

Groundwater Monitoring Report

RCRA Corrective Action Program Boeing Renton Facility Wood Project # PS20203450.2022

Prepared for:

The Boeing Company

Seattle, Washington



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Prepared for:

The Boeing Company Seattle, Washington

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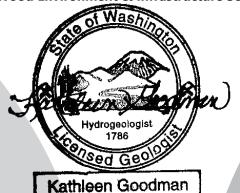
May 26, 2022

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As approved by the Washington State Department of Ecology in a letter dated July 31, 2020, progress reporting is conducted on a semiannual basis in conjunction with monitoring, operations, and maintenance activities conducted pursuant to Agreed Order No. 8191and as outlined in the Engineering Design Report (AMEC, 2014).

Wood Environment & Infrastructure Solutions, Inc.



May 26, 2022

Kathleen Goodman, L.G. L.Hg. Licensed Geologist/Hydrogeologist #1786 Expiration Date: September 6, 2022



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List of acronyms

μg/L micrograms per liter

AOC area of concern

Boeing The Boeing Company
CAP Cleanup Action Plan

cis-1,2-DCE cis 1,2-dichloroethene

CMP Compliance Monitoring Plan

COC constituent of concern

CPOC conditional point of compliance

CUL cleanup level

DO dissolved oxygen

Ecology Washington State Department of Ecology

EDR Engineering Design Report

MA monitored attenuation

mg/L milligrams per liter

MNA monitored natural attenuation

Order Agreed Order No. 8191

ORP oxidation/reduction potential

PCE tetrachloroethene

RCRA Resource Conservation and Recovery Act

SVE soil vapor extraction

SWMU solid waste management unit

TCE trichloroethene

the Facility the Boeing Renton facility

TOC total organic carbon

TPH total petroleum hydrocarbons

TPH-D total petroleum hydrocarbons as diesel

TPH-G total petroleum hydrocarbons as gasoline

TPH-O total petroleum hydrocarbons as motor oil

VC vinyl chloride

VOC volatile organic compound



1.0 Introduction

This report provides progress reporting in conformance with Section VII.B.1 of Agreed Order No. 8191 (Order) and summarizes cleanup actions and monitoring conducted during the wet season of 2022 at The Boeing Company (Boeing) Renton facility (the Facility) (Figure 1). This work is required under the Resource Conservation and Recovery Act (RCRA) Corrective Action Program being performed at the Facility. Corrective action activities are performed for those solid waste management units (SWMUs), areas of concern (AOCs), and other areas where cleanup actions are ongoing. Monitoring, cleanup activities, and reporting are being conducted as part of the final remedy implementation described in the Engineering Design Report (EDR) (AMEC, 2014).

As approved by the Washington State Department of Ecology (Ecology) in a letter dated July 31, 2020, progress reporting is conducted on a semiannual basis in conjunction with monitoring, operations, and maintenance activities conducted pursuant to the Order and as outlined in the EDR.

The following documents summarize ongoing compliance activities conducted at the Facility:

- The original monitoring plan presented in Appendix D of the EDR (AMEC, 2014) was superseded by the Compliance Monitoring Plan (CMP) (Amec Foster Wheeler, 2016a), which was subsequently revised in the Addendum to the CMP (CMP Addendum #1) (Amec Foster Wheeler, 2017).
- The groundwater monitoring program was further revised in the second Addendum to the CMP (CMP Addendum #2) (Wood, 2019), which removed selected areas or wells from the sampling program.
 These changes were approved by Ecology.
- Boeing submitted a third Addendum to the CMP (CMP Addendum #3) (CALIBRE, 2020) to Ecology on June 30, 2020. This addendum recommended further modifications to the groundwater monitoring program at the Facility and was approved by Ecology in July 2020.

Groundwater monitoring and cleanup actions are being conducted at the following areas (the ongoing remedies for each of these areas are noted in parentheses):

- SWMU-168: (monitored natural attenuation [MNA]);
- SWMU-172 and SWMU-174: (bioremediation, soil vapor extraction [SVE], and monitored attenuation [MA]);
- Building 4-78/79 SWMU/AOC Group: (bioremediation and MA; SVE has been discontinued, and Ecology approved the SVE system decommissioning in 2018);
- Former Fuel Farm AOC Group: (MNA);
- AOC-003: (bioremediation and MA);
- AOC-004: (bioremediation and MA);
- AOC-060: (bioremediation and MA);
- AOC-090: (bioremediation and MA); and
- Apron A: (bioremediation and MA).

The background and investigation history for each affected unit or group of units is described in the Cleanup Action Plan (CAP) (AMEC, 2012) and/or EDR (AMEC, 2014).

Although Apron A was not included in the CAP or EDR, this report includes monitoring results for Apron A. Semiannual monitoring began in Apron A starting in the fourth quarter 2016 (Amec Foster Wheeler, 2016b).



The goals for cleanup of groundwater at the Facility, as described in the CAP, include protection of groundwater for drinking water beneficial use at all areas of the site, and demonstration of protection of surface water beneficial uses at the conditional points of compliance (CPOCs) for each SWMU and AOC. Cleanup goals and comparison with specific criteria are discussed in this report for each SWMU and AOC. Concentrations for protection of groundwater for beneficial use for each constituent of concern (COC) are based on site-specific cleanup levels (CULs) specified in the CAP. Ecology has made multiple clarifications and changes to the CULs in the Model Toxics Control Act regulations since the draft CAP (AMEC, 2012) was prepared that are relevant to the Facility CULs. Boeing submitted proposed updates to the CULs (CALIBRE, 2021) to Ecology that are currently under review. The measured COC concentrations in groundwater presented in this report are compared with the CULs specified in the CAP.

This semiannual report:

- Describes work completed during the reporting period;
- Describes any deviations from corrective action tasks required under the Order and/or CAP;
- Describes revisions to the corrective action schedule;
- Describes work projected to occur during the next semiannual sampling event, including any planned deviation from the CAP;
- Discusses remediation operation and maintenance activities conducted at the Facility during the reporting period;
- Documents monitoring activities conducted during the reporting period;
- Describes and discusses trends in monitoring data;
- Assesses remediation at each area; and
- Assesses attainment of CULs at the CPOCs.

This report presents information based on monitoring activities conducted during the wet season 2022 for the period from November 2021 through April 2022. In accordance with the requirements of the Order, corrective action activities were conducted at the Facility as described in this report.

1.1 Work completed in the wet season 2022

The following work was completed during the wet season 2022 (the period from November 2021 through April 2022):

- Nitrate/sulfate injections were performed at the Building 4-78/79 area during November 2021.
- On behalf of Boeing, Wood Environment & Infrastructure Solutions, Inc. submitted the dry season 2021 Groundwater Monitoring Report to Ecology on November 29, 2021.
- The SVE system in SWMU-172 and SWMU-174 operated throughout the wet season, with one intermission from December 20, 2021, through January 24, 2022.
- CALIBRE collected samples for TO-15 analysis in SWMU-172/174 on January 24 and 25, and February 9, 2022, for monitoring of contaminant rebound.
- CALIBRE sampled the following injection well monitoring points on February 17, 2022, to monitor the status of COCs:
 - B003-001 in AOC-003,
 - GW-210S and B78-16 in the Building 4-78/79 Area, and



- B172-01 and B172-08 in SWMU-172/174.
- Landau Associates completed the 2022 site-wide wet season sampling from February 21–23, 2022.

1.2 Deviations from required tasks

No deviations from tasks required in the Order occurred during this activity period.

1.3 Deviations from CAP

During this activity period, three deviations from the CMP occurred:

- No groundwater samples were collected in the Building 4-78/79 SWMU/AOC Group from source area
 wells GW031S and GW244S, which were decommissioned during 2021 excavation of soils
 contaminated with total petroleum hydrocarbons (TPH) and have not yet been replaced. More details
 regarding this deviation are provided in Section 3.3.2.
- For the Former Fuel Farm AOC group, a laboratory analyst error occurred for the groundwater sample from GW211S, in which the reporting limits were above the CULs. More details regarding this deviation are provided in Section 3.4.2.
- For AOC 90, the reporting limit for 1,1,2,2-tetrachloroethane was elevated above the CUL due to interference during the analysis. The analyte was not detected at the reporting limit; however, this does not meet the precision goals of the CMP. More details regarding this deviation are provided in Section 3.9.2.

Modifications proposed in CMP Addendum #3 (CALIBRE, 2020) and approved by Ecology have been incorporated into this sampling event and are summarized for each sampling area.

1.4 Schedule of monitoring

Ecology approved the modifications to the monitoring plan in CMP Addendum #3 (CALIBRE, 2020) on July 31, 2020, including a change from both quarterly and semiannual sampling to a sitewide semiannual program with sampling events to occur during the wet and dry seasons (in February and August, respectively). The revised monitoring plan is detailed in Appendix A, Table A-1. This revised sampling schedule began in August 2020.

In 2022, the wet season report will be delivered to Ecology on or before May 31 and the dry season report will be delivered to Ecology on or before November 30.

1.5 Work projected for the next reporting period

The following work is projected for the upcoming 2022 dry season event:

• In support of ongoing construction activities at the Boeing Renton site, well decommissioning and reinstallation in Apron R (AOC-001 and -002) is planned to take place. Monitoring wells in the area of construction at Apron R were decommissioned in November 2019 and more wells are planned to be decommissioned in late 2022. Construction schedule delays were incurred due to a recent concrete workers strike. Wells that were a part of the CMP Addendum #1 sampling program are scheduled to be reinstalled when construction is complete. The reinstallation is planned to be completed in late 2023. The Apron R Well Abandonment and Replacement: AOC-001 and AOC-002 Memo (Wood, 2021) provides more details and a comprehensive list of the plan of wells to be decommissioned and/or replaced.



- Monitoring wells GW031S and GW244S were decommissioned as a part of the Building 4-78/79 excavation work and are planned to be replaced in 2022, prior to the dry season CMP sampling event.
- A technical memorandum recommending closure/decommissioning of wells that are no longer required for investigative, bioremediation, or compliance monitoring purposes was submitted to Ecology on January 5, 2022 (CALIBRE, 2022). Ecology approved the well decommissioning plan on January 18, 2022, and the decommissioning activities are planned to start in May 2022 and be completed by the end of the year.
- Continued enhanced reductive dechlorination treatment is planned for SWMU-172/174, Building 4-78/79, AOC-003, AOC-060, AOC-090, and Apron A.
- Shutdown SVE system in SWMU-172/174, pending Ecology concurrence.
- Reporting will be completed in accordance with the Order, CAP, EDR, and changes approved by Ecology, including those modifications proposed in CMP Addendum #3 (CALIBRE, 2020).

2.0 Groundwater sampling methodology

Groundwater was sampled and analyzed as described in Appendix A. These procedures are in accordance with the methods specified in the CMP (Amec Foster Wheeler, 2016a) and CMP Addendum #3 (CALIBRE, 2020). Table A-1 summarizes the current groundwater monitoring program and COCs specified in the CAP and revised in CMP Addendum #1 (Amec Foster Wheeler, 2017), CMP Addendum #2 (Wood, 2019) and CMP Addendum #3 (CALIBRE, 2020) for all Facility corrective action areas. Table A-2 summarizes the current groundwater monitoring program for the corrective action areas that include MNA or MA as part of the cleanup remedy specified in the CAP. Tables A-1 and A-2 also specify monitoring requirements for Apron A, which was not included in the CAP. Any changes or exceptions to the sampling or analytical methods cited in Appendix A during the event is described in the applicable subsections in Section 3. The field data sheets, which document the groundwater sample collection and field parameter monitoring for each well sampled during this event, are included in Appendix B.

The analytical methods, field duplicate, lab duplicate, and matrix spike/matrix spike duplicate frequencies are specified in the Quality Assurance Project Plan (Amec Foster Wheeler, 2016c). The full analytical reports provided by the laboratory are provided separately on a secure online storage application, OneDrive. The data validation memoranda are included in Appendix C.

3.0 Corrective action activities completed during the reporting period

This section describes the corrective action activities conducted at the Facility during the wet season of 2022. Operation of the SVE system at SWMU-172/174 continued during the wet season, as discussed in Section 3.2.1.2. Compliance monitoring was conducted in accordance with the CMP (Amec Foster Wheeler, 2016a) and CMP Addendum #3 (CALIBRE, 2020).

3.1 **SWMU-168**

This section describes corrective action activities conducted at this SWMU. Figure 2 shows the locations of the groundwater monitoring wells at SWMU-168 for which sampling is required under CMP Addendum #3 (CALIBRE, 2020) and the groundwater elevation at the remaining well measured during this monitoring event. The cleanup remedy for SWMU-168 is MNA; therefore, cleanup activities consist of monitoring only.



3.1.1 Cleanup action activities

No installation/construction activities were conducted for this cleanup action area during the wet season.

3.1.2 Compliance monitoring plan deviations

No deviations from the CMP occurred for this area during the wet season. The wells monitored in this group changed with the acceptance of CMP Addendum #3 (CALIBRE, 2020) by Ecology. CPOC area wells GW229S and GW231S have been removed from the monitoring plan in this area. The COC remained the same.

3.1.3 Water levels

The groundwater elevation measured during the wet season 2022 groundwater monitoring event at SWMU 168 is summarized in Table 1 and shown on Figure 2. Groundwater elevation contours are not shown since only one well, GW230I, is currently monitored in this group. The general direction of groundwater flow depicted on Figure 2 is based on historical information.

3.1.4 Groundwater monitoring results

Results for primary geochemical indicators are presented in Table 2; results for the single SWMU-168 COC, vinyl chloride, are presented in Table 3; and COC results for sampling events in recent years are presented in Appendix D.

3.1.4.1 Natural attenuation/geochemical indicators

The geochemical indicator results are presented in Table 2. Data from the CPOC area well indicate that conditions are conducive to natural attenuation of vinyl chloride (VC) in this SWMU. The pH value measured was slightly acidic at 6.41. The CPOC well showed reducing conditions with low dissolved oxygen (DO) and a low but positive oxidation/reduction potential (ORP) reading. Reducing conditions are present in well GW230I, indicating conditions favorable for dechlorination of volatile organic compounds (VOCs).

3.1.4.2 COC results for source area

Groundwater samples were not collected from the source area well, GW228S, for SWMU-168 per CMP Addendum #3 (CALIBRE, 2020).

3.1.4.3 COC results for conditional point of compliance area

The monitoring result for the CPOC area well is shown in Table 3. The concentration of VC in the groundwater from CPOC area well GW230I was slightly above the CUL of 0.11 micrograms per liter (μ g/L), at 0.164 μ g/L. Historical trends for VC in GW230I are shown in Appendix D and depicted on Figure 3. VC concentrations show an apparent seasonal pattern with lower concentrations in the wet season; the recent wet season concentration decreased since the last monitoring event, in keeping with the trend.

3.2 SWMU-172 and SWMU-174

This section describes corrective action activities conducted at these two SWMUs. The cleanup remedy for SWMU-172 and SWMU-174 is a combination of bioremediation, SVE, and MA. Figure 4 shows the layout of the groundwater monitoring wells for which sampling is required under CMP Addendum #3 (CALIBRE, 2020) and the remediation system for these SWMUs.



3.2.1 Cleanup action activities

3.2.1.1 Installation/construction activities

No installation/construction activities were conducted for these SWMUs during the wet season of 2022.

3.2.1.2 Soil vapor extraction and bioremediation operations

The SVE system operated throughout the wet season of 2022 with one intermission between December 20, 2021, and January 24, 2022, when the system was shut down to perform rebound testing. Samples were collected for TO-15 analysis on January 24 and 25, and February 9, 2022, to measure rebound effect. No rebound was observed. Details of system operations are included in the SVE operations and monitoring summary prepared by CALIBRE and included as Appendix E.

3.2.2 Compliance monitoring plan deviations

No deviations from the CMP occurred for this area during the wet season event. The wells monitored in this group changed with the acceptance of CMP Addendum #3 (CALIBRE, 2020) by Ecology. Downgradient plume area well GW081S and CPOC area well GW233I were removed from the monitoring plan under CMP Addendum #3 (CALIBRE, 2020). The COCs remained the same for SWMU-172 and SWMU-174 under CMP Addendum #3.

3.2.3 Water levels

Groundwater elevations for the SWMU-172 and SWMU-174 area measured during the wet season event 2022 are summarized in Table 4 and shown on Figure 4. The groundwater elevation data show a flow direction generally to the northeast, toward the Cedar River Waterway; however, the sheet pile wall to the east of this area prevents a direct groundwater connection to the river, as depicted by the contours.

3.2.4 Groundwater monitoring results

Groundwater at this area is monitored following the analysis protocol presented in Tables A-1 and A-2 in Appendix A. Results for primary geochemical indicators are presented in Table 5; results for the SWMU-172 and SWMU-174 area COCs are presented in Table 6.

3.2.4.1 Monitored attenuation/geochemical indicators

The geochemical indicator results are presented in Table 5. Specific conductivity ranged between 140.6 and 352.6 microsiemens per centimeter across the area, which are normal observed values for the groundwater in this SWMU. pH was slightly acidic across SWMU-172 and SWMU-174. ORP was positive in the source area wells as well as in some of the downgradient and CPOC area wells; DO and ORP results indicate reducing conditions in the area and other natural attenuation parameter results were generally uniform across this area. Total organic carbon (TOC) concentrations ranged from 0.50 milligrams per liter (mg/L) to 7.80 mg/L for all SWMU-172 and SWMU-174 monitoring wells.

3.2.4.2 COC results for source and downgradient plume areas

Table 6 lists wet season 2022 analytical results for the SWMU-172 and SWMU-174 COCs. Figures 5 and 6 show historical trend plots for tetrachloroethene (PCE), trichloroethene (TCE), VC, and cis 1,2-dichloroethene (cis-1,2-DCE) in source area wells GW152S and GW153S, and in downgradient plume area wells GW172S and GW173S. Figure 7 shows trend plots for the same COCs in downgradient plume area well GW226S. Groundwater flows generally from the vicinity of source area well GW152S to downgradient plume area well GW172S, and from source area well GW153S to downgradient plume area well GW173S. PCE and TCE are



the chlorinated solvents that were used at the Facility, and cis-1,2-DCE and VC are breakdown products resulting from biodegradation processes.

Source area groundwater CUL exceedances (Table 6) consisted of:

- GW152S (and the associated duplicate sample): cis-1,2-DCE, PCE, TCE, and VC, and
- GW153S: cis-1.2-DCE and VC.

Downgradient plume area groundwater CUL exceedances (Table 6) consisted of:

- GW172S: cis-1,2-DCE, PCE, TCE, and VC,
- GW173S: none,
- GW226S: cis-1,2-DCE.

As shown in Figures 5 through 7, the concentrations of COCs in groundwater from source area wells and downgradient plume area wells have generally remained stable or decreased over time.

Arsenic was detected above the CUL in the groundwater from all source area and downgradient plume area wells in this SWMU area. As shown on Figure 8, the arsenic concentrations in groundwater from source and downgradient plume area wells have generally remained stable over the past two years. The observed range of arsenic in groundwater is within the naturally occurring background arsenic range reported by Ecology ¹ for Washington State (Ecology 2021).

Both copper and lead were detected above the CULs in the groundwater from source area well GW152S and its duplicate sample. Lead was also detected above the CUL in the groundwater from downgradient plume area well GW172S.

3.2.4.3 COC results for conditional point of compliance area

Results from the CPOC area wells are presented in Table 6, and trend charts for cis-1,2-DCE, TCE, and VC for all CPOC area wells are presented in Figure 9. As shown in Table 6, cis-1,2-DCE was detected above the CUL in the groundwater from CPOC area wells GW232S, GW234S, and GW235I; TCE was also detected above the CUL in the groundwater from GW235I; and VC was detected above the CUL in the groundwater from GW234S and GW235I, but below the CUL. The only detected compound in GW236S was PCE, which narrowly exceeded the CUL at $0.0206~\mu g/L$. Figure 9 shows the COCs in the CPOC area have decreased since the previous sampling event.

Arsenic was detected above the CUL in the groundwater from all CPOC area wells except for GW235I, where it was not detected. Lead and copper were detected in all CPOC area wells, but only exceeded the CUL in the groundwater from GW236S (Table 6). Figure 10 shows arsenic, copper, and lead concentration trends in groundwater from the CPOC area wells since the beginning of compliance monitoring. As shown in Figure 10, arsenic, copper, and lead remained within a stable range or decreased since the last monitoring event.

The 2021 Ecology background study is based on testing from over 2,500 supply wells used for potable supply in Puget Sound Basin. All samples are from water supply aquifers with no known anthropogenic impacts. For the Puget Sound Basin, 50 percent of samples are non-detect but the natural background range includes more than 1,400 samples between 0.8 and 76 μg/L arsenic, with an average of 5.4 μg/L. This naturally occurring range is consistent with prior studies by USGS (2000) and Ecology (1989) in Washington State.



3.3 Building 4-78/79 SWMU/AOC group

This section describes corrective action activities conducted at the Building 4-78/79 SWMU/AOC Group during the wet season 2022. The cleanup remedy for this SMWU/AOC group is bioremediation and MA as well as excavation of soils contaminated with TPH; discontinuation of SVE was approved by Ecology on November 1, 2018, and the system was decommissioned during the first quarter of 2019. Figure 11 shows the location of the September 2021 TPH source area soil excavation, groundwater monitoring wells for which sampling is required under CMP Addendum #3 (CALIBRE, 2020), extraction wells, decommissioned wells, horizontal SVE wells, and bioremediation injection wells for this area. Decommissioned wells in the area are depicted on the figure with a gray symbol.

3.3.1 Cleanup action activities

3.3.1.1 Installation/construction activities

No installation or construction activities were conducted during the wet season 2022. Monitoring wells GW031S and GW244S are planned to be replaced during the dry season 2022.

3.3.1.2 Soil vapor extraction and bioremediation activities

SVE operations were discontinued in late 2018; anaerobic biodegradation of benzene by nitrate/sulfate injections is the current remediation method. Certain bioremediation injection wells are still sampled to monitor the status of COCs. Trend charts for *cis*-1,2-DCE and benzene in nitrate/sulfate injection wells are presented in Figure 12, and trend charts for TCE and VC in the injection wells are presented in Figure 13.

Two wells in the Building 4-78/79 SWMU/AOC group, GW-210S and B78-16, were sampled by CALIBRE during this monitoring period. A nitrate/sulfate solution was injected in this area for benzene treatment in November 2021. More details are available in SVE Report (Appendix E). These two wells are not regularly monitored; therefore, trend charts have not been created to include their results.

3.3.2 Compliance monitoring plan deviations

Deviations from the CMP during the wet season event did not include groundwater sample collection from wells GW031S and GW244S, which were decommissioned during the 2021 Building 4/78-79 source area soil excavation and have not yet been replaced. These wells will be replaced prior to the next semi-annual sampling event in August 2022. The wells monitored in this group changed with Ecology's acceptance of CMP Addendum #3 (CALIBRE, 2020). Source area wells GW039S and GW243I; downgradient plume area wells GW038S, GW209S, and GW210S; and CPOC area wells GW238I, GW239I, GW241S, and GW242I were removed from the monitoring plan for this SWMU/AOC group. COCs remained the same for this group.

3.3.3 Water levels

Table 7 presents the groundwater elevations measured during the wet season groundwater monitoring event at the Building 4-78/79 SWMU/AOC group. As shown in Figure 11, the observed direction of groundwater flow from the source area during February was generally to the west. The measured groundwater elevations during this event did not allow for contouring of groundwater flow patterns.

3.3.4 Groundwater monitoring results

Groundwater at this area is monitored following the analysis protocol presented in Tables A-1 and A-2 in Appendix A. Results for primary geochemical indicators are presented in Table 8; results for the COCs for the Building 4-78/79 SWMU/AOC Group are presented in Table 9.



3.3.4.1 Natural attenuation/geochemical indicators

The geochemical indicator results are presented in Table 8. In general, source area, downgradient, and CPOC area wells had moderate levels of DO and high specific conductivity. The pH was slightly acidic, ranging between 5.97 and 6.36 standard units in all wells. The source area wells showed reducing conditions favorable for dechlorination of VOCs. Results for the other primary geochemical indicators were generally consistent in all wells. TOC concentrations in source area wells ranged from 7.7 to 8.8 mg/L.

3.3.4.2 COC results for source area

Table 9 lists analytical results for COCs during the wet season event at the Building 4-78/79 SWMU/AOC Group. The CULs established in the CAP for the CPOC are also presented on Table 9. Figures 14 and 15 are trend charts showing historical trends for COCs for the source area wells.

Benzene, cis-1,2-DCE, and VC were detected above the CUL in source area well GW033S (and the duplicate sample). VC was also detected above the CUL in GW034S. TPH as gasoline (TPH-G) was not detected above the CUL in any source area wells.

Figure 14 shows trends for VOCs in source area wells GW031S and GW033S. GW031S was not sampled during this monitoring event so the trend chart does not have any new data points. COCs in GW033S appear to be stabilizing over the past three monitoring events.

Figure 15 shows trends for VOCs in source area wells GW034S and GW244S. Concentrations of COCs in GW034S appear generally stable, with all COCs except for VC below laboratory detection limits for the past ten monitoring events. GW244S was not sampled during this event but COC concentrations in GW244S have generally trended down since monitoring began.

3.3.4.3 COC results for conditional point of compliance area

Groundwater monitoring results in the CPOC area for the wet season 2022 are summarized in Table 9. Trends for CPOC area wells GW143S, GW237S, and GW240D are shown in Figures 16 through 18. Benzene was detected at 3.73 μ g/L in groundwater from GW237S, above the 0.80 μ g/L CUL. Cis-1,2-DCE was detected in GW143S and TPH-G was detected in GW237S, but both were below their CULs.

