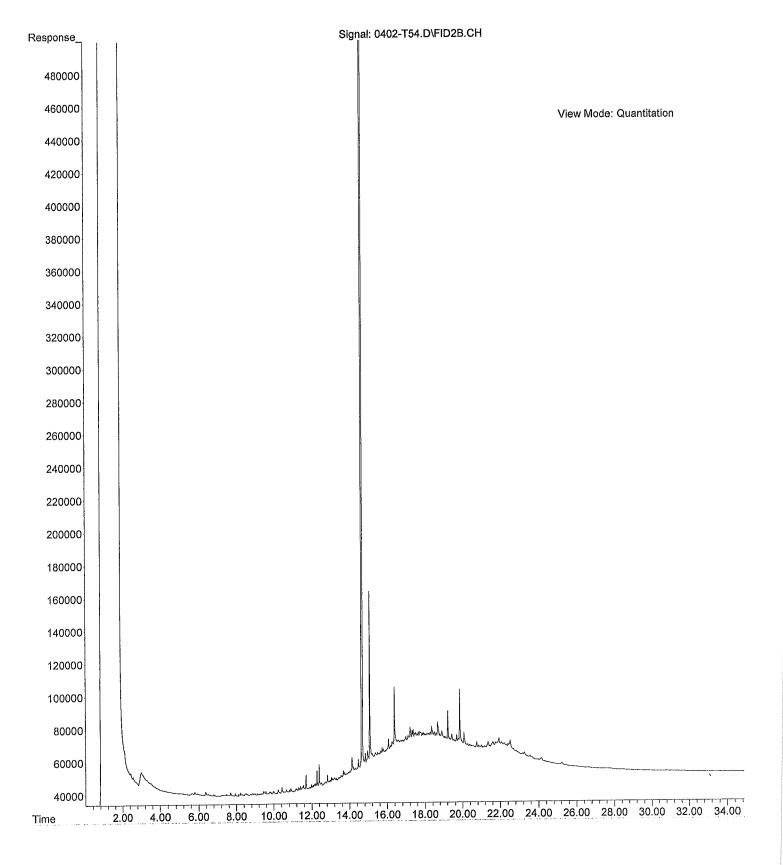
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Operator :	
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Instrument :	
Sample Name:	03-425-21c 1:50
Misc Info :	
Vial Number:	13