Benzene has been sporadically detected above the CUL in groundwater from the CPOC area well GW237S but has not been detected above the CUL in the groundwater from any of the other CPOC area wells.

Cis-1,2-DCE has been detected sporadically in groundwater above CUL from CPOC area well GW143S (though below the CUL in this sampling event) but has not been detected above the CUL in the groundwater from any of the other CPOC area wells (Figure 16). Figure 17 shows that TCE has not been detected in the CPOC area for three consecutive events and VC was only detected in GW237S over the last five monitoring events; however, all CPOC area wells were non-detect for TCE and VC during the most recent event. Figure 18 shows that TPH-G was detected only in GW237S since monitoring began and has been steadily decreasing, with the last five monitoring events under the CUL.

3.4 Former Fuel Farm AOC group

This section describes corrective action activities conducted at the Former Fuel Farm AOC group during the wet season 2022. Figure 19 shows the layout of the groundwater monitoring wells for which sampling is required under CMP Addendum #3 (CALIBRE, 2020). The final remedy for the Former Fuel Farm is MNA.

3.4.1 Cleanup action activities

No installation/construction activities were conducted for this cleanup action area during the wet season 2022.



3.4.2 Compliance monitoring plan deviations

One deviation from the CMP occurred for this area during the wet season. The laboratory groundwater analyses reporting limits should be below the associated CULs in order to show whether or not an exceedance of the CUL occurred. For the groundwater sample from GW211S, an analyst error occurred, and the reporting limits were above the CULs. The laboratory was made aware of this issue to avoid recurrence of the same issue in the future. More details are available in Appendix C. The wells monitored in this group changed with Ecology's acceptance of CMP Addendum #3 (CALIBRE, 2020). Source area well GW255S and CPOC area wells GW183S, GW184S, GW212S, GW256S, GW257S, and GW258S were removed from the monitoring program for this group. COCs remained the same for this group.

3.4.3 Water levels

Groundwater elevations for the Former Fuel Farm AOC Group measured during the wet season event are summarized in Table 10 and shown on Figure 19. Groundwater elevation contours are not shown since only three wells are monitored in this group and data are too limited to produce accurate contours. Groundwater flow direction to the northeast is based on historical information from this AOC.

3.4.4 Groundwater monitoring results

Results for primary geochemical indicators are presented in Table 11; results for COCs for the Former Fuel Farm AOC Group are presented in Table 12.

3.4.4.1 Monitored natural attenuation indicators

The geochemical indicator results are presented in Table 11. Results in Table 11 indicate that geochemical conditions are generally consistent throughout the Former Fuel Farm AOC Group. Specific conductivity was moderate for groundwater. Near neutral pH was observed in CPOC area wells ranging from 5.97 to 6.63 standard units. Low to moderate DO and low ORP was observed in all monitored wells. The geochemical indicators indicate natural attenuation of the COCs for the Former Fuel Farm AOC Group is occurring.

3.4.4.2 COC results for source area

The single source area well for this group was removed from the monitoring plan with Ecology's acceptance of CMP Addendum #3 (CALIBRE, 2020).

3.4.4.3 COC results for conditional point of compliance area

CPOC area monitoring results are presented in Table 12. Figure 20 shows trend data for CPOC area wells GW211S, GW221S, and GW224S. Figure 20 shows that the wet season event results for these wells are consistent with the historical monitoring results since late 2013. Samples were analyzed for TPH as diesel (TPH-D), motor oil (TPH-O), and Jet A. TPH-D was detected above the CUL in GW221S and GW224S (and its duplicate sample). TPH-O was not detected in any of the CPOC area wells. Jet A was detected in both GW221S and GW224S, but only exceeded the CUL in the sample from GW224S. None of the COCs were detected in GW211S; however, the elevated reporting limits are above the CUL. It is worth noting that both TPH-D and Jet-A have been below the CUL in GW211S for the previous eight monitoring events. COC concentrations in GW221S remain in a stable range. Concentrations in GW224S appear to be decreasing steadily, with annual fluctuations in both TPH-D and Jet-A.



3.5 AOC-001 and AOC-002

Apron R near AOC-001 and AOC-002 is under construction. Therefore, no monitoring was conducted for this area during the wet season 2022. Monitoring wells in these areas were removed on November 25, 2019, and more are scheduled to be removed during the wet season 2022. Monitoring wells are planned to be reinstalled after construction is complete, which is currently anticipated for late 2023. Groundwater monitoring activities are anticipated to resume in 2024 after the wells are replaced.

3.6 AOC-003

This section describes corrective action activities conducted at AOC-003 for the wet season event. The cleanup remedy for this AOC is bioremediation and MA. Figure 21 shows the location of groundwater monitoring wells for which sampling is required under CMP Addendum #3 (CALIBRE, 2020) and bioremediation wells, as well as the groundwater elevations measured during this monitoring event.

3.6.1 Cleanup action activities

No installation/construction activities were conducted for this cleanup action area during the wet season event.

3.6.2 Compliance monitoring plan deviations

No deviations from the CMP occurred for this area during the wet season. The COCs monitored in this group changed with Ecology's acceptance of CMP Addendum #3 (CALIBRE, 2020). PCE, TCE, and cis-1,2-DCE were removed as COCs. Wells in the monitoring program remained the same for this AOC.

3.6.3 Water levels

Table 13 presents the groundwater elevations measured during the wet season event at AOC-003. Figure 21 shows the groundwater elevations from this event. The layout of remaining groundwater elevations in this area does not allow for contouring of groundwater patterns. The groundwater flow direction to the northwest is estimated based on historical information of the area and is consistent with the available groundwater elevations measured during this event.

3.6.4 Groundwater monitoring results

Results for geochemical indicators are presented in Table 14; results for the AOC-003 COCs are presented in Table 15.

3.6.4.1 Monitored attenuation/geochemical indicators

The geochemical indicator results are presented in Table 14. Results in Table 14 indicate that geochemical conditions are generally consistent throughout this AOC. High specific conductivity and low DO were observed during this monitoring event, and pH readings were near neutral for all wells in this area. Based on the geochemical indicators, reducing conditions are occurring in this area.

3.6.4.2 COC results for source and downgradient plume areas

Samples from wells in this group were analyzed for VC. The concentration in the source area well was above the CUL. VC was detected in the downgradient plume area well but was below the CUL. The results for this area are qualified as estimated (see Appendix C for more information). Figure 22 shows the historical trends of VC in source area well GW249S and downgradient plume area well GW188S.



3.6.4.3 COC results for conditional point of compliance area

VC was detected in both CPOC area wells, but only exceeded the CUL in GW248I. The results for this area are qualified as estimated (see Appendix C for more information). Figure 23 shows the historical trends of VC in GW247S and GW248I.

3.7 AOC-004

This section describes corrective action activities conducted at AOC-004 for the wet season event. The cleanup remedy for this AOC is bioremediation and MA. Figure 24 shows the location of groundwater monitoring wells for which sampling is required under CMP Addendum #3 (CALIBRE, 2020) and bioremediation wells, as well as the groundwater elevations measured during this monitoring event.

3.7.1 Cleanup action activities

No installation/construction activities were conducted for this cleanup action area during the wet season event.

3.7.2 Compliance monitoring plan deviations

No deviations from the CMP occurred for this area during the wet season. The wells monitored in this group changed with Ecology's acceptance of CMP Addendum #3 (CALIBRE, 2020). CPOC area well GW174S was removed from the monitoring program for AOC-004. The COC remained the same (only lead is monitored in this area).

3.7.3 Water levels

Table 16 presents the groundwater elevation measured during the wet season event at AOC-004. Figure 24 shows the groundwater elevation from this event. Groundwater contouring and flow direction cannot be determined from the single groundwater elevation measurement, but a general direction of groundwater flow based on historical information is shown on Figure 24.

3.7.4 Groundwater monitoring results

Results for geochemical indicators are presented in Table 17; results for the AOC-004 COCs are presented in Table 18.

3.7.4.1 Monitored attenuation/geochemical indicators

The geochemical indicator results are presented in Table 17. The pH reading was near neutral at 6.96 standard units. Moderate specific conductivity, DO, and ORP readings were observed during this monitoring event.

3.7.4.2 COC results for source area

The source area well in this group was analyzed for lead and the result was below the CUL of 1 μ g/L. Figure 25 shows the historical trend chart for lead in GW250S.

3.8 AOC-060

This section describes corrective action activities conducted at AOC-060 for the wet season event. The cleanup remedy for this AOC is bioremediation and MA. Figure 26 shows the location of groundwater monitoring wells for which sampling is required under CMP Addendum #3 (CALIBRE, 2020) and bioremediation wells, as well as the groundwater elevations measured during this monitoring event.



3.8.1 Cleanup action activities

No installation/construction activities were conducted for this cleanup action area during the wet season event.

3.8.2 Compliance monitoring plan deviations

No deviations from the CMP occurred for this area during the wet season. The wells monitored in this group changed with Ecology's acceptance of CMP Addendum #3 (CALIBRE, 2020). GW149S, GW252S, and GW254S were removed from the monitoring program. COCs in the monitoring group remained the same.

3.8.3 Water levels

Table 19 presents the groundwater elevations measured during the wet season event at AOC-060. Figure 26 shows the groundwater elevations from this event. Groundwater flow direction is generally to the west, toward the Cedar River Waterway. Groundwater contouring and direction of groundwater flow is shown on Figure 26.

3.8.4 Groundwater monitoring results

Results for geochemical indicators are presented in Table 20; results for the AOC-060 COCs are presented in Table 21.

3.8.4.1 Monitored attenuation/geochemical indicators

The geochemical indicator results are presented in Table 20. Results during this monitoring event showed high specific conductivity and low DO. The pH was near neutral in this AOC, with all wells between 6.0 and 7.0 standard units. TOC results ranged from 2.3 to 8.2 mg/L.

3.8.4.2 COC results for source and downgradient plume areas

Wells in this group were analyzed for cis-1,2-DCE, TCE, and VC (Table 21). Groundwater from all source area and downgradient plume area wells exceeded the CULs for cis-1,2-DCE and VC. Wells GW009S, GW012S, and GW147S exceeded the CUL for TCE. Figure 27 shows historical trends for COCs in source area well GW009S, which have been stable since monitoring began. Figures 27 and 28 show historical trends for COCs in downgradient plume area wells. COC results in GW014S have been generally stable since monitoring began, but GW012S and GW147S exhibit more fluctuation in COC concentrations, possibly due to seasonal groundwater flow variations. TCE in GW012S appears to have stabilized over the past several monitoring events.

3.8.4.3 COC results for conditional point of compliance area

Groundwater from both CPOC area wells exceeded the CUL for cis-1,2-DCE. Detections of VC were present in groundwater from both CPOC area wells but did not exceed the CUL. Figure 29 shows historical trends of COCs in CPOC area wells GW150S and GW253I. Considerable fluctuation is still present for cis-1,2-DCE and VC, but TCE appears to be stabilizing in both CPOC area wells.

3.9 AOC-090

This section describes corrective action activities conducted at AOC-090 for the wet season event. The cleanup remedy for this AOC is bioremediation and MA. Figure 30 shows the location of groundwater monitoring wells for which sampling is required under CMP Addendum #3 (CALIBRE, 2020) and bioremediation wells, as well as the groundwater elevations measured during this monitoring event.



3.9.1 Cleanup action activities

No installation/construction activities were conducted for this cleanup action area during the wet season event.

3.9.2 Compliance monitoring plan deviations

One minor deviation from the CMP occurred for this area during the wet season: the reporting limit for 1,1,2,2-tetrachloroethane was elevated above the CUL due to interference during the analysis. The analyte was not detected at the reporting limit; however, this does not meet the precision goals of the CMP. More details are available in Appendix C. The wells and COCs monitored in this group changed with Ecology's acceptance of CMP Addendum #3 (CALIBRE, 2020). Wells GW163I, GW165I, GW175I, GW177I, GW179I, and GW180S were removed from the monitoring program. Analytes were reduced to chlorinated VOCs and TPH in GW189S, and VC in the remaining wells.

3.9.3 Water levels

Table 22 presents the groundwater elevations measured during the wet season event at AOC-090. Figure 30 shows the groundwater elevations from this event. Groundwater flow direction is to the west, toward the Cedar River Waterway; however, the sheet pile wall to the west of this area prevents a direct groundwater connection to the river, as depicted by the contours.

3.9.4 Groundwater monitoring results

Results for geochemical indicators are presented in Table 23; results for the AOC-090 COCs are presented in Table 24.

3.9.4.1 Monitored attenuation/geochemical indicators

The geochemical indicator results are presented in Table 23. Results in Table 23 indicate that geochemical conditions are consistent throughout this AOC. The pH was near neutral in this AOC, with all wells between 6.23 and 6.55 standard units. Specific conductivity was moderate to high across the wells in this area and DO was relatively low. TOC was measured at 3.30 mg/L in source area well GW189S. The trend plot for TOC in GW189S shows TOC has decreased significantly since the last substrate injection in 2017 (Figure 31).

3.9.4.2 COC results for source and downgradient plume areas

Groundwater from source area well GW189S did not exceed any of the CULs for monitored analytes. The reporting limit for 1,1,2,2-tetrachloroethane was elevated above the CUL but the sample was non-detect at the slightly elevated reporting limit. More details are available in Appendix C. Historical trends for GW189S show chlorinated VOCs are trending downward since the start of monitoring with seasonal fluctuations at a low during this monitoring event (Figure 31). Downgradient plume area well GW176S exceeded the CUL for VC.

3.9.4.3 COC results for conditional point of compliance area

Groundwater from all CPOC area wells exceeded the CUL for VC.

3.10 Building 4-70 area

The Building 4-70 Area was removed from the monitoring program with Ecology's approval of CMP Addendum #3 (CALIBRE, 2020).



3.11 Lot 20/Former Building 10-71 Parcel

The Lot 20/Former Building 10-71 Parcel was removed from the monitoring program with the acceptance of CMP Addendum #3.

3.12 Apron A area

This section describes corrective action activities conducted at the Apron A area during the wet season event. The cleanup remedy proposed for the Apron A area is bioremediation and MA. Figure 32 shows the locations of the groundwater monitoring wells in the Apron A area for which sampling is required under CMP Addendum #3 (CALIBRE, 2020).

3.12.1 Cleanup action activities

No construction or operations work was conducted in the Apron A area during the wet season event.

3.12.2 Compliance monitoring plan deviations

No deviations from the CMP occurred for this area during the wet season. The wells monitored in this group changed with Ecology's acceptance of CMP Addendum #3 (CALIBRE, 2020). Well GW262S was removed from the monitoring program for this area. COCs monitored for this group remained the same.

3.12.3 Water levels

The depth to groundwater measurements during the wet season at Apron A are presented in Table 25 and on Figure 32. Groundwater elevations are not available because the tops of casing elevations were never surveyed. Groundwater flow direction is estimated based on historical information of the area and flows east toward the Cedar River Waterway.

3.12.4 Groundwater monitoring results

Results for primary geochemical indicators for groundwater from groundwater monitoring well GW264S are presented in Table 26; results for COCs from this well are presented in Table 27.

3.12.4.1 Monitored attenuation/geochemical indicators

Geochemical parameters are presented in Table 26. Observations included high specific conductivity, low DO, slightly acidic pH, and a low ORP reading.

3.12.4.2 COC results

Analytes from Apron A samples do not have established CULs because they were added to the monitoring program after the CMP (Amec Foster Wheeler, 2016a) was in place. Additional monitoring of the soil and groundwater in Apron A was completed in 2016 and included installation of the monitoring wells in this area (Amec Foster Wheeler, 2016b). Apron A COCs (cis-1,2-DCE and VC) for GW264S are presented in Table 27. Cis-1,2-DCE was not detected in the groundwater from GW264S. VC was detected in the groundwater from monitoring well GW264S at a concentration of 2.54 μ g/L. This exceeds the CUL for VC of 0.11 μ g/L in SWMU-168, which the closest monitoring area to Apron A on the west side of the Cedar River Waterway. The trend plot for COCs in GW264S is shown in Figure 33.

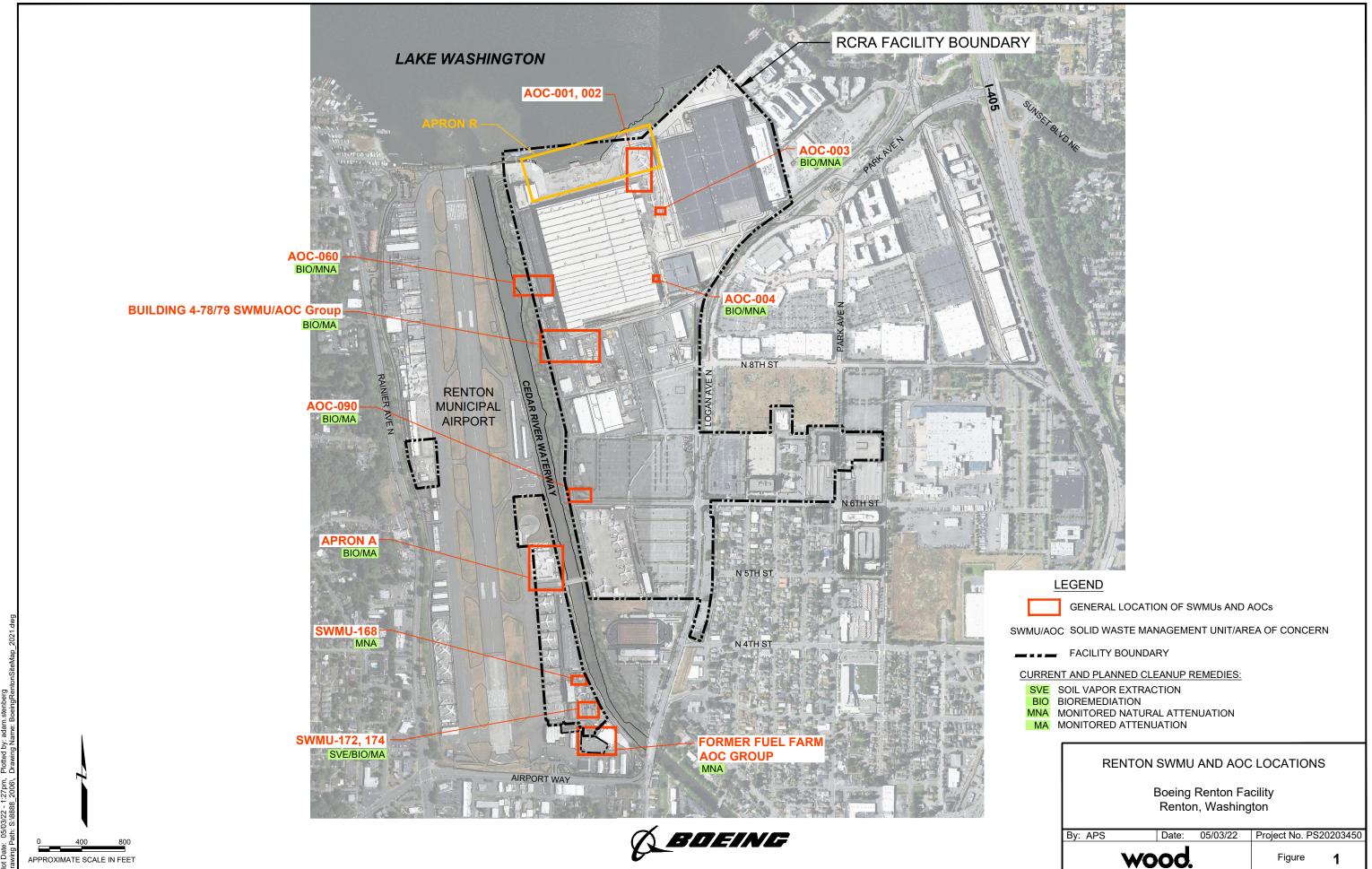


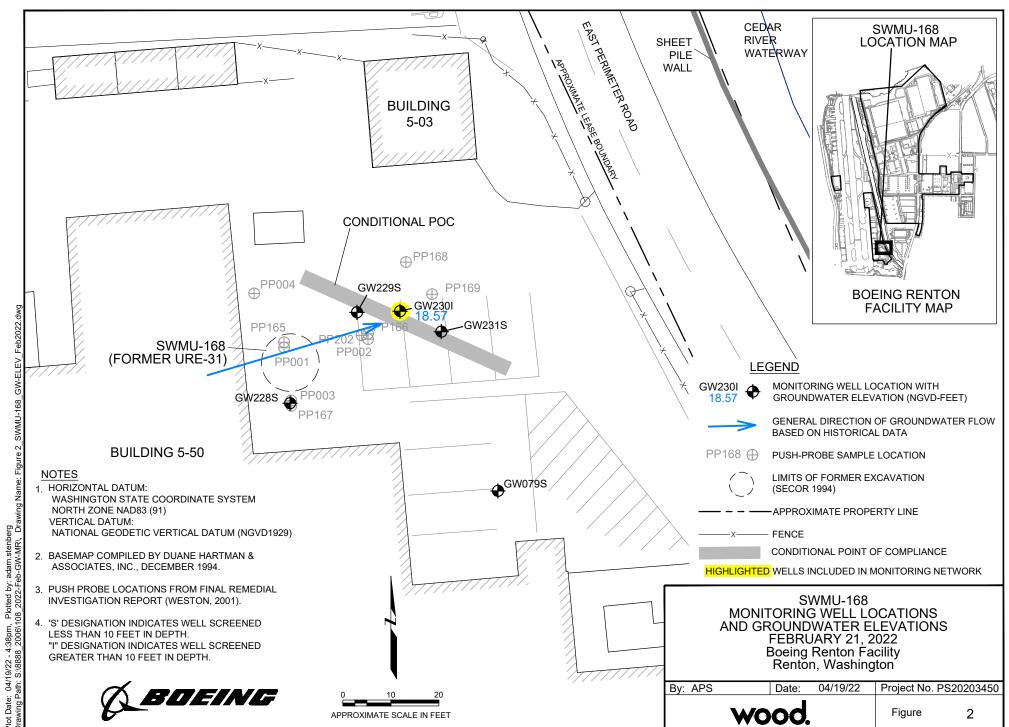
4.0 References

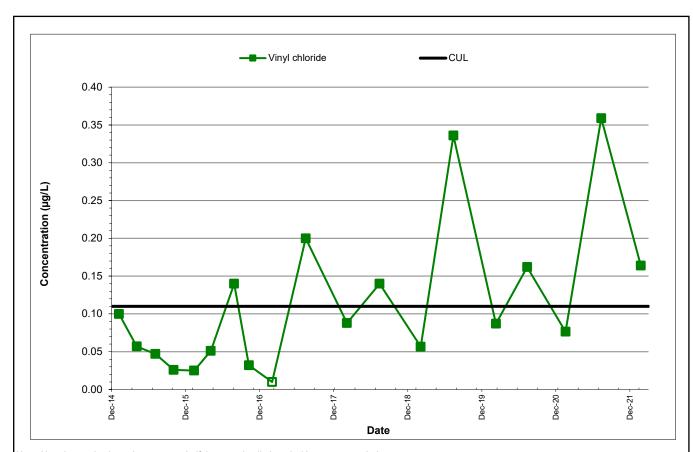
- AMEC Environment & Infrastructure, Inc. (AMEC), 2012, Draft Cleanup Action Plan, Boeing Renton Facility, Renton, Washington, Prepared for The Boeing Company, September.
- ———, 2014, Draft Engineering Design Report, Boeing Renton Cleanup Plan Implementation, Boeing Renton Facility, Renton, Washington, Prepared for The Boeing Company, July.
- Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), 2016a, Compliance Monitoring Plan (CMP), Boeing Renton Facility, Renton, Washington, Prepared for The Boeing Company, February.
- ———, 2016b, Apron A Investigation Results, Renton Municipal Airport—Boeing Apron A, Renton, Washington, June.
- ——, 2016c, Quality Assurance Project Plan, Boeing Renton Facility, Renton, Washington, Prepared for The Boeing Company, February.
- ——, 2017, Addendum to the Compliance Monitoring Plan, Boeing Renton Facility, Renton, Washington, Prepared for The Boeing Company, February.
- CALIBRE Systems, Inc. (CALIBRE), 2020, Evaluation of Recent Groundwater Sampling at the Boeing Renton Facility, Recommendation for Modifications to Compliance Monitoring Plan as Addendum #3 to CMP, June 30.
- ———,2021, Remedial Progress Review and Evaluation of Groundwater Cleanup Levels at the Boeing Renton Plant, May.
- CALIBRE, 2022, Boeing Renton Decommissioning of Groundwater Wells, Technical Memorandum, Rev.1, January 5.
- United States Geological Survey (USGS), 2000, A Retrospective Analysis on the Occurrence of Arsenic in Ground-Water Resources of the United States and Limitations in drinking-Water-Supply Characterizations, *Water-Resources Investigations Report* 99-4279, Prepared in cooperation with the U.S. Environmental Protection Agency Office of Ground Water and Drinking Water.
- Washington State Department of Ecology (Ecology), 1989, Background concentrations of selected chemicals in water, soil, sediments, and air of Washington State, Publication No. 89-09-006.
- ———, 2021, Natural Background Groundwater Arsenic Concentrations in WA State, Results of a Study, Draft for Public Comment, Publication No. 14-09-044, July.
- Wood Environment & Infrastructure Solutions, Inc. (Wood), 2019, Addendum to the Compliance Monitoring Plan, Boeing Renton Facility, Renton, Washington: Prepared for the Boeing Company, April.
- ——, 2021, Apron R Well Abandonment and Replacement: AOC-001 and AOC-002, Boeing Renton Corrective Action Program, Renton, Washington: Prepared for the Boeing Company, November 11.



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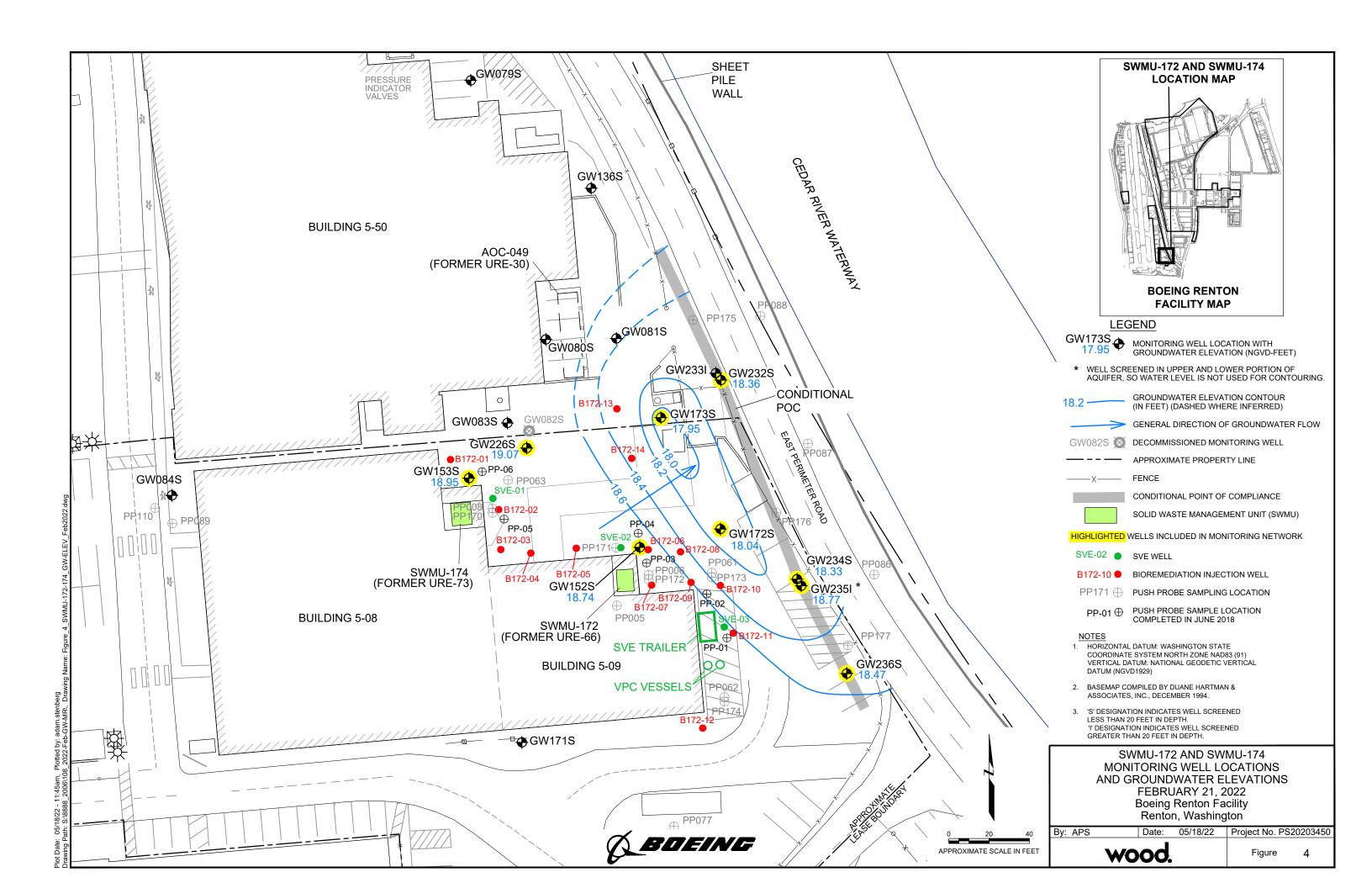


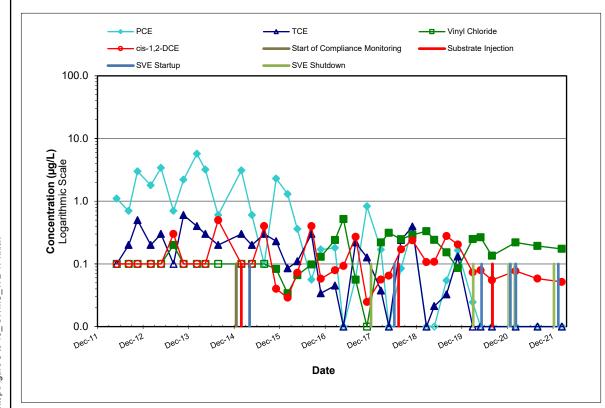


Note: Non-detected values shown at one-half the reporting limit and with an open symbol.

CPOC AREA WELL GW230I







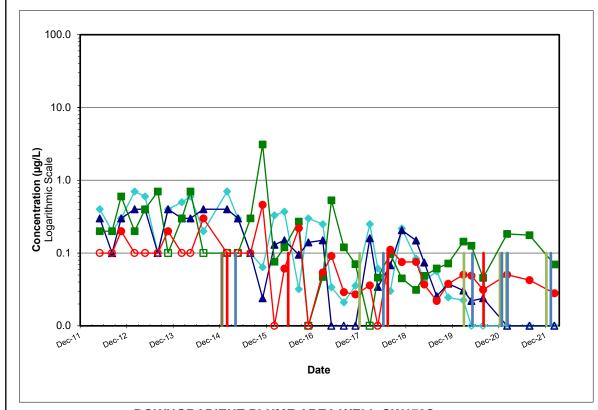
SOURCE AREA WELL GW153S

Note: Non-detected values shown at one-half the reporting limit and with an open symbol.



SWMU-172 AND SWMU-174 TREND PLOTS FOR SOURCE AREA WELLS GW152S AND GW153S Boeing Renton Facility Renton, Washington Project No. PS20203450

DOWNGRADIENT PLUME AREA WELL GW172S



DOWNGRADIENT PLUME AREA WELL GW173S

Note: Non-detected values shown at one-half the reporting limit and with an open symbol.



SWMU-172 AND SWMU-174 TREND PLOTS FOR DOWNGRADIENT PLUME AREA WELLS GW172S AND GW173S

Boeing Renton Facility

Renton, Washington

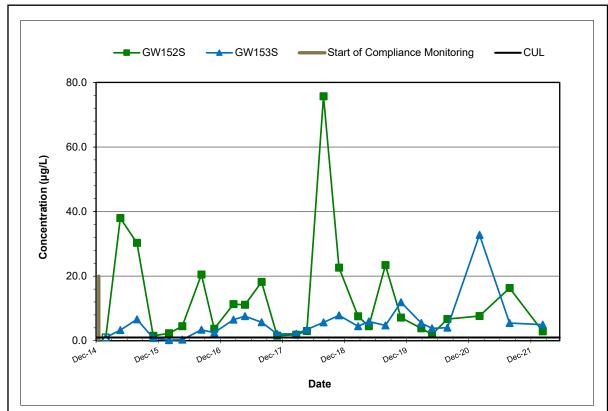
Project No. PS20203450

Note: Non-detected values shown at one-half the reporting limit and with an open symbol.

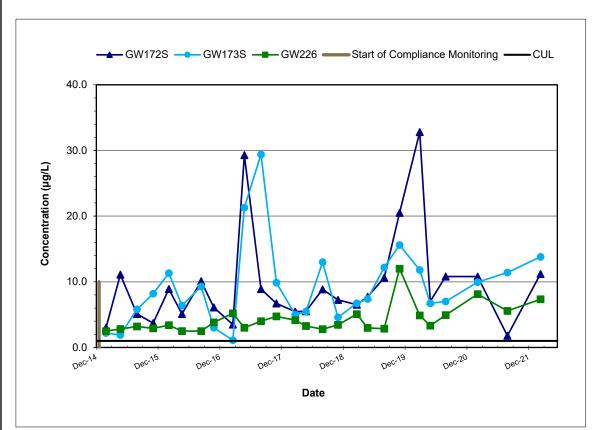
DOWNGRADIENT PLUME AREA WELL GW226S

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TOTAL ARSENIC IN SOURCE AREA WELLS



TOTAL ARSENIC IN DOWNGRADIENT PLUME AREA WELLS

Note: Non-detected values shown at one-half the reporting limit and with an open symbol.



SWMU-172 AND SWMU-174 TREND PLOTS FOR ARSENIC IN SELECT SOURCE AREA AND DOWNGRADIENT PLUME AREA WELLS START OF COMPLIANE MONITORING TO PRESENT Boeing Renton Facility, Renton, Washington

Project No. PS20203450

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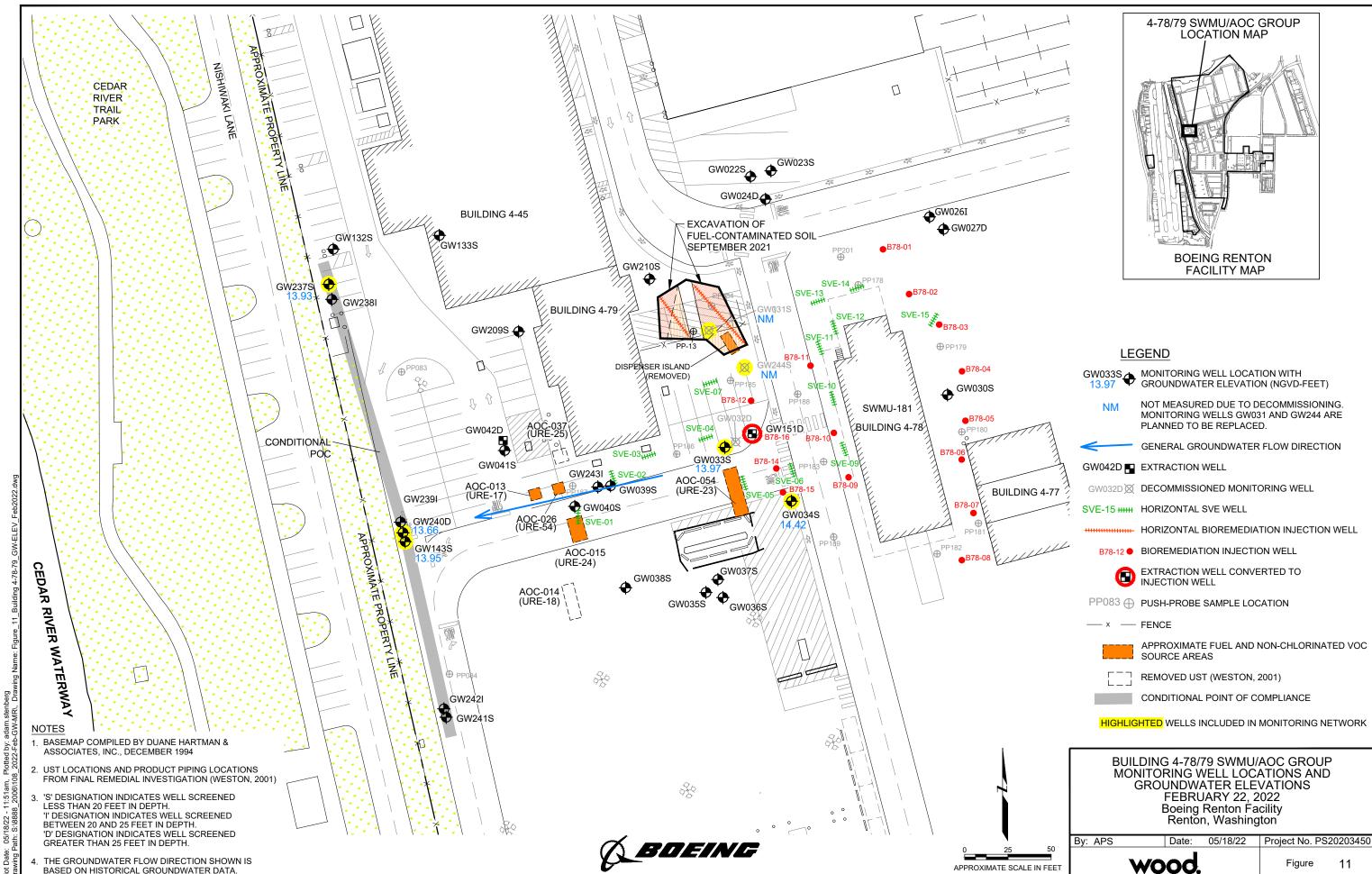
wood.

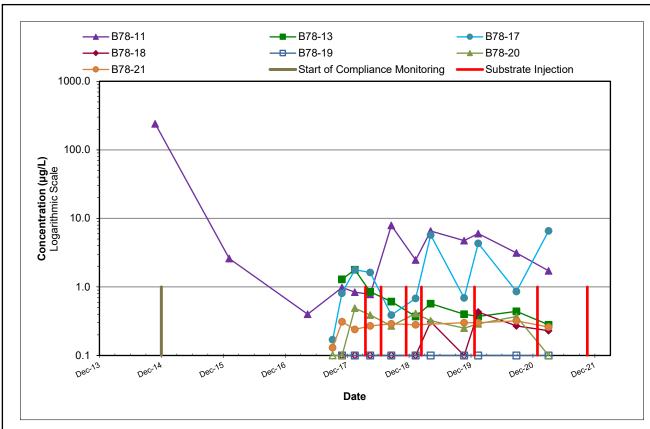
Note: Non-detected values shown at one-half the reporting limit and with an open symbol.

SWMU-172 AND SWMU-174 TREND PLOTS FOR ARSENIC, COPPER

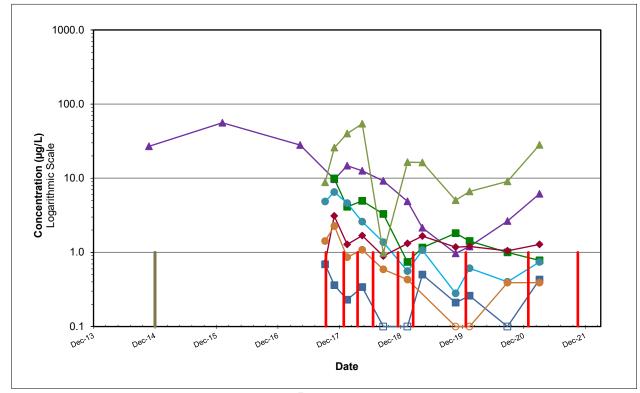
AND LEAD IN CPOC AREA WELLS
START OF COMPLIANCE MONITORING TO PRESENT
Boeing Renton Facility, Renton, Washington

Project No. PS20203450





cis-1,2-Dichloroethene



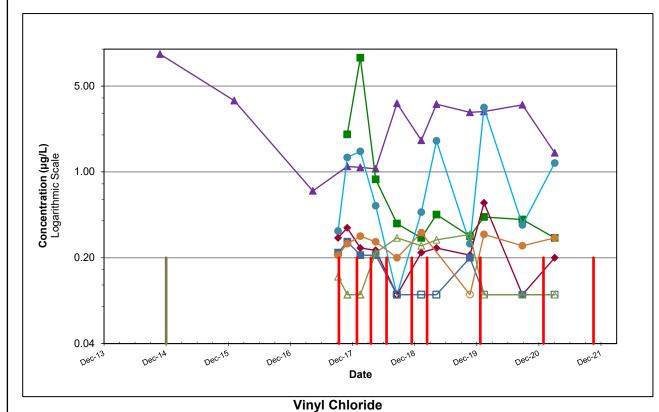
Benzene

Note: Non-detected values shown at one-half the reporting limit and with an open symbol.

wood.

BUILDING 4-78/79 SWMU/AOC GROUP TREND PLOTS FOR CIS-1,2-DICHLOROETHENE AND BENZENE IN INJECTION WELLS Boeing Renton Facility Renton, Washington

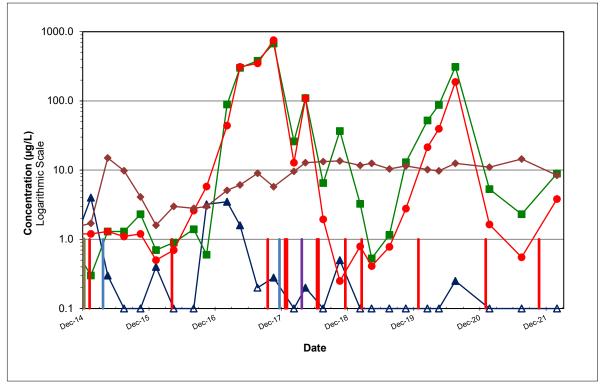
Project No. PS20203450



Note: Non-detected values shown at one-half the reporting limit and with an open symbol.

BUILDING 4-78/79 SWMU/AOC GROUP TREND PLOTS FOR TRICHLOROETHENE AND VINYL CHLORIDE IN INJECTION WELLS Boeing Renton Facility Renton, Washington

Project No. PS20203450



SOURCE AREA WELL GW033S

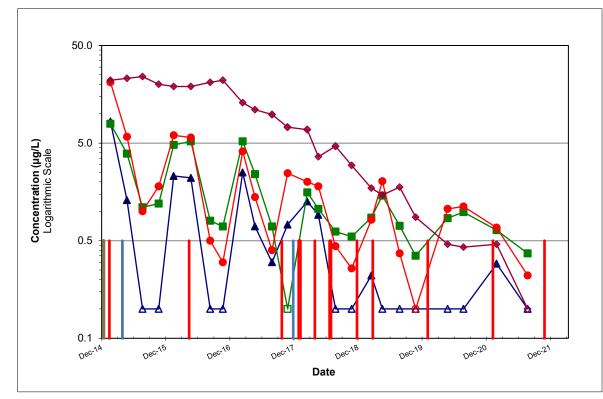
Note: Non-detected values shown at one-half the reporting limit and with an open symbol. GW031S was not sampled in February 2022, it is scheduled to be replaced prior to the August 2022 sampling event.



BUILDING 4-78/79 SWMU/AOC GROUP TREND PLOTS FOR SOURCE AREA WELLS GW031S AND GW033S Boeing Renton Facility Renton, Washington

Project No. PS20203450

SOURCE AREA WELL GW034S

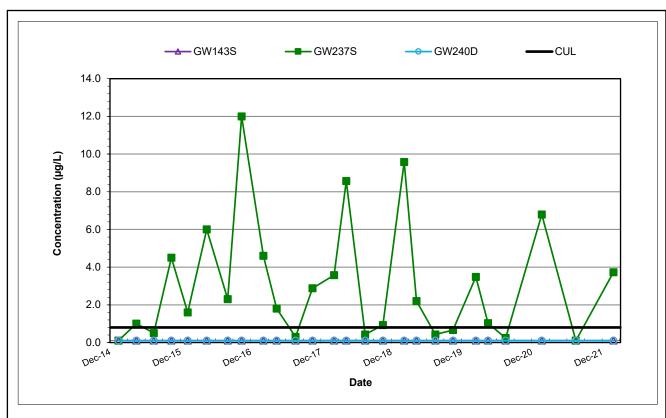


SOURCE AREA WELL GW244S

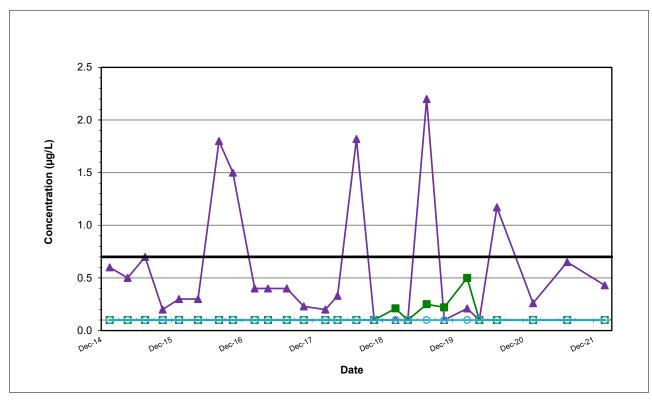
Note: Non-detected values shown at one-half the reporting limit and with an open symbol. GW244S was not sampled in February 2022, it is scheduled to be replaced prior to the August 2022 sampling event.



BLDG 4-78/79 SWMU/AOC GROUP TREND PLOTS FOR SOURCE AREA WELLS GW034S AND GW244S Boeing Renton Facility Project No. PS20203450



Benzene



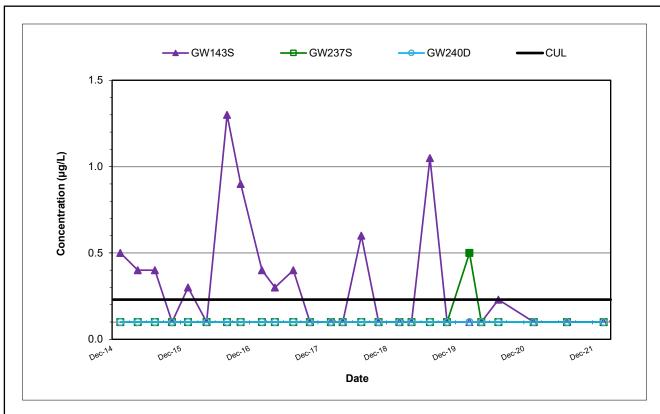
cis-1,2-Dichloroethene

Note: Non-detected values shown at one-half the reporting limit and with an open symbol.

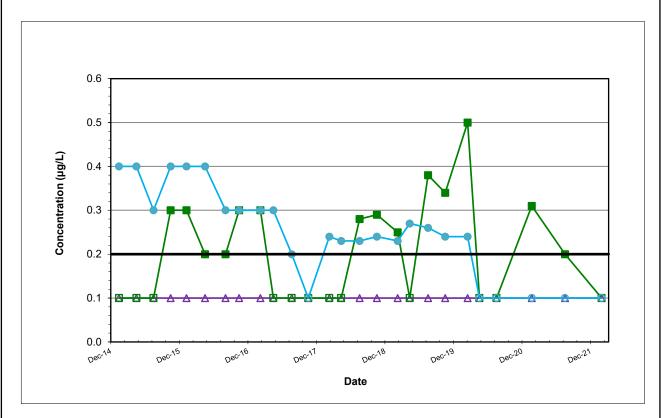
wood.

BUILDING 4-78/79 SWMU/AOC GROUP TREND PLOTS FOR BENZENE AND CIS-1,2-DICHLOROETHENE IN CPOC AREA WELLS Boeing Renton Facility Renton, Washington

Project No. PS20203450



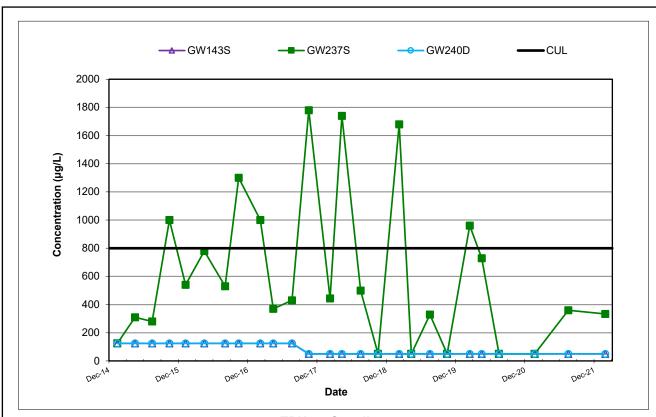
Trichloroethene



Vinyl Chloride

Note: Non-detected values shown at one-half the reporting limit and with an open symbol.