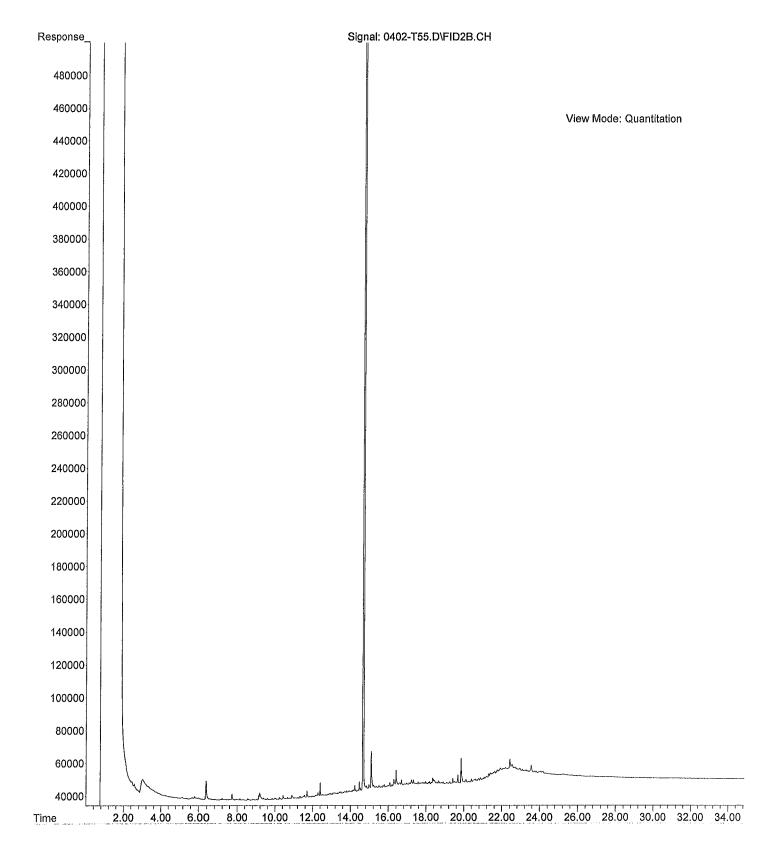
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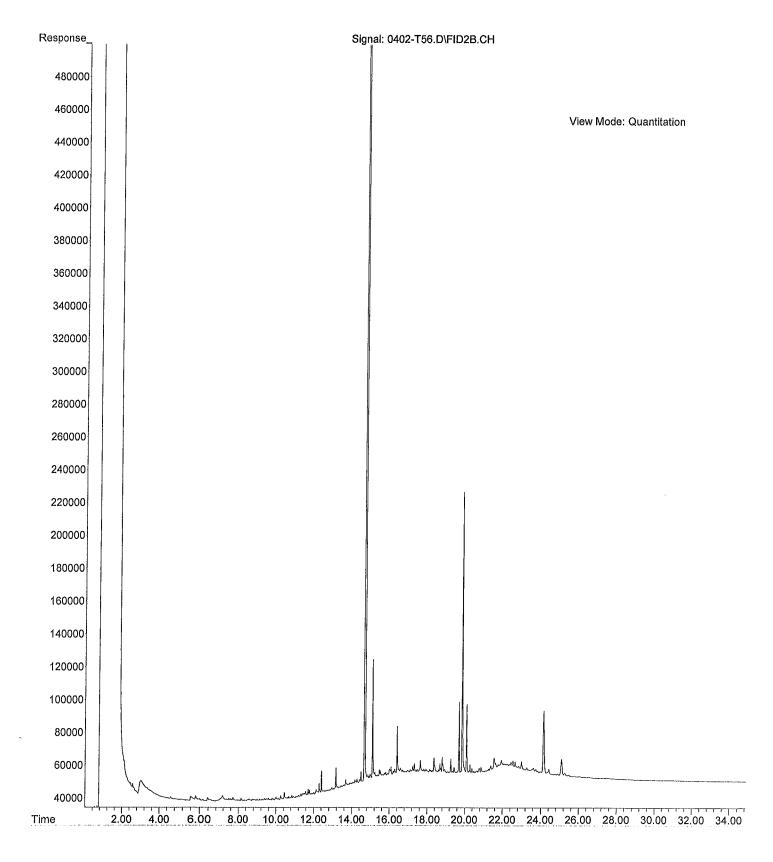
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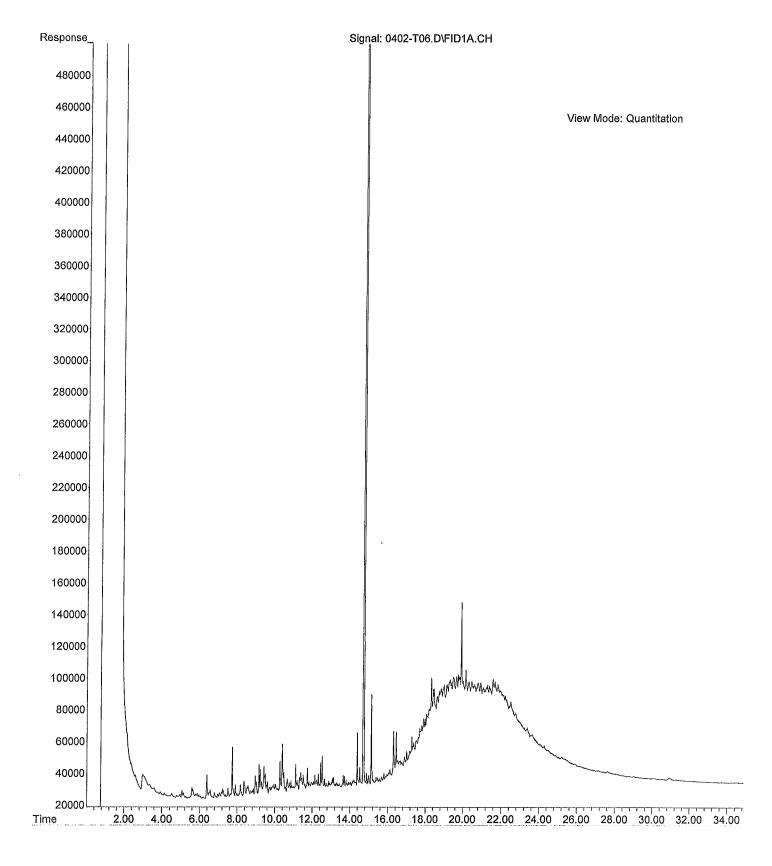
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Operator : LIMS import
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Instrument : Teri
Sample Name: 03-425-09
Misc Info : RearSamp
Vial Number: 55