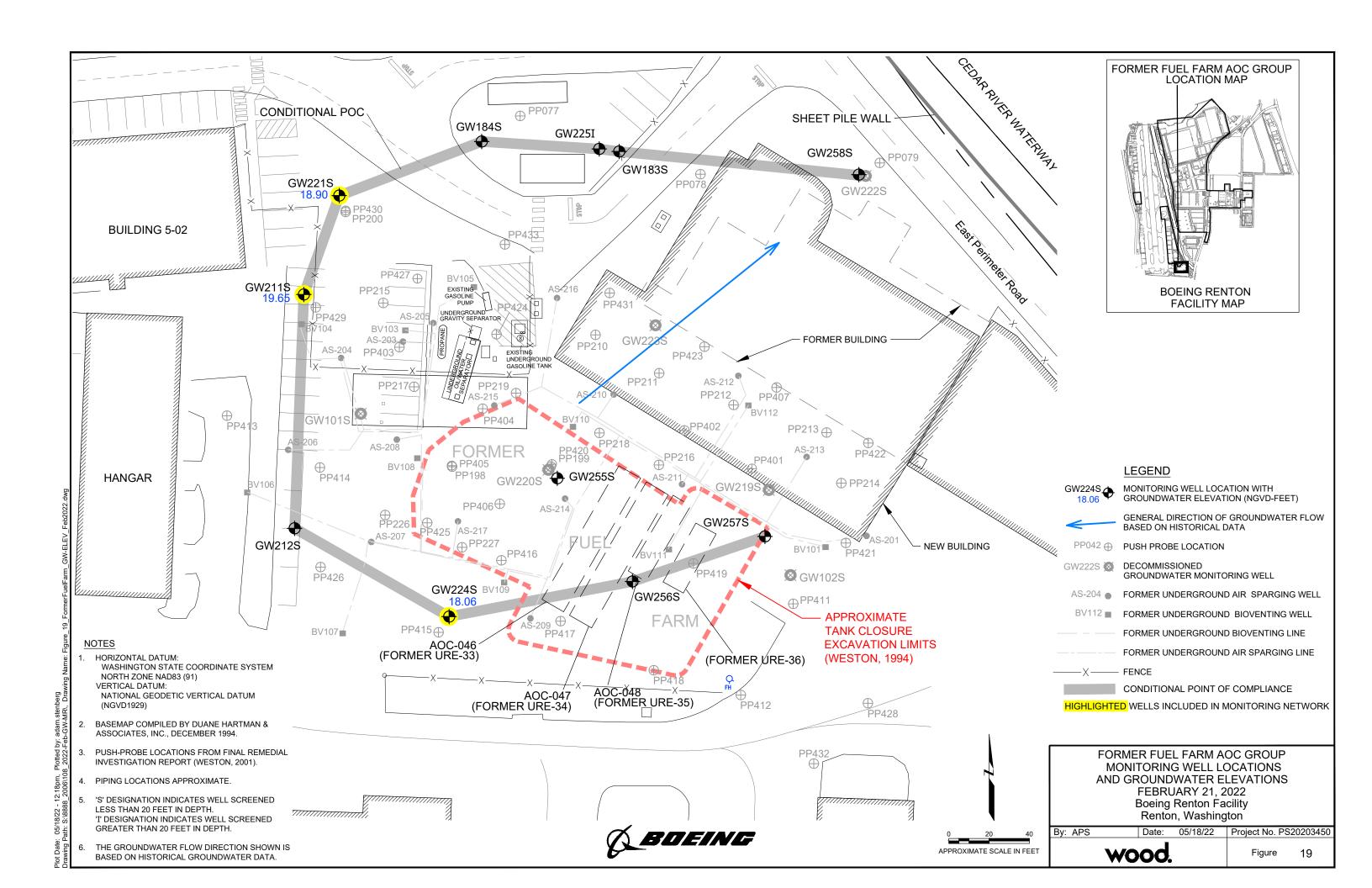


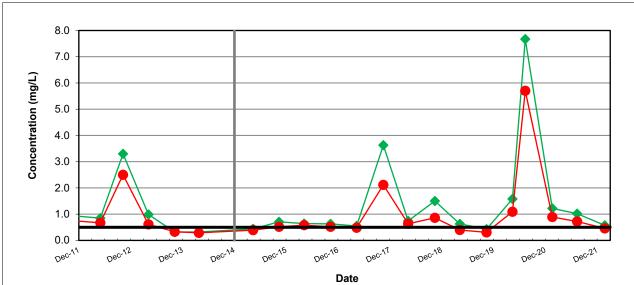


TPH as Gasoline

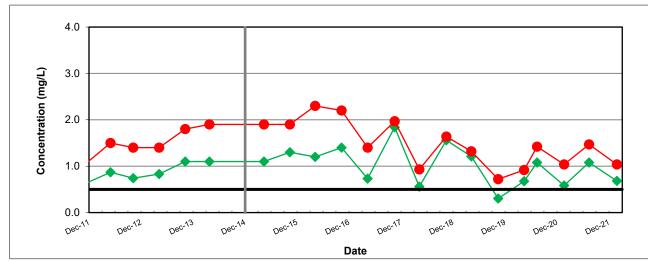
Note: Non-detected values shown at one-half the reporting limit and with an open symbol.







CPOC WELL GW221S



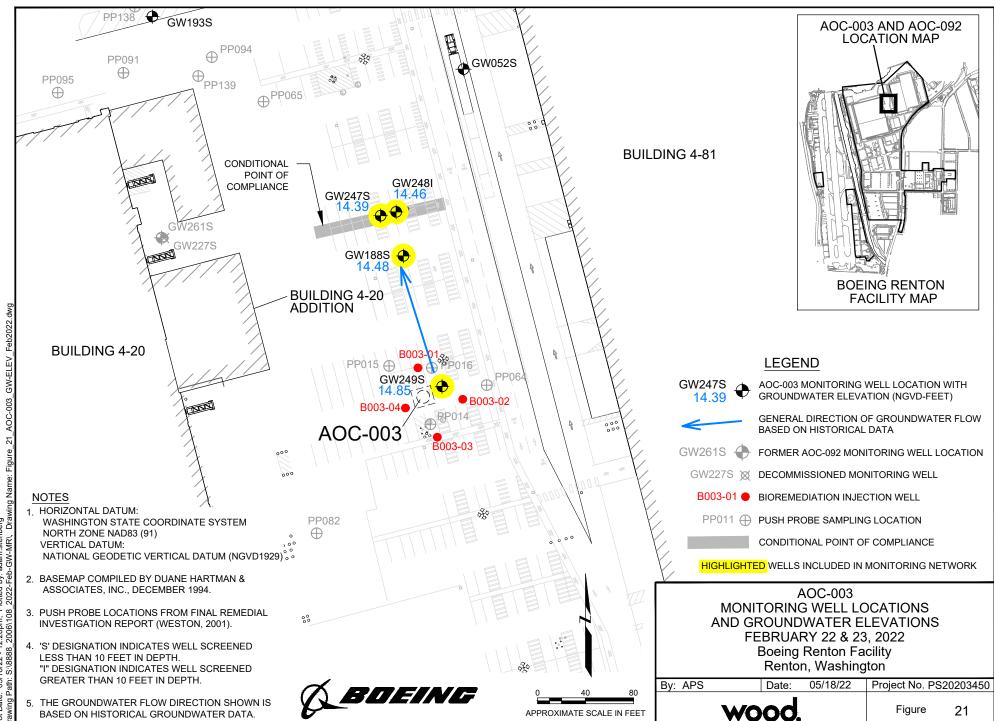
CPOC WELL GW224S

Note: Non-detected values shown at one-half the reporting limit and with an open symbol. Reporting limits were elevated for February 2022 results in GW211S.

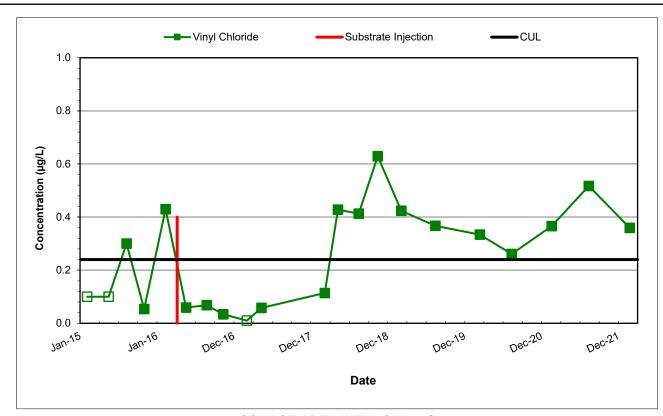


Figure 20

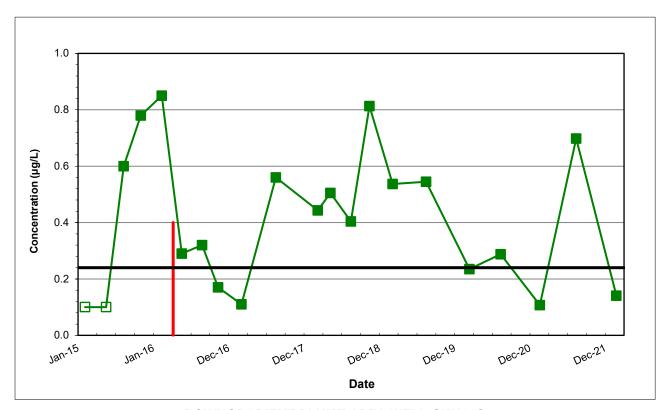
C:\Users\chelsea.foster\Desktop\Figure 20_FFF CPOC trend plot.xls



05/18/22 - 12:26pm,



SOURCE AREA WELL GW249S



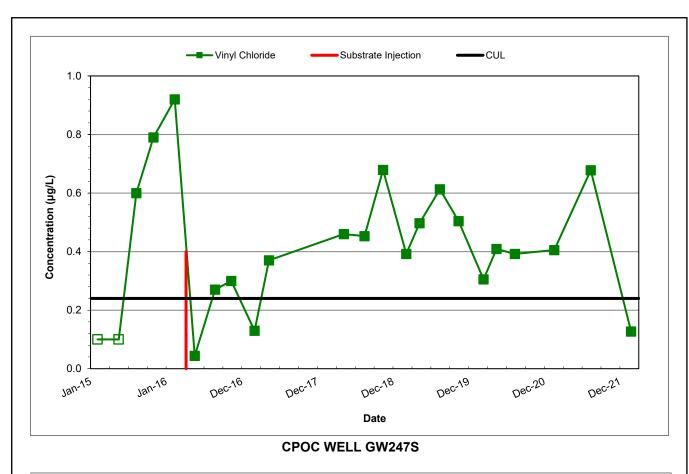
DOWNGRADIENT PLUME AREA WELL GW188S

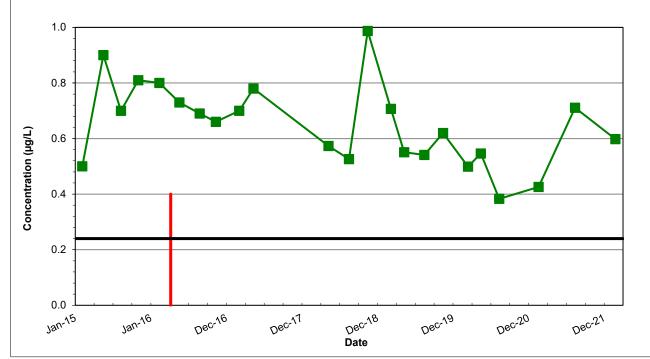
Note: Non-detected values shown at one-half the reporting limit and with an open symbol

wood.

AOC-003 TREND PLOTS FOR SOURCE AREA WELL GW249S
AND DOWNGRADIENT PLUME AREA WELL GW188S
Boeing Renton Facility
Renton, Washington

Project No. PS20203450





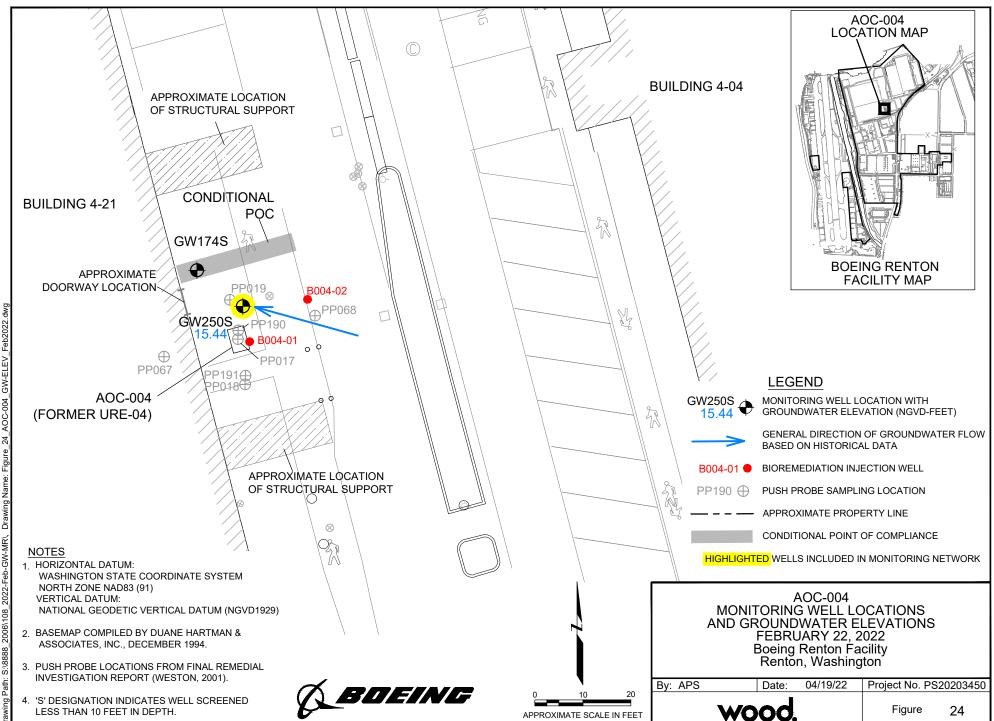
CPOC WELL GW248I

Note: Non-detected values shown at one-half the reporting limit and with an open symbol

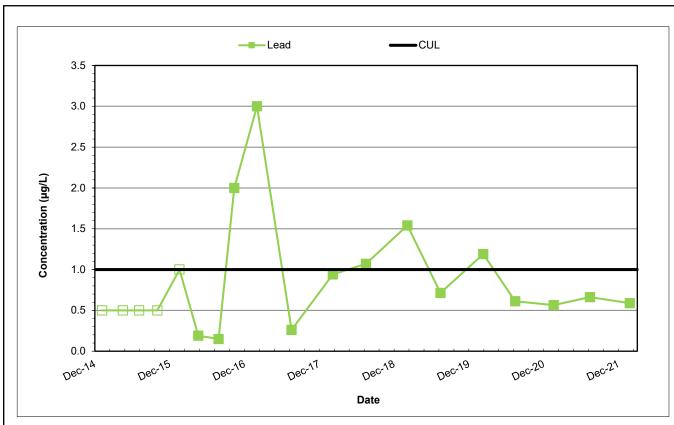
wood.

AOC-003 TREND PLOTS FOR CPOC WELLS GW247S AND GW248I
Boeing Renton Facility
Renton, Washington

Project No. PS20203450



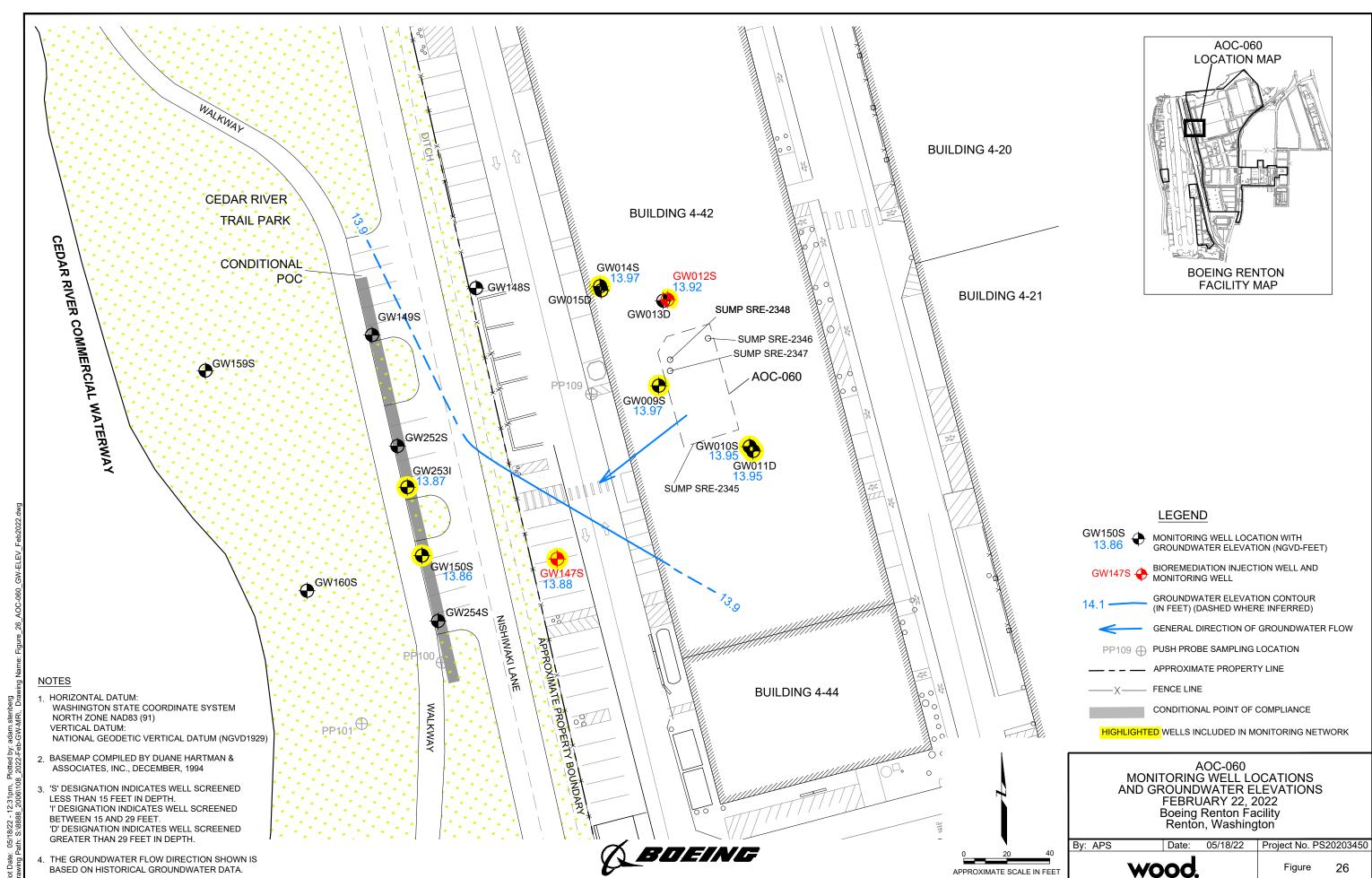
Plot Date: 04/19/22 - 4:36pm, Plotted by: adam.stenberg Drawing Path: \$\,8888 2006\108 2022-Feb-GW-MR\. Drawing Name: Figure 24 AOC-00-

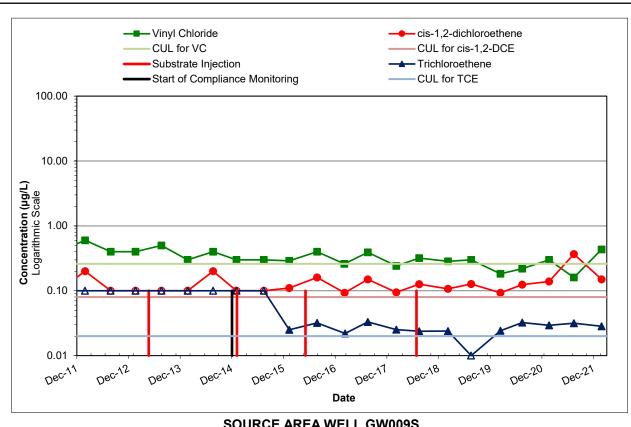


SOURCE AREA WELL GW250S

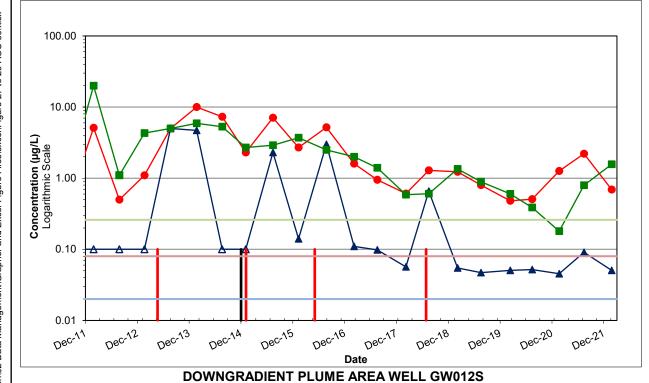
Note: Non-detected values shown at one-half the reporting limit and with an open symbol







SOURCE AREA WELL GW009S



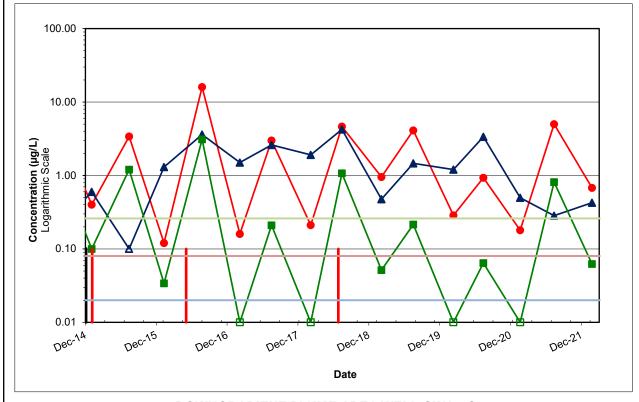
Note: Non-detected values shown at one-half the reporting limit and with an open symbol.



AOC-060 TREND PLOTS FOR SOURCE AREA WELL GW009S AND DOWNGRADIENT PLUME AREA WELL GW012S **Boeing Renton Facility** Renton, Washington

Project No. PS20203450

DOWNGRADIENT PLUME AREA WELL GW014S

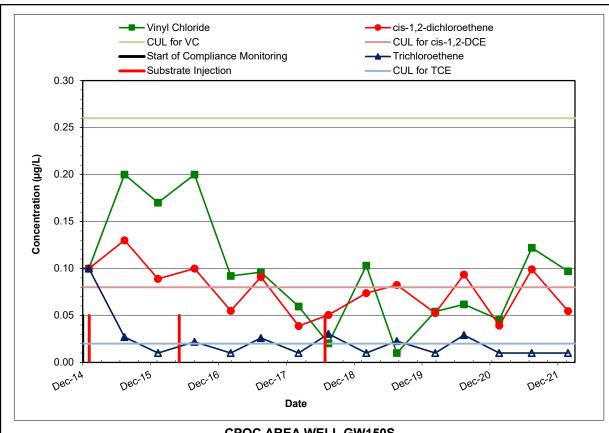


DOWNGRADIENT PLUME AREA WELL GW147S

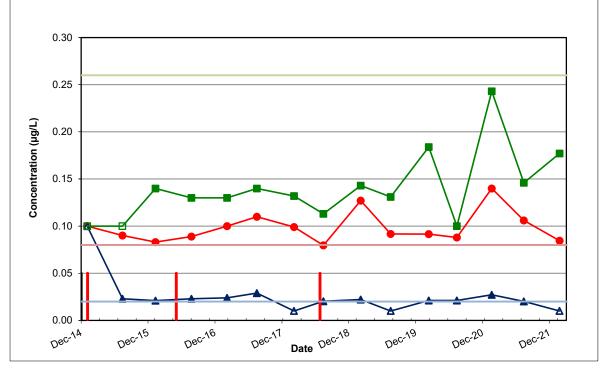
Note: Non-detected values shown at one-half the reporting limit and with an open symbol.



AOC-060 TREND PLOTS FOR DOWNGRADIENT PLUME AREA WELLS GW014S AND GW147S Boeing Renton Facility Renton, Washington Project No. PS20203450



CPOC AREA WELL GW150S



CPOC AREA WELL GW253I

Note: Non-detected values shown at one-half the reporting limit and with an open symbol.

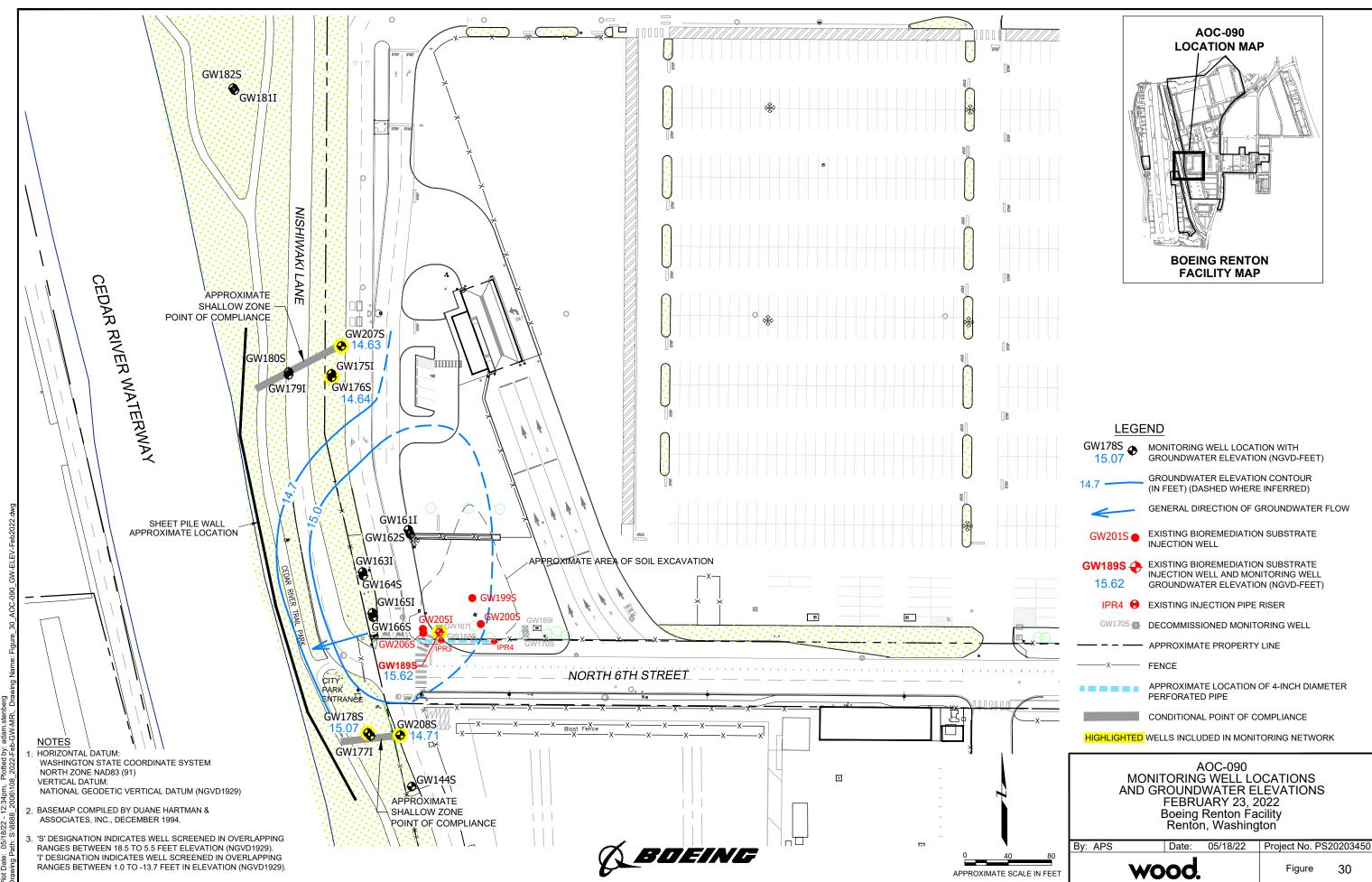
wood.

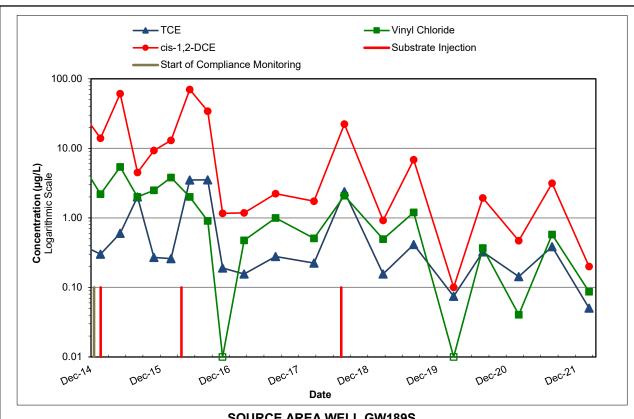
AOC-060 TREND PLOTS FOR CPOC AREA WELLS GW150S AND GW253I Boeing Renton Facility Renton, Washington

Project No. PS20203450

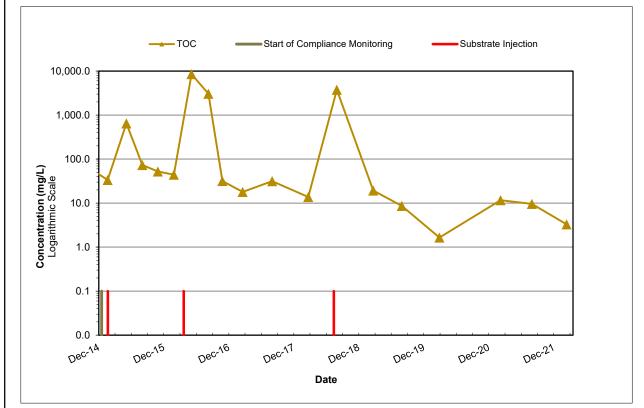
Figure 29

P:\8888 - Boeing Renton\02 Data Management\Grapher and Excel Figure Files\exce\Figure 27 to 29 AOC 60.xlsx





SOURCE AREA WELL GW189S



Note: Non-detected values shown at one-half the reporting limit and with an open symbol.

wood.

AOC-090 TREND PLOTS FOR SOURCE AREA WELL GW189S **Boeing Renton Facility** Renton, Washington

Project No. PS20203450

Note: Non-detected values shown at one-half the reporting limit and with an open symbol.



wood.

Tables

TABLE 1: SWMU-168 GROUNDWATER ELEVATION DATA FEBRUARY 21, 2022

Boeing Renton Facility, Renton, Washington

Well ID ¹	Screen Interval Depth (feet bgs)	TOC Elevation (feet) ²	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) ²
GW230I	4 to 14	24.86	6.29	18.57

Notes:

- 1. I = intermediate well.
- 2. Elevations in feet relative to National Geodetic Vertical Datum of 1929.

Abbreviations:

bgs = below ground surface SWMU = solid waste management unit TOC = top of casing

TABLE 2: SWMU-168 PRIMARY GEOCHEMICAL INDICATORS ¹ FEBRUARY 21, 2022

Boeing Renton Facility, Renton, Washington

	Well ID ²
	CPOC Area
Parameter	GW230I
Temperature (degrees C)	9.1
Specific Conductivity (µS/cm)	248.4
Dissolved Oxygen (mg/L)	0.49
pH (standard units)	6.41
Oxidation/Reduction Potential (mV)	84.2

Notes:

- 1. Primary geochemical indicators are measured in the field.
- 2. I = intermediate well.

Abbreviations:

µS/cm = microsiemens per centimeter CPOC = conditional point of compliance degrees C = degrees Celsius mg/L = milligrams per liter mV = millivolts SWMU = solid waste management unit

TABLE 3: SWMU-168 CONCENTRATIONS OF CONSTITUENTS OF CONCERN ^{1, 2} FEBRUARY 21, 2022

Boeing Renton Facility, Renton, Washington

Analyte	Cleanup Level ³	Well ID ⁴ CPOC Area GW230I
Volatile Organic Compounds (µg/L)		
Vinyl Chloride	0.11	0.164

Notes:

- 1. Data qualifiers are as follows:
 - J = the value is estimated.
- 2. **Bolded** values exceed the cleanup levels.
- 3. Cleanup levels obtained from Table 2 of the Cleanup Action Plan.
- 4. I = intermediate well.

Abbreviations:

μg/L = micrograms per liter CPOC = conditional point of compliance SWMU = solid waste management unit

TABLE 4: SWMU-172 AND SWMU-174 GROUP GROUNDWATER ELEVATION DATA FEBRUARY 21, 2022

Boeing Renton Facility, Renton, Washington

Well ID ¹	Screen Interval Depth (feet bgs)	TOC Elevation (feet) ³	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) ³
GW152S	5 to 20 ²	26.98	8.24	18.74
GW153S	5 to 20 ²	27.47	8.52	18.95
GW172S	8 to 18 ²	26.44	8.40	18.04
GW173S	8 to 18 ²	26.51	8.56	17.95
GW226S	5 to 20 ²	26.86	7.79	19.07
GW232S	4 to 14	24.45	6.09	18.36
GW234S	3 to 13	24.95	6.62	18.33
GW235I	15 to 25	24.90	6.13	18.77
GW236S	5 to 15	24.36	5.89	18.47

Notes:

- 1. S = shallow well; I = intermediate well.
- 2. Screen intervals are approximate and based on database listings of the screen interval depths for these wells.
- 3. Elevations in feet relative to National Geodetic Vertical Datum of 1929.

Abbreviations:

bgs = below ground surface SWMU = solid waste management unit TOC = top of casing

TABLE 5: SWMU-172 AND SWMU-174 GROUP PRIMARY GEOCHEMICAL INDICATORS ¹ FEBRUARY 21, 2022

Boeing Renton Facility, Renton, Washington

	Well ID ²										
		Source Area		Downgradient Plume Area			CPOC Area				
Parameter	CW1F3F	GW152S			CW1736	CM3366	CM3336	CW3346	CWASE	cwasce	
	GW152S	(field dup.)	GW153S	GW172S	GW173S	GW226S	GW232S	GW234S	GW235I	GW236S	
Temperature (degrees C)	9.1	9.1	9.1	8.7	8.7	6.7	8.0	7.9	7.8	6.6	
Specific Conductivity (µS/cm)	149.6	149.6	204.5	277.1	263.4	244.9	352.6	155.8	140.6	180.4	
Dissolved Oxygen (mg/L)	0.58	0.58	0.87	1.03	0.69	0.66	1.31	1.43	0.81	2.09	
pH (standard units)	6.21	6.21	6.59	6.54	6.66	6.66	6.29	6.19	6.31	6.11	
Oxidation/Reduction Potential (mV)	90.8	90.8	72.9	-74.6	77.3	57.6	78.5	-11.7	-2.3	36.5	
Total Organic Carbon (mg/L)	1.50	1.40	5.70	3.40	4.73	7.80	6.2	1.5	0.50	1.80	

Notes

1. Primary geochemical indicators are measured in the field, with the exception of total organic carbon, which is measured in the laboratory.

2. S = shallow well; I = intermediate well.

<u>Abbreviations</u>

 μ S/cm = microsiemens per centimeter

CPOC = conditional point of compliance

degrees C = degrees Celsius

field dup. = field duplicate

mg/L = milligrams per liter

mV = millivolts

SWMU = solid waste management unit

TABLE 6: SWMU-172 AND SWMU-174 GROUP CONCENTRATIONS OF CONSTITUENTS OF CONCERN ^{1, 2} FEBRUARY 21, 2022

Boeing Renton Facility, Renton, Washington

			Well ID ³									
			Source Area			Downgradient Plume Area			CPOC Area			
	Cleanup		GW152S									
Analyte	Level ⁴	GW152S	(field dup.)	GW153S	GW172S	GW173S	GW226S	GW232S	GW234S	GW235I	GW236S	
Volatile Organic Compounds (µg	/olatile Organic Compounds (μg/L)											
cis -1,2-Dichloroethene	0.03	1.57	1.59	0.0517	0.0532	0.0280	0.0363	0.197	0.0591	0.175	0.0200 U	
Tetrachloroethene	0.02	1.84	1.71	0.0200 U	0.0677	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0206	
Trichloroethene	0.02	0.522	0.497	0.0200 U	0.0201	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0253	0.0200 U	
Vinyl Chloride	0.11	0.200	0.219	0.174	0.137	0.0696	0.0414	0.307	0.0318	0.0259	0.0200 U	
Total Metals (µg/L)												
Arsenic	1.0	2.88	2.34	4.98	11.2	13.8	7.33	3.75	1.76	0.200 U	1.97	
Copper	3.5	5.07	3.88	1.45	2.86	2.58	2.40	1.09	2.13	0.687	5.27	
Lead	1.0	2.78 J	1.90 J	0.302	1.37	0.788	0.237	0.234	0.930	0.159	3.32	

Notes:

- 1. Data qualifiers are as follows:
 - U = The analyte was not detected at the reporting limit indicated.
 - J = the value is estimated.
- 2. **Bolded** values exceed the cleanup levels.
- 3. S = shallow well; I = intermediate well.
- 4. Cleanup levels obtained from Table 2 of the Cleanup Action Plan.

Abbreviations:

 μ g/L = micrograms per liter

CPOC = conditional point of compliance

field dup. = field duplicate

SWMU = solid waste management unit

TABLE 7: BUILDING 4-78/79 SWMU/AOC GROUP GROUNDWATER ELEVATION DATA FEBRUARY 22, 2022

Boeing Renton Facility, Renton, Washington

Well ID ¹	Screen Interval Depth (feet bgs)	TOC Elevation (feet) ²	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) ²
GW031S	5 to 25	19.44	NM	NM
GW033S	5 to 25	19.49	5.52	13.97
GW034S	5 to 25	19.65	5.67	14.42
GW143S	10 to 15	19.81	5.86	13.95
GW237S	5 to 15	18.85	4.92	13.93
GW240D	22 to 27	19.81	6.15	13.66
GW244S	5 to 15	19.53	NM	NM

Notes:

- 1. S = shallow well; D = deep well.
- 2. Elevations in feet relative to National Geodetic Vertical Datum of 1929.
- 3. Monitoring wells GW031S and GW244S were decomissioned in fall 2021 and are planned to be replaced.

Abbreviations:

AOC = area of concern

bgs = below ground surface

NM = not measured

SWMU = solid waste management unit

TOC = top of casing

TABLE 8: BUILDING 4-78/79 SWMU/AOC GROUP PRIMARY GEOCHEMICAL INDICATORS ¹ FEBRUARY 22, 2022

Boeing Renton Facility, Renton, Washington

	Well ID ²								
			Source Area			CPOC Area			
		GW033S							
Parameter	GW031S ³	GW033S	(field dup.)	GW034S	GW244S ³	GW143S	GW237S	GW240D	
Temperature (degrees C)	NA	8.5	8.5	5.1	NA	7.2	4.6	7.0	
Specific Conductivity (µS/cm)	NA	384.5	384.5	234.8	NA	270.3	167.8	224.5	
Dissolved Oxygen (mg/L)	NA	2.32	2.32	1.34	NA	0.88	1.05	0.79	
pH (standard units)	NA	5.97	5.97	6.08	NA	6.23	6.36	6.22	
Oxidation/Reduction Potential (mV)	NA	-62.0	-62.0	-50.0	NA	-43.6	-35.6	-50.4	
Total Organic Carbon (mg/L)	NA	8.10	8.80	7.70	NA	6.6	6.3	3.7	

Notes

- 1. Primary geochemical indicators are measured in the field, with the exception of total organic carbon, which is measured in the laboratory.
- 2. S = shallow well; D = deep well.
- 3. Monitoring wells GW031S and GW244S were decomissioned in fall 2021 and are planned to be replaced.

Abbreviations

 μ S/cm = microsiemens per centimeter

AOC = area of concern

CPOC = conditional point of compliance

degrees C = degrees Celsius field dup. = field duplicate mg/L = milligrams per liter

mV = millivolts

NA = not analyzed

SWMU = solid waste management unit

TABLE 9: BUILDING 4-78/79 SWMU/AOC GROUP CONCENTRATIONS OF CONSTITUENTS OF CONCERN ^{1, 2} FEBRUARY 22, 2022

Boeing Renton Facility, Renton, Washington

			:	Source Area			CPOC Area		
Analyte	Cleanup Level ⁴	GW031S⁵	GW033S	GW033S (field dup.)	GW034S	GW244S⁵	GW143S	GW237S	GW240D
	Volatile Organic Compounds (µg/L)								
Benzene	0.80	NA	8.41	8.57	0.200 U	NA	0.200 U	3.73	0.200 U
cis -1,2-Dichloroethene	9 0.70	NA	3.82	4.04	0.200 U	NA	0.430	0.200 U	0.200 U
Trichloroethene	0.23	NA	0.200 U	0.200 U	0.200 U	NA	0.200 U	0.200 U	0.200 U
Vinyl Chloride	0.20	NA	8.90	9.28	0.330	NA	0.200 U	0.200 U	0.200 U
Total Petroleum Hydrocarbons (μg/L)									
TPH-G (C7-C12)	800	NA	168	166	100 U	NA	100 U	664	100 U

Notes:

- 1. Data qualifiers are as follows:
 - U = The analyte was not detected at the reporting limit indicated.
- 2. **Bolded** values exceed the cleanup levels.
- 3. S = shallow well; D = deep well.
- 4. Cleanup levels obtained from Table 2 of the Cleanup Action Plan.
- $5.\ Monitoring\ wells\ GW031S\ and\ GW244S\ were\ decomissioned\ in\ fall\ 2021\ and\ are\ planned\ to\ be\ replaced.$

Abbreviations:

 μ g/L = micrograms per liter

AOC = area of concern

CPOC = conditional point of compliance

field dup. = field duplicate

NA = not analyzed

SWMU = solid waste management unit

TPH-G = total petroleum hydrocarbons in gasoline range

TABLE 10: FORMER FUEL FARM GROUNDWATER ELEVATION DATA FEBRUARY 21, 2022

Boeing Renton Facility, Renton, Washington

Well ID ¹	Screen Interval Depth (feet bgs)	TOC Elevation (feet) ²	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) ²
GW211S	4.8 to 14.7	27.77	8.12	19.65
GW221S	5 to 15	27.93	9.03	18.90
GW224S	5 to 15	27.98	9.92	18.06

Notes

- 1. S = shallow well
- 2. Elevations in feet relative to National Geodetic Vertical Datum of 1929.

Abbreviations

bgs = below ground surface

TOC = top of casing

TABLE 11: FORMER FUEL FARM PRIMARY GEOCHEMICAL INDICATORS ¹ FEBRUARY 21, 2022

Boeing Renton Facility, Renton, Washington

		Well ID ²					
	CPOC Area						
Parameter	GW211S	GW221S	GW224S				
Temperature (degrees C)	9.6	7.0	8.3				
Specific Conductivity (µS/cm)	194.8	155	129.1				
Dissolved Oxygen (mg/L)	0.28	1.39	1.56				
pH (standard units)	6.63	5.97	5.94				
Oxidation/Reduction Potential (mV)	32.6	16.8	17.1				

Notes

- 1. Primary geochemical indicators are measured in the field.
- 2. S = shallow well.

Abbreviations

µS/cm = microsiemens per centimeter CPOC = conditional point of compliance degrees C = degrees Celsius mg/L = milligrams per liter mV = millivolts

TABLE 12: FORMER FUEL FARM CONCENTRATIONS OF CONSTITUENTS OF CONCERN ^{1, 2} FEBRUARY 21, 2022

Boeing Renton Facility, Renton, Washington

		Well ID ³							
			CPOC	Area					
	Cleanup				GW224S				
Analyte	Level ⁴	GW211S	GW221S	GW224S	(field dup.)				
Total Petroleum Hydrocarbo	ns (mg/L)								
TPH-D (C12-C24)	0.5	1.00 U	0.575	0.682	1.01				
TPH-O (C24-C38)	NC	2.00 U	0.200 U	0.200 U	0.200 U				
Jet A (C10-C18)	0.5	1.00 U	0.460	1.04	1.76				

Notes

- 1. Data qualifiers are as follows:
 - U = The analyte was not detected at the reporting limit indicated.
- 2. **Bolded** values exceed the cleanup levels.
- 3. S = shallow well.
- 4. Cleanup levels obtained from Table 2 of the Cleanup Action Plan.

Abbreviations

CPOC = conditional point of compliance

field dup. = field duplicate

mg/L = milligrams per liter

NC = No cleanup level established

TPH-D = total petroleum hydrocarbons as diesel

TPH-O = total petroleum hydrocarbons as motor oil

TABLE 13: AOC-003 GROUNDWATER ELEVATION DATA FEBRUARY 22 & 23, 2022

Boeing Renton Facility, Renton, Washington

Well ID ¹	Screen Interval Depth (feet bgs)	TOC Elevation (feet) ²	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) ²
GW188S	3.5 to 13.5	18.78	4.30	14.48
GW247S	4 to 14	18.91	4.52	14.39
GW248I	10 to 20	18.78	4.32	14.46
GW249S	4 to 14	18.85	4.13	14.85

Notes:

- 1. S = shallow well; I = intermediate well.
- 2. Elevations in feet relative to National Geodetic Vertical Datum of 1929.

Abbreviations:

AOC = area of concern bgs = below ground surface

TOC = top of casing

TABLE 14: AOC-003 PRIMARY GEOCHEMICAL INDICATORS ¹ FEBRUARY 22 & 23, 2022

Boeing Renton Facility, Renton, Washington

	Well ID ²					
		Downgradient				
	Source Area	Plume Area	CPOC	Area		
Parameter	RGW249S	RGW188S	GW247S	GW248I		
Temperature (degrees C)	9.4	7.4	7.4	7.0		
Specific Conductivity (µS/cm)	370.6	310.3	374.3	385		
Dissolved Oxygen (mg/L)	1.2	1.12	1.71	1.86		
pH (standard units)	6.05	6.12	6.20	6.08		
Oxidation/Reduction Potential (mV)	-34.2	-19.9	-61.0	-42.5		
Total Organic Carbon (mg/L)	14.3	6.7	4.3	10.4		

Notes

- 1. Primary geochemical indicators are measured in the field, with the exception of total organic carbon, which is measured in the laboratory.
- 2. S = shallow well; I = intermediate well.

Abbreviations

μS/cm = microsiemens per centimeter

AOC = area of concern

CPOC = conditional point of compliance

degrees C = degrees Celsius

mg/L = milligrams per liter

mV = millivolts

TABLE 15: AOC-003 CONCENTRATIONS OF CONSTITUENTS OF CONCERN ^{1, 2} FEBRUARY 22 & 23, 2022

Boeing Renton Facility, Renton, Washington

		Well ID ³				
		Source	Downgradient			
	Cleanup	Area	Plume Area	CPOC Area		
Analyte	Level ⁴	GW249S	GW188S	GW247S GW248I		
Volatile Organic Compounds (μg/L)						
Vinyl Chloride	0.24	0.359 J	0.141 J	0.127 J	0.598 J	

Notes:

- 1. Data qualifiers are as follows:
 - J = the value is estimated.
- 2. **Bolded** values exceed the cleanup levels.
- 3. S = shallow well; I = intermediate well.
- 4. Cleanup levels obtained from Table 2 of the Cleanup Action Plan.

Abbreviations:

 μ g/L = micrograms per liter

AOC = area of concern

CPOC = conditional point of compliance

TABLE 16: AOC-004 GROUNDWATER ELEVATION DATA FEBRUARY 22, 2022

Boeing Renton Facility, Renton, Washington

Well ID ¹	Screen Interval Depth (feet bgs)	TOC Elevation (feet) ²	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) ²
GW250S	4 to 14	19.31	3.87	15.44

Notes:

- 1. S = shallow well.
- 2. Elevations in feet relative to National Geodetic Vertical Datum of 1929.

Abbreviations:

AOC = area of concern bgs = below ground surface TOC = top of casing

TABLE 17: AOC-004 PRIMARY GEOCHEMICAL INDICATORS ¹ FEBRUARY 22, 2022

Boeing Renton Facility, Renton, Washington

	Well ID ²
	Source Area
Parameter	GW250S
Temperature (degrees C)	5.9
Specific Conductivity (µS/cm)	96.6
Dissolved Oxygen (mg/L)	1.85
pH (standard units)	6.96
Oxidation/Reduction Potential (mV)	82.2

Notes:

- 1. Primary geochemical indicators are measured in the field.
- 2. S = shallow well.

Abbreviations:

µS/cm = microsiemens per centimeter AOC = area of concern degrees C = degrees Celsius mg/L = milligrams per liter mV = millivolts

TABLE 18: AOC-004 CONCENTRATIONS OF CONSTITUENTS OF CONCERN FEBRUARY 22, 2022

Boeing Renton Facility, Renton, Washington

		Well ID ¹
		Source Area
Analyte	Cleanup Level ²	GW250S
Metals (μg/L)		
Lead	1	0.588

Notes:

- 1. S = shallow well.
- 2. Cleanup levels obtained from Table 2 of the Cleanup Action Plan.

Abbreviations:

AOC = area of concern

 μ g/L = micrograms per liter

TABLE 19: AOC-060 GROUNDWATER ELEVATION DATA FEBRUARY 22, 2022

Boeing Renton Facility, Renton, Washington

Well ID ¹	Screen Interval Depth (feet bgs)	TOC Elevation (feet) ²	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) ²
GW009S	4.5 to 14.5	19.36	5.39	13.97
GW010S	4.5 to 14.5	19.47	5.52	13.95
GW011D	29 to 39	19.49	5.54	13.95
GW012S	4.5 to 14.5	19.11	5.19	13.92
GW014S	4.5 to 14.5	19.24	5.27	13.97
GW147S	5 to 15	18.73	4.85	13.88
GW150S	5 to 15	19.10	5.24	13.86
GW253I	10 to 20	19.02	5.15	13.87

Notes:

- 1. S = shallow well; D = deep well; I = intermediate well.
- 2. Elevations in feet relative to National Geodetic Vertical Datum of 1929.

Abbreviations:

AOC = area of concern bgs = below ground surface

TOC = top of casing

TABLE 20: AOC-060 PRIMARY GEOCHEMICAL INDICATORS ¹ FEBRUARY 22, 2022

Boeing Renton Facility, Renton, Washington

	Well ID ²						
	Source Area	Downgradient Plume Area				СРОС	Area
				GW014S			
Parameter	GW009S	GW012S	GW014S	(field dup.)	GW147S	GW150S	GW253I
Temperature (degrees C)	19.4	19.9	17.5	17.5	8.1	9.0	6.1
Specific Conductivity (µS/cm)	341.1	652	523	523	86.9	318.2	242.3
Dissolved Oxygen (mg/L)	0.47	0.61	0.59	0.59	1.31	0.71	1.19
pH (standard units)	6.38	6.11	6.32	6.32	6.36	6.65	6.57
Oxidation/Reduction Potential (mV)	83.6	31.3	51.9	51.9	82.8	84.6	98.5
Total Organic Carbon (mg/L)	4.90	8.20	2.40	2.30	3.80	5.40	3.30

Notes:

1. Primary geochemical indicators are measured in the field, with the exception of total organic carbon, which is measured in the laboratory.

2. S = shallow well; I = intermediate well.

Abbreviations:

 μ S/cm = microsiemens per centimeter

AOC = area of concern

CPOC = conditional point of compliance

degrees C = degrees Celsius

field dup. = field duplicate

mg/L = milligrams per liter

mV = millivolts

TABLE 21: AOC-060 CONCENTRATIONS OF CONSTITUENTS OF CONCERN ^{1, 2} FEBRUARY 22, 2022

Boeing Renton Facility, Renton, Washington

		Well ID ³					
		Source					
	.	Area	Downgradient Plume Area			СРОС	Area
	Cleanup						
Analyte	Levels ⁴	GW009S	GW012S	GW014S	GW147S	GW150S	GW2531
Volatile Organic Compound	s (µg/L)						
cis -1,2-Dichloroethene	0.08	0.15	0.693	0.133	0.679	0.0547	0.0846
Trichloroethene	0.02	0.0284	0.0506	0.0200 U	0.425	0.0200 U	0.0200 U
Vinyl Chloride	0.26	0.434	1.57	0.276	0.0623	0.0969	0.177

Notes:

- 1. Data qualifiers are as follows:
 - U = The analyte was not detected at the reporting limit indicated.
- 2. **Bolded** values exceed the cleanup levels.
- 3. S = shallow well; I = intermediate well.
- 4. Cleanup levels obtained from Table 2 of the Cleanup Action Plan.

Abbreviations:

 μ g/L = micrograms per liter

AOC = area of concern

CPOC = conditional point of compliance

TABLE 22: AOC-090 GROUNDWATER ELEVATION DATA FEBRUARY 23, 2022

Boeing Renton Facility, Renton, Washington

Well ID ¹	Screen Interval Depth (feet bgs)	TOC Elevation (feet) ²	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) ²
GW176S	10 to 14.3	20.15	5.51	14.64
GW178S	11.2 to 15.5	22.73	7.66	15.07
GW189S	4 to 14	22.01	6.39	15.62
GW207S	7.3 to 12	21.12	6.49	14.63
GW208S	6.3 to 11	22.45	7.74	14.71

Notes:

- 1. S = shallow well.
- 2. Elevations in feet relative to National Geodetic Vertical Datum of 1929.