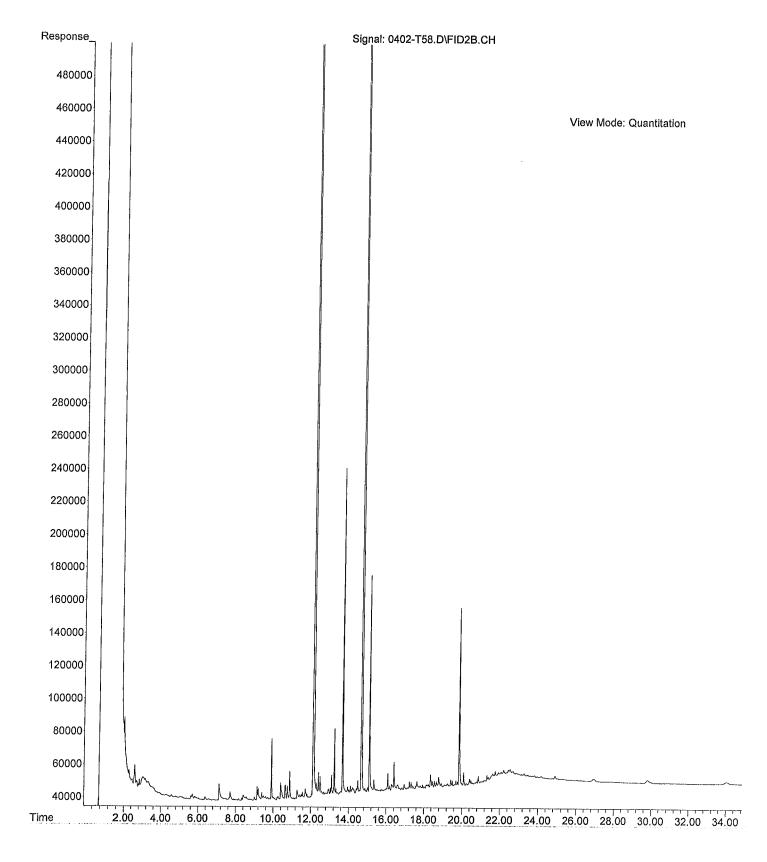
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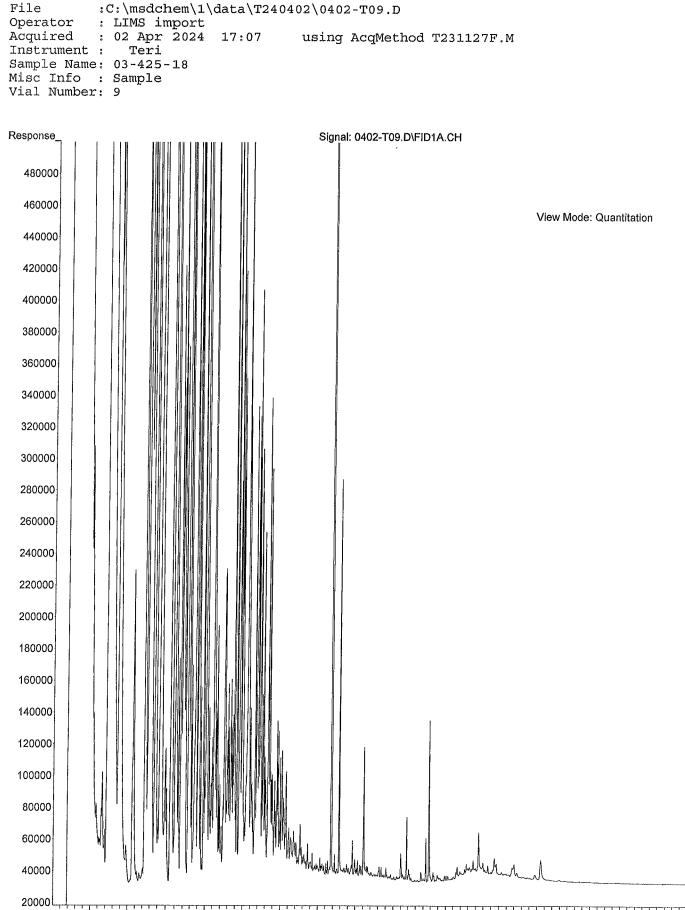


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Sample Name: 03-425-12
Misc Info : Sample
Vial Number: 6