Abbreviations:

AOC = area of concern bgs = below ground surface

TOC = top of casing

TABLE 23: AOC-090 PRIMARY GEOCHEMICAL INDICATORS ¹ FEBRUARY 23, 2022

Boeing Renton Facility, Renton, Washington

	Well ID ²					
		Downgradient				
	Source Area	Plume Area	Shallow	Zone CPOC	Area	
Parameter	GW189S ³	GW176S	GW178S	GW207S	GW208S	
Temperature (degrees C)	8.6	6.8	6.9	8.9	6.5	
Specific Conductivity (µS/cm)	147.7	402.1	271.9	319.7	344.6	
Dissolved Oxygen (mg/L)	0.53	0.97	0.65	1.47	0.47	
pH (standard units)	6.23	6.35	6.35	6.55	6.36	
Oxidation/Reduction Potential (mV)	27.8	73.8	69.7	82.9	76.5	
Total Organic Carbon (mg/L)	3.30	NA	NA	NA	NA	

Notes:

- 1. Primary geochemical indicators are measured in the field, with the exception of total organic carbon, which is measured in the laboratory.
- 2. S = shallow well.
- 3. GW189S is the replacement well for GW168S.

Abbreviations:

μS/cm = microsiemens per centimeter

AOC = area of concern

CPOC = conditional point of compliance

degrees C = degrees Celsius

mg/L = milligrams per liter

mV = millivolts

NA = Not analyzed

TABLE 24: AOC-090 CONCENTRATIONS OF CONSTITUENTS OF CONCERN ^{1, 2} FEBRUARY 23, 2022

Boeing Renton Facility, Renton, Washington

		Well ID ³					
			Downgradient				
	Cleanup	Source Area	Plume Area	Shallo	w Zone CPO	C Area	
Analyte	Levels ⁴	GW189S ⁵	GW176S	GW178S	GW207S	GW208S	
Chlorinated Volatile Organic	Compounds	(μg/L)					
1,1,2,2-Tetrachloroethane	0.17	0.24 U	NA	NA	NA	NA	
1,1,2-Trichloroethane	0.2	0.20 U	NA	NA	NA	NA	
1,1-Dichloroethene	0.057	0.0200 U	NA	NA	NA	NA	
Acetone	300	5.00 U	NA	NA	NA	NA	
Benzene	0.8	0.20 U	NA	NA	NA	NA	
Carbon Tetrachloride	0.23	0.20 U	NA	NA	NA	NA	
Chloroform	2	0.20 U	NA	NA	NA	NA	
cis-1,2-Dichloroethene	2.4	0.20 U	NA	NA	NA	NA	
Methylene Chloride	2	1.00 U	NA	NA	NA	NA	
Toluene	75	0.47 J	NA	NA	NA	NA	
trans-1,2-Dichloroethene	53.9	0.20 U	NA	NA	NA	NA	
Tetrachloroethene	0.05	0.0200 U	NA	NA	NA	NA	
Trichloroethene	0.08	0.0505 UJ	NA	NA	NA	NA	
Vinyl Chloride	0.13	0.0867 J	0.311 J	0.361 J	0.356 J	0.404 J	
Total Petroleum Hydrocarbons (µg/L)							
TPH-G (C7-C12)	800	370 J	NA	NA	NA	NA	
TPH-D (C12-C24)	500	192 J	NA	NA	NA	NA	
TPH-O (C24-C40)	500	263 J	NA	NA	NA	NA	

Notes:

- 1. Data qualifiers are as follows:
 - U = The analyte was not detected at the reporting limit indicated.
 - J =the value is estimated.
 - UJ = The analyte was not detected at the estimated reporting limit indicated.
- 2. **Bolded** values exceed the cleanup levels.
- 3. S = shallow well.
- 4. Cleanup levels obtained from Table 2 of the Cleanup Action Plan.
- 5. GW189S is the replacement well for GW168S.

Abbreviations:

 μ g/L = micrograms per liter

AOC = area of concern

CPOC = conditional point of compliance

NA = not analyzed

TPH-D = total petroleum hydrocarbons in diesel range

TPH-G = total petroleum hydrocarbons in the gasoline range

TPH-O = total petroleum hydrocarbons in the motor oil range

TABLE 25: APRON A GROUNDWATER ELEVATION DATA FEBRUARY 21, 2022

Boeing Renton Facility, Renton, Washington

Well ID ¹	Screen Interval Depth (feet bgs)	TOC Elevation (feet) ²	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) ²
GW263S	8 to 18	NA	7.28	NA
GW264S	8 to 18	NA	5.70	NA

Notes

- 1. S = shallow well.
- 2. Elevations in feet relative to National Geodetic Vertical Datum of 1929.

Abbreviations

bgs = below ground surface

NA = not available

TOC = top of casing

TABLE 26: APRON A PRIMARY GEOCHEMICAL INDICATORS ¹ FEBRUARY 21, 2022

Boeing Renton Facility, Renton, Washington

	Well ID ²
	Source Area
Parameter	GW264S
Temperature (degrees C)	10.5
Specific Conductivity (µS/cm)	561.0
Dissolved Oxygen (mg/L)	0.61
pH (standard units)	6.11
Oxidation/Reduction Potential (mV)	39.8
Total Organic Carbon (mg/L)	25.5

Notes

- 1. Primary geochemical indicators are measured in the field, with the exception of total organic carbon, which is measured in the laboratory.
- 2. S = shallow well.

Abbreviations

 μ S/cm = microsiemens per centimeter degrees C = degrees Celsius mg/L = milligrams per liter mV = millivolts

TABLE 27: APRON A CONCENTRATIONS OF CONSTITUENTS OF CONCERN¹

FEBRUARY 21, 2022

Boeing Renton Facility, Renton, Washington

Analyte	Cleanup Levels	Well ID ² GW264S
Volatile Organic Compounds (μg/L) cis- 1,2-Dichloroethene	NE	0.200 U
Vinyl Chloride	NE	2.54

Notes

- 1. Data qualifiers are as follows:
 - U = The analyte was not detected at the reporting limit indicated.
- 2. S = shallow well.

Abbreviations

 μ g/L = micrograms per liter

NE = not established

wood.

Appendix A

Summary of Groundwater Sampling Methodology

TABLE A-1: GROUNDWATER COMPLIANCE MONITORING PLAN

Boeing Renton Facility, Renton, Washington

		Monitoring V	Vells ^{1, 2}			
Cleanup Action Area	Source Area Wells	Downgradient Plume Wells	CPOC Wells	Level Monitoring Wells ³	Constituents of Concern⁴	Analyses⁵
SWMU-168	NA	NA NA	GW230I	NA	VC VC	SW8260D SIM
CVAINALL 172 (CVAINALL 174	CM152C I CM152C	GW172S, GW173S,	GW232S, GW234S,		cis -1,2-DCE, PCE, TCE, VC	SW8260D SIM ⁸
SWMU-172/SWMU-174	GW152S and GW153S	and GW226S	GW235I, and GW236S	NA	Arsenic, copper, and lead	EPA 6020A
Building 4-78/79	GW031S, GW033S, GW034S,	NA	GW143S, GW237S, and	NA	VC, TCE, <i>cis</i> -1,2-DCE, benzene	SW8260D
SWMU/AOC Group	and GW244S	INA	GW240D	IVA	TPH-gasoline	NWTPH-Gx
Former Fuel Farm SWMU/AOC Group	NA	NA	GW211S, GW221S, and GW224S	NA	TPH-jet fuel, TPH-diesel	NWTPH-Dx
AOC-001/AOC-002 ^{6, 7}		All wells closed with the start of	of Annan D construction		Benzene	SW8260D
AOC-001/AOC-002*		All wells closed with the start (of Aprofi R construction.		TCE, cis -1,2-DCE, 1,1-dichloroethene, VC	SW8260D SIM ⁸
AOC-003	GW249S	GW188S	GW247S and GW248I	NA	VC	SW8260D
AOC-004	GW250S	NA	NA	NA	Lead	EPA 6020A
AOC-060	GW009S	GW012S, GW014S, and GW147S	GW150S and GW253I	GW010S and GW011D	VC, TCE, cis-1,2-DCE	SW8260D SIM ⁸
					1,1,2-Trichloroethane, acetone, benzene, toluene, carbon tetrachloride, chloroform, <i>cis</i> -1,2-DCE, <i>trans</i> -1,2-DCE, methylene chloride	SW8260D
AOC-090 ⁹	GW189S	GW176S	GW178S, GW207S, and GW208S	NA	1,1-Dichloroethene, 1,1,2,2-tetrachloroethane, VC, PCE, TCE	SW8260D SIM ⁸
					TPH-gasoline	NWPTH-Gx
					TPH-diesel, TPH-motor oil	NWTPH-Dx
Apron A	GW264S	NA	NA	GW263S	cis -1,2-DCE and VC	SW8260D

Notes:

- 1. The EDR presents the groundwater monitoring frequency for each SWMU/AOC. All sites are monitored on a semi-annual basis with sampling events occurring in February and August.
- 2. Groundwater monitoring wells are also monitored for groundwater levels.
- 3. Additional wells are monitored for groundwater levels only.
- 4. In addition to COCs, primary geochemical indicators will be monitored during each regular monitoring event. Geochemical indicators are listed in Table A-2.
- 5. Details of analytical methods are specified in the Quality Assurance Project Plan, which is Appendix E to the Cleanup Action Plan (AMEC, 2012).
- 6. Monitoring wells were abandoned on 11/25/2019 prior to Apron R construction and will be replaced upon completion of construction.
- 7. Groundwater monitoring and sampling will be suspended until completion of construction.
- 8. SIM methods will be used if the cleanup level is lower than the reporting limit achieved by the conventional 8021, 8260, or 8270 method. If cleanup levels become higher or if the conventional 8021, 8260, or 8270 methods are updated and able to achieve reporting limits below the cleanup levels, then the conventional method rather than the SIM method will be used.
- 9. GW189S will be sampled for CVOCs and TPH, all other wells will only be sampled for VC.

Abbreviations:

AOC = area of concern cis -1,2-DCE = cis -1,2 dichloroethene COCs = constituents of concern CPOC = conditional point of compliance

CVOCs = chlorinated volatile organic compounds

EDR = Engineering Design Report EPA = Environmental Protection Agency NA = not applicable

PCE = tetrachloroethene SIM = selected ion monitoring SWMU = solid waste management unit TCE = trichloroethene

TPH = total petroleum hydrocarbons trans -1,2-DCE = trans -1,2 dichloroethene

VC = vinyl chloride

TABLE A-2: MONITORED NATURAL ATTENUATION/MONITORED ATTENUATION PLAN

Boeing Renton Facility, Renton, Washington

		Groundwat	ter Monitoring Wells		Primary Geochemical Parameters ^{1, 2}
Cleanup Action Area	Cross-Gradient Wells	Source Area Wells	Downgradient Plume Wells	CPOC Wells	Indicators
SWMU-168	NA	NA	NA	GW230I	Dissolved oxygen, pH, ORP, temperature, specific conductance
SWMU-172/SWMU-174	NA	GW152S and GW153S	GW172S, GW173S, and GW226S	GW232S, GW234S, GW235I, and GW236S	Dissolved oxygen, pH, ORP, temperature, specific conductance, TOC
Building 4-78/79 SWMU/AOC Group	NA	GW031S, GW033S, GW034S, and GW244S	NA	GW143S, GW237S, and GW240D	Dissolved oxygen, pH, ORP, temperature, specific conductance, TOC
Former Fuel Farm SWMU/AOC Group	NA	NA	NA	GW211S, GW221S, and GW224S	Dissolved oxygen, pH, ORP, temperature, specific conductance
AOC-001/AOC-002 ^{3, 4}	NA		All wells closed w	ith the start of Apron R construc	tion.
AOC-003	NA	GW249S	GW188S	GW247S and GW248I	Dissolved oxygen, pH, ORP, temperature, specific conductance, TOC
AOC-004	NA	GW250S	NA	NA	Dissolved oxygen, pH, ORP, temperature, specific conductance
AOC-060	GW012S and GW014S	GW009S	GW147S	GW150S and GW253I	Dissolved oxygen, pH, ORP, temperature, specific conductance, TOC
AOC-090	NA	GW189S	GW176S	GW178S, GW207S, and GW208S	Dissolved oxygen, pH, ORP, temperature, specific conductance, TOC ⁵
Apron A	NA	GW264S	NA	NA	Dissolved oxygen, pH, ORP, temperature, specific conductance, TOC

Notes:

- 1. In addition to COCs listed in Table A-1, primary geochemical indicators will be monitored during each regular monitoring event.
- All primary geochemical indicators except TOC are monitored in the field during sampling. TOC is analyzed in the laboratory following methods specified in the Quality Assurance Project Plan, which is Appendix E to the Cleanup Action Plan (AMEC, 2012).
 - The primary geochemical indicators differ slightly depending on whether the site is a fuel-related site or a solvent-related site.
 - At a fuel-related site, TOC is not necessary; at a solvent-related site, TOC is a measure of how much electron donor remains present.
 - All MNA parameters are measured semiannually in all wells on a wet season/dry season basis.
- 3. Monitoring wells were abandoned on 11/25/2019 prior to Apron R construction and will be replaced upon completion of construction.
- 4. Groundwater monitoring and sampling will be suspended until completion of construction.
- 5. TOC will only be analyzed in the groundwater from the source area well (GW189S).

Abbreviations:

AOC = area of concern

COCs = constituents of concern

CPOC = conditional point of compliance

MNA = monitored natural attenuation

NA = not applicable

ORP = oxidation reduction potential

SWMU = solid waste management unit

TOC = total organic carbon

wood.

Appendix B

Field Forms



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	_
Event:		Feb. 2022			Date/Time:	2/ 22 /2022@	1213		
Sample Num	nber:	RGW009S-	220222		Weather:	INSIDE			
Landau Repr	resentative:	AHA			•				
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Condition		Secure (YES)	Damaged (N	O)	Describe:	FLUSHMOUN	T	
DTW Before	Purging (ft)	5.39	Time:	1148	Flow through cel	ll vol.		GW Meter No.(s HERON 2
	Date/Time:			End Purge:	-	2/ 22/2022 @	1212	Gallons Purged:	0.25
Purge water d			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	•
C	Т.	Cond				Tk: d:4	_		
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	Purge Goa	ls: Stablizatio	on of Parame			dings within the fo	ollowing limits	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1153	19.5	348.1	0.59	6.37	90.9		5.39		
1156	19.5	342.8	0.49	6.38	85.5		5.39		
1159	19.4	341.1	0.47	6.38	83.6		5.39		
SAMPLE CO	LLECTION D	ATA							
Sample Collec	cted With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other				_			
Sample Descr	iption (color,	turbidity, odor	, sheen, etc.):	NO COLOR	, LOW TURB, NO	O ODOR, NO SHE	EN		
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
,	` ′	` ,		<i>(</i> 20	` '	(1110)	(11)	(FC 11)	Observations
1	19.4	340.8	0.44	6.38	82.6			-	
2	19.4	340.3	0.43	6.38	82.3				
3	19.4	340.3	0.44	6.38	82.1				
4	19.4	340.3	0.43	6.38	81.9				
Average:	19.4	340.4	0.44	6.38	82.2	#DIV/0!			
_						ullaakla "		- al-sais b -1 \	
QUANTITY 3		NALYSIS AI 0) (8020) (N			<u> </u>	plicable or write	non-standard ai	WA	OR 🗌
3	, , ,					(8141) (Oil & G	rease)	WA 🗆	OR 🗆
						(HCO3/CO3) (OK II
1	u , ,	• / (/ / /	/ \	i) (NH3) (NO3/	, , ,	, () (110	-, (-·- -) (+)	
	. , ,	le) (WAD Cy							
	(Total Metals) (As) (Sb) (Ba) (Be) (Ca	a) (Cd) (Co)	(Cr) (Cu) (Fe)	(Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (H	g) (K) (Na)
	(Dissolved M	etals) (As) (St) (Ba) (Be) (Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (P	b) (Mg) (Mn) (Ni)	(Ag) (Se) (Tl) (V	(Zn) (Hg) (K)	Na) (Hardness) (Silic
	VOC (Boein	g short list)							
	Methane Eth	ane Ethene A	cetylene						
	others								
Duplicate San	nple No(s):								
Comments:	(-).								
		AHA				Date:	2/22/2022		