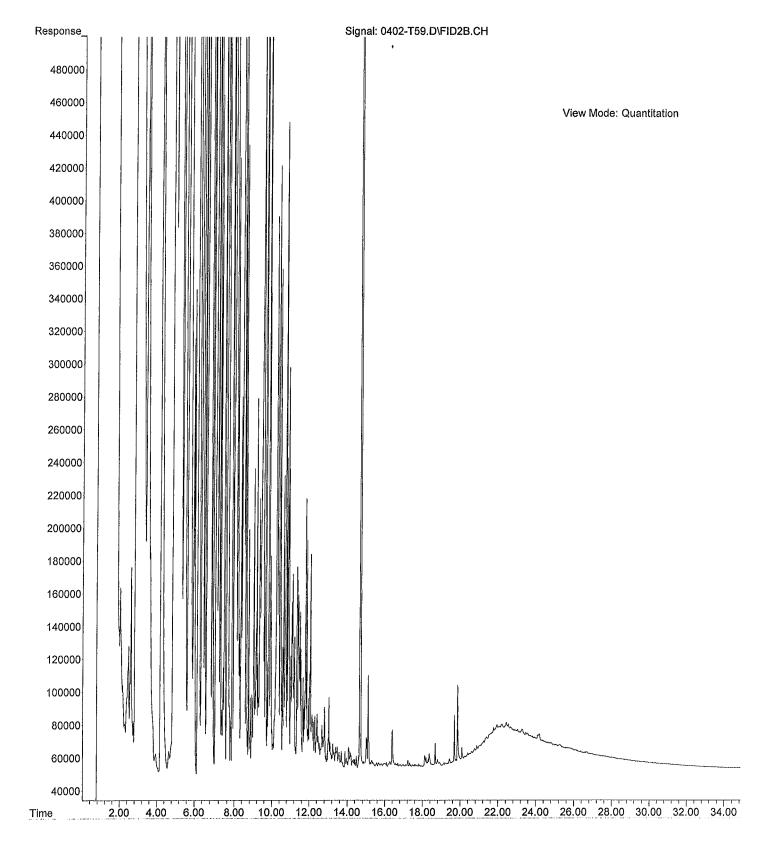
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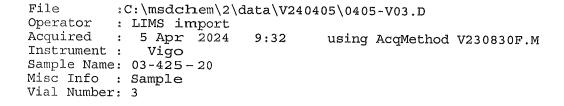


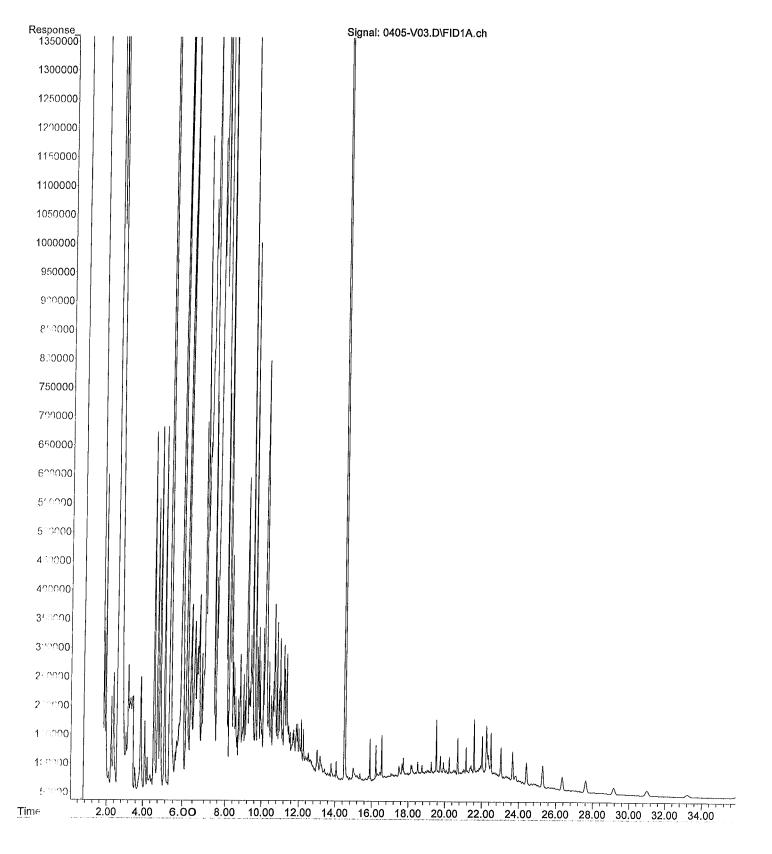


Time 2.00 4.00 6.00 8.00 10.00 12.00 14.00 16.00 18.00 20.00 22.00 24.00 26.00 28.00 30.00 32.00 34.00

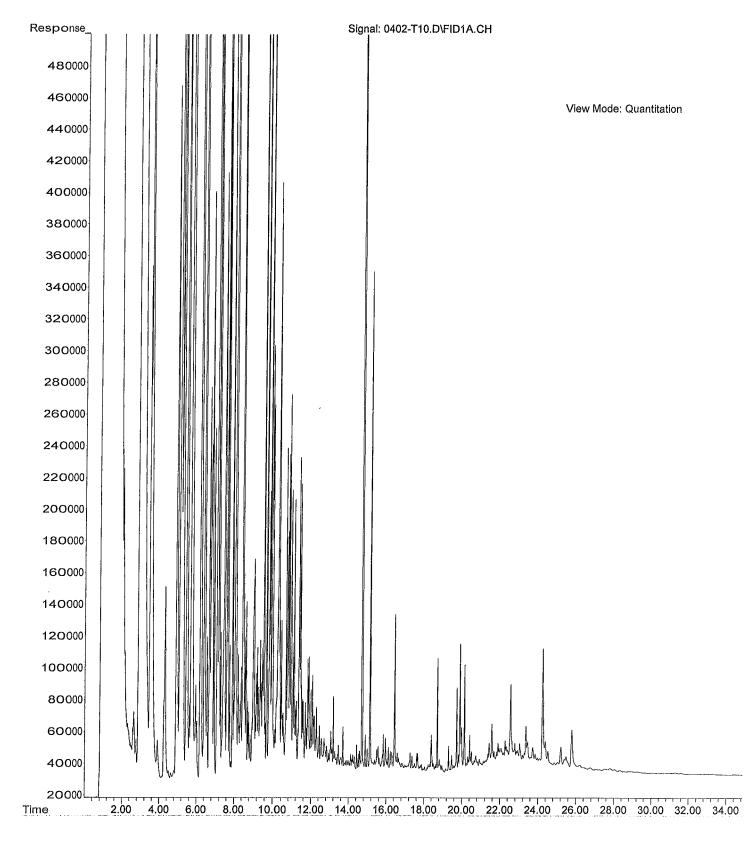
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Instrument : Teri
Sample Name: 03-425-19
Misc Info : RearSamp
Vial Number: 59







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Operator : LIMS import
Acquired : 02 Apr 2024 17:49 using AcqMethod T231127F.M
Instrument : Teri
Sample Name: 03-425-21
Misc Info : Sample
Vial Number: 10



Data Validation Worksheet Boeing Field Chevron RI Addendum

Client: RPNP Corporation

Project Name: Boeing Field Chevron

Project #: 01-0410-S

Analytical Package ID 03-425-05

				Analytes							
	Report										
Lab ID	Date	Sample ID	Matrix	GRO	DRO	ORO	BTEX	EDB	EDC	MTBE	
03-425-01	04/09/24	MW-25	Water	Х	Х	Х	Х	*	*	*	
03-425-02	04/09/24	MW-23	Water	Х	Х	Х	Х	*	*	*	
03-425-03	04/09/24	MW-24D	Water	Х	Х	Х	Х	*	*	*	
03-425-04	04/09/24	MW-30	Water	Х	Х	Х	Х	*	*	*	
03-425-06	04/09/24	MW-24	Water	Х	Х	Х	Х	*	*	*	
03-425-07	04/09/24	MW-19	Water	Х	Х	Х	Х	*	*	*	
03-425-08	04/09/24	MW-18	Water	Х	Х	Х	Х	*	*	*	
03-425-09	04/09/24	MW-20	Water	Х	Х	Х	Х	*	*	*	
03-425-10		MW-21	Water	Х	Х	Х	Х	*	*	*	
03-425-11	04/09/24	MW-29D	Water	Х	Х	Х	Х	*	*	*	
03-425-12	04/09/24	MW-28D	Water	Х	Х	Х	Х	*	*	*	
03-425-13	04/09/24	MW-28S	Water	Х	Х	Х	Х	*	*	*	
03-425-14		MW-26S	Water	Х	Х	Х	Х	*	*	*	
03-425-15		MW-27S	Water	Х	Х	Х	Х	*	*	*	
03-425-16		MW-27D	Water	Х	Х	Х	Х	*	*	*	
03-425-17	• • = .	TW-2	Water	Х	Х	Х	Х	*	*	*	
03-425-18	• • = .	IP-5	Water	Х	Х	Х	Х	*	*	*	
03-425-19		IP-4	Water	Х	Х	Х	Х	*	*	*	
03-425-20		TW-3	Water	Х	Х	Х	Х	*	*	*	
03-425-21		Dup-1	Water	Х	Х	Х	Х	*	*	*	
03-425-05	04/09/24	IP-7-Product	Product	Х	Х	Х	Х	Х	Х	Х	

Notes:

x = Analysis performed for analyte

* = Analysis not performed for analyte