Project Name:	Boeing Rea	nton		Project Number	er <u>:</u>	0025217.099.0	99	
Event:	Feb. 2022			Date/Time:	2/ 22/2022@			
Sample Number:	RGW010S	- 220222		Weather:	INSIDE			
Landau Representative:	AHA							
WATER LEVEL/WELL/P	IIDCE DATA							
		2)	Damaged (A)	IO)	Dagariba	ELUCIMOUN	T	
Well Condition:	Secure (YES		Damaged (N	ŕ		FLUSHMOUN		
DTW Before Purging (ft)	5.52	Time:	1110	Flow through ce	•		GW Meter No.(s	
Begin Purge: Date/Time:	2/ /2022 @	0 NA	End Purge:	Date/Time:	2/ /2022 @		Gallons Purged:	-
Purge water disposed to:	Ш	55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time (°F/°C)	(uS/cm)	(mg/L)	P	(mV)	(NTU)	(ft)	Volume (gal)	Observations
_					dings within the fo		>/= 1 flow	
+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
					-	<u></u>		
W	ATER	LEV	EL O	NLY				
					-		-	-
	- .							
	_							
-	-, - 			-		· 		
		. ———						
				·-		- <u></u>	· <u> </u>	
SAMPLE COLLECTION 1								
Sample Collected With:		Bailer	-	Pump/Pump Type	e			
Made of:	Stainless Ste	eel 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procedure:	Alconox Wa	ısh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerical Order)	Other							
,	₩	r. sheen, etc.):						
(By Numerical Order) Sample Description (color,	₩	r, sheen, etc.):						
,	₩	r, sheen, etc.):	рН	ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Description (color	turbidity, odo			ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Description (color, Replicate Temp	turbidity, odo	D.O.			•			
Replicate Temp (°F/°C)	turbidity, odo	D.O.			•			
Sample Description (color, Replicate Temp (°F/°C)	turbidity, odo	D.O.			•			
Replicate Temp (°F/°C)	turbidity, odo	D.O.			•			
Replicate Temp (°F/°C) 1 2	turbidity, odo	D.O.			•			
Replicate Temp (°F/°C) 1 2 3 4	Cond. (uS/cm)	D.O.	рН	(mV)	(NTU)			
Replicate Temp (°F/°C) 1 2 3 4 Average: #DIV/0!	turbidity, odo Cond. (uS/cm) #DIV/0!	D.O. (mg/L) #DIV/0!	pH #DIV/0!	(mV) #DIV/0!	(NTU) #DIV/0!	(ft)	(Fe II)	
Replicate Temp (°F/°C) 1 2 3 4	turbidity, odo Cond. (uS/cm) #DIV/0!	D.O. (mg/L) #DIV/0!	pH #DIV/0!	(mV) #DIV/0!	(NTU) #DIV/0!	(ft)	(Fe II)	
Replicate Temp (°F/°C) 1 2 3 4 Average: #DIV/0!	Cond. (uS/cm) #DIV/0! ANALYSIS A.	#DIV/0! LLOWED PE	#DIV/0! ER BOTTLE (NWTPH-GX	#DIV/0! TYPE (Circle a) (BTEX)	#DIV/0!	(ft)	nalysis below)	Observations OR
Replicate Temp (°F/°C) 1 2 3 4 Average: #DIV/0! QUANTITY TYPICAL A (8260) (80) (8270D) (P	#DIV/0! ANALYSIS A 10) (8020) (10 AH) (NWTP)	#DIV/0! LLOWED PE NWTPH-G) (#DIV/0! ER BOTTLE (NWTPH-Gx) PH-Dx) (TPP	#DIV/0! TYPE (Circle a)) (BTEX) H-HCID) (8081)	#DIV/0! pplicable or write (8141) (Oil & G	non-standard an	nalysis below) WA WA WA	Observations
Replicate Temp (°F/°C) 1 2 3 4 Average: #DIV/0! QUANTITY TYPICAL A (8260) (80) (8270D) (P (pH) (Cond	#DIV/0! ANALYSIS A (0) (8020) (1) AH) (NWTP: Juctivity) (TD	#DIV/0! LLOWED PE NWTPH-G) (H-D) (NWTP	#DIV/0! ER BOTTLE (NWTPH-Gx, PH-Dx) (TPH-BOD) (Turbi	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity	#DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6	non-standard an	nalysis below) WA WA WA	Observations OR
Replicate Temp (°F/°C) 1 2 3 4 Average: #DIV/0! QUANTITY TYPICAL A (8260) (80 (8270D) (P (pH) (Cond	#DIV/0! ANALYSIS A (0) (8020) (1) AH) (NWTP) (uctivity) (TD	#DIV/0! #DIV/0! LLOWED PE NWTPH-G) (H-D) (NWTP PS) (TSS) (B 4) (Total Kie	#DIV/0! CR BOTTLE (NWTPH-Gx; PH-Dx) (TPFBOD) (Turbicdahl Nitroger	#DIV/0! TYPE (Circle a)) (BTEX) H-HCID) (8081)	#DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6	non-standard an	nalysis below) WA WA WA	Observations OR
Replicate Temp (°F/°C) 1 2 3 4 Average: #DIV/0! QUANTITY TYPICAL A (8260) (80 (8270D) (P (pH) (Cond	#DIV/0! ANALYSIS A (0) (8020) (1) AH) (NWTP) (uctivity) (TD	#DIV/0! LLOWED PE NWTPH-G) (H-D) (NWTP	#DIV/0! CR BOTTLE (NWTPH-Gx; PH-Dx) (TPFBOD) (Turbicdahl Nitroger	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity	#DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6	non-standard an	nalysis below) WA WA WA	Observations OR
Replicate Temp (°F/°C) 1 2 3 4 Average: #DIV/0! QUANTITY TYPICAL A (8260) (80 (8270D) (P (pH) (Cond (COD) (TC) (Total Cyani	#DIV/0! #NALYSIS A: 10) (8020) (1) AH) (NWTP: 10c) (Total POte) (WAD C:	#DIV/0! #DIV/0! LLOWED PE NWTPH-G) (H-D) (NWTP S) (TSS) (B 4) (Total Kie yanide) (Free	#DIV/0! ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbical Nitroger Cyanide)	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity a) (NH3) (NO3	#DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6	non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 33) (NO2) (F)	Observations OR OR OR
Replicate Temp (°F/°C) 1 2 3 4 Average: #DIV/0! QUANTITY TYPICAL A (8260) (80) (8270D) (P (pH) (Cond (COD) (TO (Total Cyani (Total Metal	#DIV/0! #NALYSIS A (a) (8020) (b) (100) (Total PO (b) (WAD C) (c) (S) (As) (Sb) (c)	#DIV/0! #DIV/0! LLOWED PE NWTPH-G) (NWTP OS) (TSS) (B 4) (Total Kie yanide) (Free (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx, PH-Dx) (TPH- BOD) (Turbic dahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a)) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR
Replicate Temp (°F/°C) 1 2 3 4 Average: #DIV/0! QUANTITY TYPICAL A (8260) (80) (8270D) (P (pH) (Cond (COD) (TC) (Total Cyani (Total Metal (Dissolved M	#DIV/0! #NALYSIS A (a) (8020) (b) (100) (Total PO (b) (WAD C) (c) (S) (As) (Sb) (c)	#DIV/0! #DIV/0! LLOWED PE NWTPH-G) (NWTP OS) (TSS) (B 4) (Total Kie yanide) (Free (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx, PH-Dx) (TPH- BOD) (Turbic dahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a)) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate Temp (°F/°C) 1 2 3 4 Average: #DIV/0! QUANTITY TYPICAL A (8260) (80 (8270D) (P (pH) (Cond (COD) (TO (Total Cyani (Total Metal (Dissolved M	#DIV/0! #DIV/0! ANALYSIS A 10) (8020) (1 AH) (NWTP) Luctivity) (TD C) (Total PO de) (WAD C: s) (As) (Sb) Metals) (As) (S	#DIV/0! LLOWED PE NWTPH-G) (H-D) (NWTP PS) (TSS) (B 4) (Total Kie yanide) (Free (Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx, PH-Dx) (TPH- BOD) (Turbic dahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a)) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate Temp (°F/°C) 1 2 3 4 Average: #DIV/0! QUANTITY TYPICAL A (8260) (80 (8270D) (P (pH) (Cond (COD) (TO (Total Cyani (Total Metal (Dissolved M	#DIV/0! #DIV/0! ANALYSIS A 10) (8020) (1 AH) (NWTP) fuctivity) (TD C) (Total PO de) (WAD C) s) (As) (Sb) Metals) (As) (S ng short list)	#DIV/0! LLOWED PE NWTPH-G) (H-D) (NWTP PS) (TSS) (B 4) (Total Kie yanide) (Free (Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx, PH-Dx) (TPH- BOD) (Turbic dahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a)) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate Temp (°F/°C) 1 2 3 4 Average: #DIV/0! QUANTITY TYPICAL A (8260) (80 (8270D) (P (pH) (Cond (COD) (TO (Total Cyani (Total Metal (Dissolved M	#DIV/0! #DIV/0! ANALYSIS A 10) (8020) (1 AH) (NWTP) fuctivity) (TD C) (Total PO de) (WAD C) s) (As) (Sb) Metals) (As) (S ng short list)	#DIV/0! LLOWED PE NWTPH-G) (H-D) (NWTP PS) (TSS) (B 4) (Total Kie yanide) (Free (Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx, PH-Dx) (TPH- BOD) (Turbic dahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a)) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate Temp (°F/°C) 1 2 3 4 Average: #DIV/0! QUANTITY TYPICAL A (8260) (80 (8270D) (P (pH) (Cond (COD) (TO (Total Cyani (Total Metal (Dissolved M	#DIV/0! #DIV/0! ANALYSIS A 10) (8020) (1 AH) (NWTP) fuctivity) (TD C) (Total PO de) (WAD C) s) (As) (Sb) Metals) (As) (S ng short list)	#DIV/0! LLOWED PE NWTPH-G) (H-D) (NWTP PS) (TSS) (B 4) (Total Kie yanide) (Free (Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx, PH-Dx) (TPH- BOD) (Turbic dahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a)) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate Temp (°F/°C) 1 2 3 4 Average: #DIV/0! QUANTITY TYPICAL A (8260) (80) (8270D) (P) (pH) (Cond) (COD) (TO (Total Cyani) (Total Metal) (Dissolved M) VOC (Boei) Methane Et	#DIV/0! #DIV/0! ANALYSIS A 10) (8020) (1 AH) (NWTP) fuctivity) (TD C) (Total PO de) (WAD C) s) (As) (Sb) Metals) (As) (S ng short list)	#DIV/0! LLOWED PE NWTPH-G) (H-D) (NWTP PS) (TSS) (B 4) (Total Kie yanide) (Free (Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx, PH-Dx) (TPH- BOD) (Turbic dahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a)) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate Temp (°F/°C) 1 2 3 4 Average: #DIV/0! QUANTITY TYPICAL A (8260) (80) (8270D) (P) (pH) (Cond) (COD) (TO (Total Cyani) (Total Metal) (Dissolved M) VOC (Boei) Methane Et	#DIV/0! #DIV/0! ANALYSIS A 10) (8020) (1 AH) (NWTP) fuctivity) (TD C) (Total PO de) (WAD C) s) (As) (Sb) Metals) (As) (S ng short list)	#DIV/0! LLOWED PE NWTPH-G) (H-D) (NWTP PS) (TSS) (B 4) (Total Kie yanide) (Free (Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx, PH-Dx) (TPH- BOD) (Turbic dahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a)) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate Temp (°F/°C) 1 2 3 4 Average: #DIV/0! QUANTITY TYPICAL A (8260) (80) (8270D) (P) (pH) (Cond) (COD) (TO (Total Cyani) (Total Metal) (Dissolved M VOC (Boei) Methane Et	#DIV/0! #DIV/0! ANALYSIS A 10) (8020) (1 AH) (NWTP) fuctivity) (TD C) (Total PO de) (WAD C) s) (As) (Sb) Metals) (As) (S ng short list)	#DIV/0! LLOWED PE NWTPH-G) (H-D) (NWTP PS) (TSS) (B 4) (Total Kie yanide) (Free (Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx, PH-Dx) (TPH- BOD) (Turbic dahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a)) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ne:	Boeing Ren	ton		Project Number	er:	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 22/2022@			
Sample Nun	nber:	RGW011D	220222		Weather:	INSIDE			
Landau Rep	resentative:	AHA			•				
WATED LEV	/EL/WELL/PU	IDCE DATA							
)	Damagad (N	IO)	Dagariba			
Well Condition		Secure (YES		Damaged (N		Describe:			
DTW Before		5.54	Time:	-	Flow through ce			GW Meter No.(s HERON 2
Begin Purge:	Date/Time:			End Purge:	Date/Time:	2/ /2022 @	NA	Gallons Purged:	0.25
Purge water d	lisposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	` ,	` ,		ters for thre	` /	dings within the fo	` '	>/= 1 flow	Obscivations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units		+/- 10%	< 0.3 ft	through cell	
	-						-	-	
	TX 7	ATER	IEV	EI O	NI V		-	•	
		<u> </u>	<u> </u>		1 <u>NL 1</u>				
	- ———								
					-	-	-	-	
SAMPLE CO	LLECTION D	OATA							
Sample Colle	cted With:		Bailer		Pump/Pump Type	3			
Made of:		Stainless Ste	el 🗖	PVC	Teflon	Polyethylene	Other	Dedicated	
	. —		_					E Beareanea	
Decon Proced		Alconox Wa	sn 📋	Tap Rinse	DI Water	Dedicated			
(Ry Mumorica									
	ıl Order)	Other							
	ription (color,	—	, sheen, etc.):	:					
Sample Descr	ription (color,	turbidity, odor	· ·		ОРР	Turkidity	DTW	Farmons inon	Comments
	Temp	turbidity, odor	D.O.	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron	Comments/ Observations
Sample Descri Replicate	ription (color,	turbidity, odor	· ·		ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	Temp	turbidity, odor	D.O.			•			
Sample Descri Replicate	Temp	turbidity, odor	D.O.			•			
Sample Descri	Temp	turbidity, odor	D.O.			•			
Replicate 1 2 3	Temp	turbidity, odor	D.O.			•			
Replicate 1 2 3 4	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	(mV)	(NTU)			
Replicate 1 2 3	Temp	turbidity, odor	D.O.			•			
Replicate 1 2 3 4	Temp (°F/°C) #DIV/0!	Cond. (uS/cm) #DIV/0!	D.O. (mg/L) #DIV/0!	pH	(mV) 	(NTU)	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) #DIV/0! TYPICAL A	Cond. (uS/cm) #DIV/0!	D.O. (mg/L) #DIV/0!	pH #DIV/0! ER BOTTLE	#DIV/0!	(NTU) #DIV/0!	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (801)	Cond. (uS/cm) #DIV/0! NALYSIS AI 0) (8020) (8	#DIV/0!	#DIV/0! ER BOTTLE (NWTPH-Gx	#DIV/0! TYPE (Circle ap) (BTEX)	(NTU) #DIV/0!	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (801)	#DIV/0! NALYSIS AI () (8020) (NAH) (NWTPH	#DIV/0! LOWED PP	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPI	#DIV/0! TYPE (Circle ap.) (BTEX) H-HCID) (8081)	#DIV/0!	non-standard a	nalysis below) WA WA WA	Observations OR OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	#DIV/0! NALYSIS AI (0) (8020) (NAH) (NWTPH	#DIV/0! LOWED PERWYPH-G) (NWTES) (TSS) (E	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPI	#DIV/0! TYPE (Circle ap.) (BTEX) H-HCID) (8081)	#DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (0	non-standard a	nalysis below) WA WA WA	Observations OR OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (801) (8270D) (P# (COD) (TOO	#DIV/0! NALYSIS AI (0) (8020) (NAH) (NWTPH	#DIV/0! LOWED PENWTPH-G) (NWTPS) (TSS) (E) (Total Kie	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity	#DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (0	non-standard a	nalysis below) WA WA WA	Observations OR OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (801) (8270D) (PA (COD) (TOO	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD: C) (Total PO-	#DIV/0! LOWED PP WTPH-G) (NWTP S) (TSS) (E	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger Cyanide)	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity a) (NH3) (NO3.	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6/NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (801) (8270D) (PA (COD) (Total Cyanic) (Total Metals	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH detivity) (TD C) (Total PO-	#DIV/0! #DIV/0! **LOWED PE **WTPH-G) (NWTF **S) (TSS) (E **4) (Total Kie **ranide) (Free Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) nalysis below) WA WA (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (801) (8270D) (PA (PH) (Condu (COD) (Total Cyanical (Total Metals) (Dissolved M	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (NAH) (NWTPH letivity) (TDI C) (Total PO- le) (WAD Cy) (As) (Sb) (Setals) (As) (Sb) (Setals) (Ss) (Sb)	#DIV/0! #DIV/0! **LOWED PE **WTPH-G) (NWTF **S) (TSS) (E **4) (Total Kie **ranide) (Free Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) nalysis below) WA WA (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (8010) (8270D) (PA (DH) (COD) (TOO) (Total Cyanic) (Total Metals (Dissolved M	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	#DIV/0! #DIV/0! **LOWED PF NWTPH-G) (NWTF S) (TSS) (E 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) nalysis below) WA WA (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (8010) (8270D) (PA (DH) (COD) (TOO) (Total Cyanic) (Total Metals (Dissolved M	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (NAH) (NWTPH letivity) (TDI C) (Total PO- le) (WAD Cy) (As) (Sb) (Setals) (As) (Sb) (Setals) (Ss) (Sb)	#DIV/0! #DIV/0! **LOWED PF NWTPH-G) (NWTF S) (TSS) (E 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) nalysis below) WA WA (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (8010) (8270D) (PA (DH) (COD) (TOO) (Total Cyanic) (Total Metals (Dissolved M	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	#DIV/0! #DIV/0! **LOWED PF NWTPH-G) (NWTF S) (TSS) (E 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) nalysis below) WA WA (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (801) (8270D) (PA (PH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M VOC (Boein Methane Eth	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	#DIV/0! #DIV/0! **LOWED PF NWTPH-G) (NWTF S) (TSS) (E 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) malysis below) WA WA WA (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (8010) (8270D) (PA (DH) (COD) (TOO) (Total Cyanic) (Total Metals (Dissolved M	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	#DIV/0! #DIV/0! **LOWED PF NWTPH-G) (NWTF S) (TSS) (E 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) malysis below) WA WA WA (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (801) (8270D) (PA (PH) (Condu (COD) (Total Cyanica (Total Metals (Dissolved M VOC (Boein Methane Eth	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	#DIV/0! #DIV/0! **LOWED PF NWTPH-G) (NWTF S) (TSS) (E 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) malysis below) WA WA WA (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (801) (8270D) (PA (PH) (Condu (COD) (Total Cyanica (Total Metals (Dissolved M VOC (Boein Methane Eth	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	#DIV/0! #DIV/0! **LOWED PF NWTPH-G) (NWTF S) (TSS) (E 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) malysis below) WA WA WA (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY	#DIV/0! TYPICAL A (8260) (801) (8270D) (PA (PH) (Condu (COD) (Total Cyanica (Total Metals (Dissolved M VOC (Boein Methane Eth	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- le) (WAD Cy) (As) (Sb) (etals) (As) (Sl g short list)	#DIV/0! #DIV/0! **LOWED PF NWTPH-G) (NWTF S) (TSS) (E 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) malysis below) WA WA WA (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	.e:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/22/2022@	1113		
Sample Num	nber:	RGW012S-	220222		Weather:	INSIDE			
Landau Repr	resentative:	AHA							
WATER LEV	FI/WFII/DI	IRGE DATA							
WATER ELV		Secure (YES)	Damaged (N	(O)	Describe:	FLUSHMOUN	Т	
		` '	,	- '			TEOSITIVIOCIV		HED ON 2
DTW Before		5.19	Time:		Flow through cel	-		GW Meter No.(s	
Begin Purge:		$\overline{}$		End Purge:		2/ 22/2022 @	_	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum	Щ	Storage Tank	Ground	Other	SITE TREATME	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)		(mV)	(NTU)	(ft)	Volume (gal)	Observations
	+/- 3%	ls: Stablizatio +/- 3%		ters for three +/- 0.1 units		dings within the fo +/- 10%	ollowing limits < 0.3 ft	>/= 1 flow through cell	
1051						., 10,0		tiii ougii teii	
1051	19.9	626	0.54	6.11	60.5		5.21		
1054	19.8	635	0.58	6.11	48.7		5.21		
1057	19.9	644	0.63	6.11	39.2		5.21		
1100	19.9	648	0.62	6.11	34.2				_
1103	19.9	652	0.61	6.11	31.3				
SAMPLE CO	LLECTION D	ATA							
Sample Collec	cted With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Stee		PVC	Teflon	Polyethylene	Other	Dedicated	
				Tap Rinse					
Decon Proced	_	Alconox Was		rap Kilise	DI Water	Dedicated			
(By Numerica		Other	1	No col on	LOWITHDD M	ODOR MOGUEEN	AL CLICRENDED	DADTICLE ATEC	
. •			, sheen, etc.):	NO COLOR	, LOW TURB, N	ODOR, N OSHEE	N SUSPENDED	PARTICULATES	3
Sample Descr	ription (color,	turbidity, odor	· -						
. •			D.O. (mg/L)	NO COLOR	, LOW TURB, N ORP (mV)	ODOR, N OSHEED Turbidity (NTU)	N SUSPENDED DTW (ft)	PARTICULATES Ferrous iron (Fe II)	Comments/ Observations
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.11	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr Replicate	Temp (°F/°C) 19.9	Cond. (uS/cm) 652	D.O. (mg/L) 0.60	рН 6.11	ORP (mV) 30.8 30.7	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.11	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2	Temp (°F/°C) 19.9	Cond. (uS/cm) 652	D.O. (mg/L) 0.60	рН 6.11	ORP (mV) 30.8 30.7	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3 4	Temp (°F/°C) 19.9 19.9 19.9	Cond. (uS/cm) 652 652 653	D.O. (mg/L) 0.60 0.60 0.60	pH 6.11 6.11 6.11 6.11	ORP (mV) 30.8 30.7 30.6 30.4	Turbidity (NTU)	DTW	Ferrous iron	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 19.9 19.9 19.9 19.9	Cond. (uS/cm) 652 652 653 653	D.O. (mg/L) 0.60 0.60 0.60 0.59	6.11 6.11 6.11 6.11 6.11	ORP (mV) 30.8 30.7 30.6 30.4 30.6	Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 19.9 19.9 19.9 19.9 19.9	Cond. (uS/cm) 652 652 653 653	D.O. (mg/L) 0.60 0.60 0.59 0.60	6.11 6.11 6.11 6.11 6.11 6.11	ORP (mV) 30.8 30.7 30.6 30.4 30.6 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 19.9 19.9 19.9 19.9 19.9 TYPICAL A (8260) (8010	Cond. (uS/cm) 652 652 653 653 653 NALYSIS AI	D.O. (mg/L) 0.60 0.60 0.60 0.59 0.60 LOWED PF	6.11 6.11 6.11 6.11 6.11 6.11 RER BOTTLE	ORP (mV) 30.8 30.7 30.6 30.4 30.6 TYPE (Circle ap) (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II) nalysis below) WA	Comments/ Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 19.9 19.9 19.9 19.9 19.9 19.9 19.9 (8260) (8010 (8270D) (PA	Cond. (uS/cm) 652 652 653 653 853 NALYSIS AI 0) (8020) (NAH) (NWTPH	D.O. (mg/L) 0.60 0.60 0.59 0.60 LOWED PP	6.11 6.11 6.11 6.11 6.11 CR BOTTLE NWTPH-GX	ORP (mV) 30.8 30.7 30.6 30.4 30.6 TYPE (Circle ap) (BTEX) H-HCID) (8081)	#DIV/0!	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) nalysis below) WA WA WA	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 19.9 19.9 19.9 19.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 652 652 653 653 653 NALYSIS AL 0) (8020) (N AH) (NWTPHactivity) (TDS	D.O. (mg/L) 0.60 0.60 0.59 0.60 LOWED PERMYPH-G) (NWTH-S) (TSS) (E	6.11 6.11 6.11 6.11 6.11 6.11 6.11 6.11	ORP (mV) 30.8 30.7 30.6 30.4 30.6 TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gro) (HCO3/CO3) (6	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) nalysis below) WA WA WA	Comments/ Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 19.9 19.9 19.9 19.9 19.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 652 652 653 653 653 NALYSIS AI (0) (8020) (N AH) (NWTPHactivity) (TDS	D.O. (mg/L) 0.60 0.60 0.59 0.60 LOWED PERWITH-G) (NWTERS) (TSS) (ES) (TSS) (ES) (Total Kiews)	pH 6.11 6.11 6.11 6.11 6.11 CR BOTTLE (NWTPH-Gx) H-Dx) (TPHOD) (Turbidahl Nitroger	ORP (mV) 30.8 30.7 30.6 30.4 30.6 TYPE (Circle ap) (BTEX) H-HCID) (8081)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gro) (HCO3/CO3) (6	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) nalysis below) WA WA WA	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 19.9 19.9 19.9 19.9 19.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 652 653 653 653 NALYSIS AI (0) (8020) (N AH) (NWTPH- detivity) (TDS) (C) (Total PO4 (e) (WAD Cy	D.O. (mg/L) 0.60 0.60 0.59 0.60 LOWED PERMITPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Total Kielanide) (Freedmide) (Freedmide) (Freedmide)	pH 6.11 6.11 6.11 6.11 6.11 CR BOTTLE NWTPH-GX PH-DX) (TPF BOD) (Turbidahl Nitroger Cyanide)	ORP (mV) 30.8 30.7 30.6 30.4 30.6 TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (NO2))	DTW (ft) non-standard and arecase) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA NO2) (F)	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 19.9 19.9 19.9 19.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 652 653 653 653 NALYSIS AI 0) (8020) (N AH) (NWTPF- detivity) (TDS C) (Total PO4 de) (WAD Cy de) (As) (Sb) (D.O. (mg/L) 0.60 0.60 0.59 0.60 LOWED PF WTPH-G) (NWTF S) (TSS) (E H) (Total Kie ranide) (Free	pH 6.11 6.11 6.11 6.11 6.11 6.11 CR BOTTLE (NWTPH-GX) PH-DX) (TPH BOD) (Turbidahl Nitroger Cyanide) (1) (Cd) (Co)	ORP (mV) 30.8 30.7 30.6 30.4 30.6 TYPE (Circle ap.) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover of the Control of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA 3) (NO2) (F)	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 19.9 19.9 19.9 19.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 652 652 653 653 653 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 de) (WAD Cy de) (As) (Sb) (etals) (As) (Sb) (Sb)	D.O. (mg/L) 0.60 0.60 0.59 0.60 LOWED PF WTPH-G) (NWTF S) (TSS) (E H) (Total Kie ranide) (Free	pH 6.11 6.11 6.11 6.11 6.11 6.11 CR BOTTLE (NWTPH-GX) PH-DX) (TPH BOD) (Turbidahl Nitroger Cyanide) (1) (Cd) (Co)	ORP (mV) 30.8 30.7 30.6 30.4 30.6 TYPE (Circle ap.) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover of the Control of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA 3) (NO2) (F)	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 19.9 19.9 19.9 19.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 652 652 653 653 653 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	D.O. (mg/L) 0.60 0.60 0.59 0.60 LOWED PERWITPH-G) (MITPH-G) (pH 6.11 6.11 6.11 6.11 6.11 6.11 CR BOTTLE (NWTPH-GX) PH-DX) (TPH BOD) (Turbidahl Nitroger Cyanide) (1) (Cd) (Co)	ORP (mV) 30.8 30.7 30.6 30.4 30.6 TYPE (Circle ap.) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover of the Control of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA 3) (NO2) (F)	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 19.9 19.9 19.9 19.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 652 652 653 653 653 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 de) (WAD Cy de) (As) (Sb) (etals) (As) (Sb) (Sb)	D.O. (mg/L) 0.60 0.60 0.59 0.60 LOWED PERWITPH-G) (MITPH-G) (pH 6.11 6.11 6.11 6.11 6.11 6.11 CR BOTTLE (NWTPH-GX) PH-DX) (TPH BOD) (Turbidahl Nitroger Cyanide) (1) (Cd) (Co)	ORP (mV) 30.8 30.7 30.6 30.4 30.6 TYPE (Circle ap.) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover of the Control of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA 3) (NO2) (F)	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 19.9 19.9 19.9 19.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 652 652 653 653 653 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	D.O. (mg/L) 0.60 0.60 0.59 0.60 LOWED PERWITPH-G) (MITPH-G) (pH 6.11 6.11 6.11 6.11 6.11 6.11 CR BOTTLE (NWTPH-GX) PH-DX) (TPH BOD) (Turbidahl Nitroger Cyanide) (1) (Cd) (Co)	ORP (mV) 30.8 30.7 30.6 30.4 30.6 TYPE (Circle ap.) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover of the Control of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA 3) (NO2) (F)	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 19.9 19.9 19.9 19.9 TYPICAL A (8260) (8010 (8270D) (PA (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 652 652 653 653 653 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	D.O. (mg/L) 0.60 0.60 0.59 0.60 LOWED PERWITPH-G) (MITPH-G) (pH 6.11 6.11 6.11 6.11 6.11 6.11 CR BOTTLE (NWTPH-GX) PH-DX) (TPH BOD) (Turbidahl Nitroger Cyanide) (1) (Cd) (Co)	ORP (mV) 30.8 30.7 30.6 30.4 30.6 TYPE (Circle ap.) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover of the Control of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA 3) (NO2) (F)	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 19.9 19.9 19.9 19.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 652 652 653 653 653 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	D.O. (mg/L) 0.60 0.60 0.59 0.60 LOWED PERWITPH-G) (MITPH-G) (pH 6.11 6.11 6.11 6.11 6.11 6.11 CR BOTTLE (NWTPH-GX) PH-DX) (TPH BOD) (Turbidahl Nitroger Cyanide) (1) (Cd) (Co)	ORP (mV) 30.8 30.7 30.6 30.4 30.6 TYPE (Circle ap.) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover of the Control of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA 3) (NO2) (F)	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 19.9 19.9 19.9 19.9 TYPICAL A (8260) (8010 (8270D) (PA (PH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 652 652 653 653 653 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	D.O. (mg/L) 0.60 0.60 0.59 0.60 LOWED PERWITPH-G) (MITPH-G) (pH 6.11 6.11 6.11 6.11 6.11 6.11 CR BOTTLE (NWTPH-GX) PH-DX) (TPH BOD) (Turbidahl Nitroger Cyanide) (1) (Cd) (Co)	ORP (mV) 30.8 30.7 30.6 30.4 30.6 TYPE (Circle ap.) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover of the Control of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA 3) (NO2) (F)	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 19.9 19.9 19.9 19.9 TYPICAL A (8260) (8010 (8270D) (PA (PH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 652 652 653 653 653 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	D.O. (mg/L) 0.60 0.60 0.59 0.60 LOWED PERWITPH-G) (MITPH-G) (pH 6.11 6.11 6.11 6.11 6.11 6.11 CR BOTTLE (NWTPH-GX) PH-DX) (TPH BOD) (Turbidahl Nitroger Cyanide) (1) (Cd) (Co)	ORP (mV) 30.8 30.7 30.6 30.4 30.6 TYPE (Circle ap.) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover of the Control of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA 3) (NO2) (F)	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3 Duplicate San	Temp (°F/°C) 19.9 19.9 19.9 19.9 TYPICAL A (8260) (8010 (8270D) (PA (PH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 652 652 653 653 653 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	D.O. (mg/L) 0.60 0.60 0.59 0.60 LOWED PP WTPH-G) (NWTP B-D) (NWTP S) (TSS) (Fee anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca cetylene	pH 6.11 6.11 6.11 6.11 6.11 6.11 CR BOTTLE (NWTPH-GX) PH-DX) (TPH BOD) (Turbidahl Nitroger Cyanide) (1) (Cd) (Co)	ORP (mV) 30.8 30.7 30.6 30.4 30.6 TYPE (Circle ap.) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover of the Control of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA 3) (NO2) (F)	Comments/ Observations OR OR OR OR OR OR OR OR OR OR



Project Name	e:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/22/2022@	1040		
Sample Num	nber:	RGW014S-	220222		Weather:	INSIDE			
Landau Repr	resentative:	AHA							
WATER LEV	EL/WELL/PU	IRGE DATA							
Well Conditio	n:	Secure (YES)	Damaged (N	O)	Describe:	FLUSHMOUN	Т	
DTW Before l	Purging (ft)	5.27	Time:		Flow through ce	ll vol.		GW Meter No.(s	HERON 2
Begin Purge:		2/ 22/2022 @		End Purge:	-	2/ 22 /2022 @	1038	Gallons Purged:	0.25
Purge water d			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATMI	
8	•		-			_	_		
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	` /	` /	on of Parame		()	dings within the fo	` '	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1018	16.1	437.1	0.99	6.22	91.7		5.27		
1021	16.0	465.8	0.91	6.24	82.2		5.27		
1024	16.4	482.9	1.23	6.26	71.1		5.27		
1027	16.7	502.0	1.33	6.29	62.5		5.27		
							3.27		
1030	17.2	513.0	0.87	6.31	57.7				
1033	17.3	520.0	0.67	6.32	53.1				
1036	17.5	523.0	0.59	6.32	51.9				
SAMPLE CO									
Sample Collec	cted With:		Bailer		Pump/Pump Type			_	
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	1 ()								
	· ·	Other							
	· ·	-	, sheen, etc.):	LIGHT BRO	WN, LOW -MEI	TURB. NO ODO	R, NO SHEEN S	USPENDE PART	ICULATES
Sample Descr	iption (color, t	turbidity, odor	· -						
	· ·	-	D.O. (mg/L)	LIGHT BRO	ORP (mV)	Turbidity (NTU)	R, NO SHEEN S DTW (ft)	USPENDE PART Ferrous iron (Fe II)	Comments/ Observations
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.32	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr Replicate	Temp (°F/°C) 17.5	Cond. (uS/cm) 524	D.O. (mg/L) 0.58	pH 6.32 6.32	ORP (mV) 51.9	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.32	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2	Temp (°F/°C) 17.5	Cond. (uS/cm) 524	D.O. (mg/L) 0.58	pH 6.32 6.32	ORP (mV) 51.9	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3	Temp (°F/°C) 17.5 17.5	Cond. (uS/cm) 524 525 543	D.O. (mg/L) 0.58 0.59	pH 6.32 6.32 6.32	ORP (mV) 51.9 51.5	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 17.5 17.5 17.6 17.5	Cond. (uS/cm) 524 525 543 543	D.O. (mg/L) 0.58 0.59 0.57 0.88	6.32 6.32 6.32 6.32 6.32	ORP (mV) 51.9 51.5 51.5 51.2 51.5	Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 17.5 17.5 17.6 17.5	Cond. (uS/cm) 524 525 543 543	D.O. (mg/L) 0.58 0.59 0.57 0.88 0.66	6.32 6.32 6.32 6.32 6.32 6.32	ORP (mV) 51.9 51.5 51.5 51.2 51.5 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 17.5 17.5 17.6 17.5 17.6 17.5 (8260) (8010	Cond. (uS/cm) 524 525 543 543 534 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.58 0.59 0.57 0.88 0.66 LOWED PE	6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX	ORP (mV) 51.9 51.5 51.5 51.2 51.5 TYPE (Circle aport) (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 17.5 17.5 17.6 17.5 17.6 17.5 17.6 (8260) (8010 (8270D) (PA	Cond. (uS/cm) 524 525 543 543 534 NALYSIS AI O) (8020) (NAH) (NWTPH	D.O. (mg/L) 0.58 0.59 0.57 0.88 0.66 LOWED PE	6.32 6.32 6.32 6.32 6.32 RR BOTTLE NWTPH-GX;	ORP (mV) 51.9 51.5 51.5 51.2 51.5 TYPE (Circle ap (BTEX)) I-HCID) (8081)	Turbidity (NTU) #DIV/0! oplicable or write	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) allysis below) WA WA WA	Comments/ Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 17.5 17.5 17.6 17.5 17.6 17.6 17.6 (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 524 525 543 543 534 NALYSIS AI () (8020) (N AH) (NWTPH activity) (TD: (C) (Total PO4	D.O. (mg/L) 0.58 0.59 0.57 0.88 0.66 LOWED PENWTPH-G) (NWTP S) (TSS) (B	6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-Gx H-Dx) (TPHOD) (Turbic dahl Nitroger	ORP (mV) 51.9 51.5 51.5 51.2 51.5 TYPE (Circle ap (BTEX)) I-HCID) (8081)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gro) (HCO3/CO3) (6	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) allysis below) WA WA WA	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.5 17.5 17.5 17.6 17.5 17.6 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid	Cond. (uS/cm) 524 525 543 543 534 NALYSIS AI (0) (8020) (N AH) (NWTPHetivity) (TDS (C) (Total PO4 (e) (WAD Cy	D.O. (mg/L) 0.58 0.59 0.57 0.88 0.66 LOWED PE WTPH-G) (NWTP S) (TSS) (E 4) (Total Kie ranide) (Free	6.32 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX; H-Dx) (TPHOD) (Turbidahl Nitroger Cyanide)	ORP (mV) 51.9 51.5 51.5 51.2 51.5 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity)	#DIV/0! #DIV/0! pplicable or write: (8141) (Oil & Gr. (HCO3/CO3) (O. (NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.5 17.5 17.6 17.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanid) (Total Metals)	Cond. (uS/cm) 524 525 543 543 534 NALYSIS AI (D) (8020) (NAH) (NWTPHetivity) (TDS) (C) (Total POC) (E) (WAD Cy) (AS) (Sb) (D.O. (mg/L) 0.58 0.59 0.57 0.88 0.66 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX H-DX) (TPHOD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 51.9 51.5 51.5 51.5 51.2 51.5 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (Oil (NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA WA Solution WING WING WING WING WING WING WING WING	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.5 17.5 17.6 17.5 17.6 17.6 17.6 (8260) (8010) (8270D) (PA) (pH) (Conduction (COD) (Total Cyanid (Total Metals)) (Dissolved Metals)	Cond. (uS/cm) 524 525 543 543 534 NALYSIS AI 0) (8020) (N C) (Total PO4 e) (WAD Cy c) (As) (Sb) (cetals) (As) (Sb) (Sb)	D.O. (mg/L) 0.58 0.59 0.57 0.88 0.66 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX H-DX) (TPHOD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 51.9 51.5 51.5 51.5 51.2 51.5 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (Oil (NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA WA Solution WING WING WING WING WING WING WING WING	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.5 17.5 17.6 17.5 17.6 17.6 17.6 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein	Cond. (uS/cm) 524 525 543 543 534 NALYSIS AI () (8020) (N () (NWTPHetivity) (TD) (C) (Total PO- (e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.58 0.59 0.57 0.88 0.66 LOWED PE WTPH-G) (NWTP S) (TSS) (B d) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX H-DX) (TPHOD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 51.9 51.5 51.5 51.5 51.2 51.5 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (Oil (NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA WA Solution WING WING WING WING WING WING WING WING	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.5 17.5 17.6 17.5 17.6 17.6 17.6 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein	Cond. (uS/cm) 524 525 543 543 534 NALYSIS AI 0) (8020) (N C) (Total PO4 e) (WAD Cy c) (As) (Sb) (cetals) (As) (Sb) (Sb)	D.O. (mg/L) 0.58 0.59 0.57 0.88 0.66 LOWED PE WTPH-G) (NWTP S) (TSS) (B d) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX H-DX) (TPHOD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 51.9 51.5 51.5 51.5 51.2 51.5 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (Oil (NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA WA Solution WING WING WING WING WING WING WING WING	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.5 17.5 17.6 17.5 17.6 17.6 17.6 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein	Cond. (uS/cm) 524 525 543 543 534 NALYSIS AI () (8020) (N () (NWTPHetivity) (TD) (C) (Total PO- (e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.58 0.59 0.57 0.88 0.66 LOWED PE WTPH-G) (NWTP S) (TSS) (B d) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX H-DX) (TPHOD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 51.9 51.5 51.5 51.5 51.2 51.5 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (Oil (NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA WA Solution WING WING WING WING WING WING WING WING	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.5 17.5 17.6 17.5 17.6 17.6 17.6 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 524 525 543 543 534 NALYSIS AI () (8020) (N () (NWTPHetivity) (TD) (C) (Total PO- (e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.58 0.59 0.57 0.88 0.66 LOWED PE WTPH-G) (NWTP S) (TSS) (B d) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX H-DX) (TPHOD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 51.9 51.5 51.5 51.5 51.2 51.5 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (Oil (NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA WA Solution WING WING WING WING WING WING WING WING	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.5 17.5 17.6 17.5 17.6 17.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 524 525 543 543 534 NALYSIS AI () (8020) (N () (NWTPHetivity) (TD) (C) (Total PO- (e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.58 0.59 0.57 0.88 0.66 LOWED PE WTPH-G) (NWTP S) (TSS) (B d) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX H-DX) (TPHOD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 51.9 51.5 51.5 51.5 51.2 51.5 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (Oil (NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA WA Solution WING WING WING WING WING WING WING WING	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.5 17.5 17.6 17.5 17.6 17.6 17.6 17.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 524 525 543 543 534 NALYSIS AI O) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO2 e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb g short list) lane Ethene Ac	D.O. (mg/L) 0.58 0.59 0.57 0.88 0.66 LOWED PE WTPH-G) (NWTP S) (TSS) (B d) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX H-DX) (TPH OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co) Ca) (Cd) (Co)	ORP (mV) 51.9 51.5 51.5 51.5 51.2 51.5 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (Oil (NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA WA Solution WING WING WING WING WING WING WING WING	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.5 17.5 17.6 17.5 17.6 17.6 17.6 17.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 524 525 543 543 534 NALYSIS AI O) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO2 e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb g short list) lane Ethene Ac	D.O. (mg/L) 0.58 0.59 0.57 0.88 0.66 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca cetylene	pH 6.32 6.32 6.32 6.32 6.32 R BOTTLE NWTPH-GX H-DX) (TPH OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co) Ca) (Cd) (Co)	ORP (mV) 51.9 51.5 51.5 51.5 51.2 51.5 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (Oil (NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA WA Solution WING WING WING WING WING WING WING WING	Comments/ Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ie:	Boeing Ren	ton		Project Number	er:	0025217.099.0	199	
Event:		Feb. 2022			Date/Time:	2/ 22 /2022@	1045		
Sample Nun	nber:	RGWDUP4	220222		Weather:	INSIDE			
Landau Rep	resentative:	AHA							
WATER LEV	/EL/WELL/PU	RGE DATA							
Well Condition		Secure (YES)	Damaged (N	(O)	Describe:			
DTW Before	Purging (ft)		Time:		Flow through ce	ll vol.		GW Meter No.(s	;)
	Date/Time:	2/ /2022 @		End Purge:	_	2/ /2022 @		Gallons Purged:	·)
Purge water d			55-gal Drum	Ě	Storage Tank	Ground	Other	SITE TREATMI	ENT SYSTEM
8	•				-	_	_		
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	` ′	` /		ters for three	` ′	dings within the fo	. ,	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
	-	DUI	PLICA	ATE I	TO RGV	W014S			
	· 							· 	
	-								
						· 		· 	
						· 			
SAMPLE CO	LLECTION D	ATA							
Sample Colle			Bailer	П	Pump/Pump Type	e			
Made of:		Stainless Stee	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Was		Tap Rinse	DI Water	Dedicated			
Decoil 1 locco	ше. Ш	AICOHOA Was	511 [[]	rap Kinsc					
(Ry Numerica	d Order)	Other		•					
(By Numerical		Other	shaan ata):	I IGHT DDC	<u>—</u>		D NO SHEEN S	USDENIDE DADT	ICH ATES
, -		-	, sheen, etc.):	LIGHT BRO	<u>—</u>	O TURB. NO ODOI	R, NO SHEEN S	SUSPENDE PART	TCULATES
, -		-	, sheen, etc.):	LIGHT BRO	<u>—</u>		R, NO SHEEN S	SUSPENDE PART	Comments/
Sample Descr	ription (color, t	turbidity, odor	· <u>-</u>		DWN, LOW -MEI	O TURB. NO ODOI			
Sample Descr	Temp	curbidity, odor	D.O.		OWN, LOW -MEI	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.32	OWN, LOW -MEI ORP (mV) 51.6	Turbidity	DTW	Ferrous iron	Comments/
Sample Description Replicate 1 2	Temp (°F/°C) 17.4 17.5	Cond. (uS/cm) 524	D.O. (mg/L) 0.59	pH 6.32 6.32	OWN, LOW -MEI ORP (mV) 51.6 51.5	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3	Temp (°F/°C) 17.4 17.5 17.5	Cond. (uS/cm) 524 525 543	D.O. (mg/L) 0.59 0.58	pH 6.32 6.32 6.32	OWN, LOW -MED ORP (mV) 51.6 51.5 51.3	Turbidity	DTW	Ferrous iron	Comments/
Sample Description Replicate 1 2	Temp (°F/°C) 17.4 17.5	Cond. (uS/cm) 524	D.O. (mg/L) 0.59	pH 6.32 6.32	OWN, LOW -MEI ORP (mV) 51.6 51.5	TURB. NO ODOI Turbidity (NTU)	DTW	Ferrous iron	Comments/
Replicate 1 2 3	Temp (°F/°C) 17.4 17.5 17.5	Cond. (uS/cm) 524 525 543	D.O. (mg/L) 0.59 0.58	pH 6.32 6.32 6.32	OWN, LOW -MED ORP (mV) 51.6 51.5 51.3	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 17.4 17.5 17.5 17.6	Cond. (uS/cm) 524 525 543 544 534	D.O. (mg/L) 0.59 0.58 1.13 0.78	6.32 6.32 6.32 6.32 6.32	OWN, LOW -MEI ORP (mV) 51.6 51.5 51.2 51.4	TURB. NO ODOI Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 17.4 17.5 17.5 17.6 17.5	Cond. (uS/cm) 524 525 543 544 534	D.O. (mg/L) 0.59 0.58 1.13 0.78 0.77	6.32 6.32 6.32 6.32 6.32 6.32	OWN, LOW -MEI ORP (mV) 51.6 51.5 51.2 51.4 TYPE (Circle a)	TURB. NO ODOI Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 17.4 17.5 17.5 17.6 17.5 17.6 (8260) (8010	Cond. (uS/cm) 524 525 543 544 534 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.59 0.58 1.13 0.78 0.77 LLOWED PE	6.32 6.32 6.32 6.32 6.32 6.32 REPORTLE	OWN, LOW -MEI ORP (mV) 51.6 51.3 51.2 51.4 TYPE (Circle aport) (BTEX)	TURB. NO ODOI Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 17.4 17.5 17.6 17.5 TYPICAL AI (8260) (8010) (8270D) (PA	Cond. (uS/cm) 524 525 543 544 534 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.59 0.58 1.13 0.78 0.77 LOWED PE	6.32 6.32 6.32 6.32 6.32 CR BOTTLE NWTPH-GX;	OWN, LOW -MEI ORP (mV) 51.6 51.5 51.3 51.2 51.4 TYPE (Circle application of the company o	Turbidity (NTU) #DIV/0!	DTW (ft) non-standard a	Ferrous iron (Fe II) nalysis below) WA WA WA	Comments/ Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 17.4 17.5 17.6 17.5 TYPICAL AI (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 524 525 543 544 534 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS	D.O. (mg/L) 0.59 0.58 1.13 0.78 0.77 LOWED PE WTPH-G) (M-D) (NWTP S) (TSS) (B	6.32 6.32 6.32 6.32 6.32 6.32 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GOD) (Turbic	OWN, LOW -MEI ORP (mV) 51.6 51.5 51.3 51.2 51.4 TYPE (Circle application of the company o	#DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (Gr.)	DTW (ft) non-standard a	Ferrous iron (Fe II) nalysis below) WA WA WA	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.4 17.5 17.5 17.6 17.5 17.6 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC	Cond. (uS/cm) 524 525 543 544 534 NALYSIS AI (0) (8020) (N (NWTPHetivity) (TDS) (C) (Total PO4 (e) (WAD Cy	D.O. (mg/L) 0.59 0.58 1.13 0.78 0.77 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie anide) (Free	6.32 6.32 6.32 6.32 6.32 6.32 CR BOTTLE NWTPH-GX PH-Dx) (TPH-GX) OD) (Turbid dahl Nitroger Cyanide)	OWN, LOW -MEI ORP (mV) 51.6 51.5 51.3 51.2 51.4 TYPE (Circle approximately (BTEX) H-HCID) (8081) dity) (Alkalinity (Al	#DIV/0! #DIV/0! pplicable or write in the control of the control	DTW (ft) non-standard and arease) CI) (SO4) (NC	Ferrous iron (Fe II) nalysis below) WA WA ON WA ON WA ON WA ON WA ON WA ON WA WA WA WA WA WA WA WA WA WA	Comments/ Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.4 17.5 17.6 17.5 TYPICAL AI (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 524 525 543 544 534 NALYSIS AI () (8020) (N CH) (NWTPF detivity) (TDS C) (Total PO4 e) (WAD Cy () (As) (Sb) (D.O. (mg/L) 0.59 0.58 1.13 0.78 0.77 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.32 6.32 6.32 6.32 6.32 6.32 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	OWN, LOW -MEI ORP (mV) 51.6 51.5 51.3 51.2 51.4 TYPE (Circle aportion of the content of t	#DIV/0! #DIV/0! pplicable or write in the image of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA O O O O O O O O O O O O O O O O O O O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.4 17.5 17.6 17.5 TYPICAL AI (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved Metals)	Cond. (uS/cm) 524 525 543 544 534 NALYSIS AI 0) (8020) (N H) (NWTPHetivity) (TDS C) (Total PO4 e) (WAD Cy o) (As) (Sb) ((etals) (As) (Sb) ((stals) (As) (Sb)	D.O. (mg/L) 0.59 0.58 1.13 0.78 0.77 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.32 6.32 6.32 6.32 6.32 6.32 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	OWN, LOW -MEI ORP (mV) 51.6 51.5 51.3 51.2 51.4 TYPE (Circle aportion of the company of t	#DIV/0! #DIV/0! pplicable or write in the image of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA O O O O O O O O O O O O O O O O O O O	Comments/ Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.4 17.5 17.6 17.5 TYPICAL AI (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved Metals)	Cond. (uS/cm) 524 525 543 544 534 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.59 0.58 1.13 0.78 0.77 LOWED PE WTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kielanide) (Freel Ba) (Be) (Called Ba) (6.32 6.32 6.32 6.32 6.32 6.32 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	OWN, LOW -MEI ORP (mV) 51.6 51.5 51.3 51.2 51.4 TYPE (Circle aportion of the company of t	#DIV/0! #DIV/0! pplicable or write in the image of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA O O O O O O O O O O O O O O O O O O O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.4 17.5 17.6 17.5 TYPICAL AI (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved Metals)	Cond. (uS/cm) 524 525 543 544 534 NALYSIS AI 0) (8020) (N H) (NWTPHetivity) (TDS C) (Total PO4 e) (WAD Cy o) (As) (Sb) ((etals) (As) (Sb) ((stals) (As) (Sb)	D.O. (mg/L) 0.59 0.58 1.13 0.78 0.77 LOWED PE WTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kielanide) (Freel Ba) (Be) (Called Ba) (6.32 6.32 6.32 6.32 6.32 6.32 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	OWN, LOW -MEI ORP (mV) 51.6 51.5 51.3 51.2 51.4 TYPE (Circle aportion of the company of t	#DIV/0! #DIV/0! pplicable or write in the image of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA O O O O O O O O O O O O O O O O O O O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.4 17.5 17.6 17.5 TYPICAL AI (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved Metals)	Cond. (uS/cm) 524 525 543 544 534 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.59 0.58 1.13 0.78 0.77 LOWED PE WTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kielanide) (Freel Ba) (Be) (Called Ba) (6.32 6.32 6.32 6.32 6.32 6.32 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	OWN, LOW -MEI ORP (mV) 51.6 51.5 51.3 51.2 51.4 TYPE (Circle aportion of the company of t	#DIV/0! #DIV/0! pplicable or write in the image of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA O O O O O O O O O O O O O O O O O O O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.4 17.5 17.6 17.5 TYPICAL AI (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved Methane Eth	Cond. (uS/cm) 524 525 543 544 534 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.59 0.58 1.13 0.78 0.77 LOWED PE WTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kielanide) (Freel Ba) (Be) (Called Ba) (6.32 6.32 6.32 6.32 6.32 6.32 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	OWN, LOW -MEI ORP (mV) 51.6 51.5 51.3 51.2 51.4 TYPE (Circle aportion of the company of t	#DIV/0! #DIV/0! pplicable or write in the image of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA O O O O O O O O O O O O O O O O O O O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.4 17.5 17.6 17.5 TYPICAL AI (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved Metals)	Cond. (uS/cm) 524 525 543 544 534 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.59 0.58 1.13 0.78 0.77 LOWED PE WTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kielanide) (Freel Ba) (Be) (Called Ba) (6.32 6.32 6.32 6.32 6.32 6.32 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	OWN, LOW -MEI ORP (mV) 51.6 51.5 51.3 51.2 51.4 TYPE (Circle aportion of the company of t	#DIV/0! #DIV/0! pplicable or write in the image of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA O O O O O O O O O O O O O O O O O O O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.4 17.5 17.6 17.5 17.6 17.5 TYPICAL AI (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved Methane Eth	Cond. (uS/cm) 524 525 543 544 534 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.59 0.58 1.13 0.78 0.77 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca cetylene	6.32 6.32 6.32 6.32 6.32 6.32 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	OWN, LOW -MEI ORP (mV) 51.6 51.5 51.3 51.2 51.4 TYPE (Circle aportion of the company of t	#DIV/0! #DIV/0! pplicable or write in the image of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA O O O O O O O O O O O O O O O O O O O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 17.4 17.5 17.6 17.5 17.6 17.5 TYPICAL AI (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved Methane Eth	Cond. (uS/cm) 524 525 543 544 534 NALYSIS AI (in the continuous of the continuous o	D.O. (mg/L) 0.59 0.58 1.13 0.78 0.77 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca cetylene	6.32 6.32 6.32 6.32 6.32 6.32 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	OWN, LOW -MEI ORP (mV) 51.6 51.5 51.3 51.2 51.4 TYPE (Circle aportion of the company of t	#DIV/0! #DIV/0! pplicable or write in the image of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA O O O O O O O O O O O O O O O O O O O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3 Duplicate Sar	Temp (°F/°C) 17.4 17.5 17.6 17.5 17.6 17.5 TYPICAL AI (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved Methane Eth	Cond. (uS/cm) 524 525 543 544 534 NALYSIS AI (in the continuous of the continuous o	D.O. (mg/L) 0.59 0.58 1.13 0.78 0.77 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca cetylene	6.32 6.32 6.32 6.32 6.32 6.32 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	OWN, LOW -MEI ORP (mV) 51.6 51.5 51.3 51.2 51.4 TYPE (Circle aportion of the company of t	#DIV/0! #DIV/0! pplicable or write in the image of the	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA O O O O O O O O O O O O O O O O O O O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	e:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 22 /2022@	922		
Sample Num	nber:	RGW033S-	220222		Weather:	SUNNY 30'S			
Landau Repi	resentative:	AHA/JAM/	SJL		·				
WATER LEV	FI/WFII/PI	IRGE DATA							
Well Condition)	Damaged (N	[0]	Describe:	FLUSH		
			^	• ,			TECSII	CW Matan Na (a	CLODE INDICATOL
DTW Before		5.52	Time:		Flow through cel			-	SLOPE INDICATOL
Begin Purge:		2/ 22 /2022		End Purge:		2/ 22 /2022 @		Gallons Purged:	
Purge water d	isposed to:		55-gal Drum	Ш	Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	tous fou thus	(mV)	(NTU)	(ft)	Volume (gal)	Observations
	+/- 3%	+/- 3%		+/- 0.1 units		dings within the fo +/- 10%	< 0.3 ft	>/= 1 flow through cell	
858	11.2	433.4	2.63	6.16	-36.9	, 50,0	5.53	g	
901	10.4	416.0	2.42	6.01	-51.8		5.53		
904	10.3	413.6	2.46	6.00	-55.1		5.53		
907	9.5	404.3	2.35	5.98	-58.5				
910	9.3	394.0	2.36	5.97	-60.1				
913	9.0	391.3	2.32	5.97	-60.8				
916	8.5	384.5	2.32	5.97	-62.0				
SAMPLE CO									
Sample Collec	cted With:	_	Bailer	_	Pump/Pump Type			_	
Made of:		Stainless Ste	el	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	101	— ·							
(By Numerica	l Order)	Other					•		
. •			, sheen, etc.):	CLEAR, CO	LORLESS, NO/N	IS			
Sample Descr	ription (color,	turbidity, odor							
. •	Temp	turbidity, odor	D.O.	CLEAR, CO	ORP	Turbidity	DTW (ft)	Ferrous iron	Comments/
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)		DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	Temp	turbidity, odor	D.O.		ORP	Turbidity			
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity			
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 5.96	ORP (mV)	Turbidity			
Replicate 1 2	Temp (°F/°C) 8.5	Cond. (uS/cm) 380.4	D.O. (mg/L) 2.35 2.37	pH 5.96 5.97	ORP (mV) -62.1	Turbidity			
Replicate 1 2 3 4	Temp (°F/°C) 8.5 8.2 8.2	Cond. (uS/cm) 380.4 380.8 379.5	D.O. (mg/L) 2.35 2.37 2.34	pH 5.96 5.97 5.97	ORP (mV) -62.1 -62.2	Turbidity			
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.5 8.2 8.2 8.3	Cond. (uS/cm) 380.4 380.8 379.5 379.1 380.0	D.O. (mg/L) 2.35 2.37 2.34 2.33 2.35	pH 5.96 5.97 5.96 5.97	ORP (mV) -62.1 -62.2 -62.2 -62.3	Turbidity (NTU) #DIV/0!	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.5 8.2 8.2 8.3 TYPICAL A	Cond. (uS/cm) 380.4 380.8 379.5 379.1 380.0	D.O. (mg/L) 2.35 2.37 2.34 2.33 2.35	5.96 5.97 5.96 5.97 5.96 5.97	ORP (mV) -62.1 -62.2 -62.3 -62.2 TYPE (Circle ap	Turbidity (NTU)	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.5 8.2 8.2 8.3 8.3 TYPICAL A (8260) (8010	Cond. (uS/cm) 380.4 380.8 379.5 379.1 380.0 NALYSIS AI	D.O. (mg/L) 2.35 2.37 2.34 2.33 2.35 LOWED PE	5.96 5.97 5.96 5.97 5.96 5.97 RR BOTTLE NWTPH-GX	ORP (mV) -62.1 -62.2 -62.3 -62.3 -62.2 TYPE (Circle apple) (BTEX)	Turbidity (NTU) #DIV/0! oplicable or write	(ft)	nalysis below)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.5 8.2 8.2 8.3 8.3 TYPICAL A (8260) (8010) (8270) (PAF	Cond. (uS/cm) 380.4 380.8 379.5 379.1 380.0 NALYSIS AI 0) (8020) (NI) (NWTPH-	D.O. (mg/L) 2.35 2.37 2.34 2.33 2.35 LOWED PE	5.96 5.97 5.96 5.97 5.96 5.97 CR BOTTLE NWTPH-Gx, (-Dx) (TPH-	ORP (mV) -62.1 -62.2 -62.2 -62.3 -62.2 TYPE (Circle approximately (BTEX) HCID) (8081) (#DIV/0! pplicable or write	non-standard an	nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.5 8.2 8.2 8.3 TYPICAL A (8260) (8010 (8270) (PAE (pH) (Condu	Cond. (uS/cm) 380.4 380.8 379.5 379.1 380.0 NALYSIS AI 0) (8020) (NI) (NWTPH-activity) (TDS)	D.O. (mg/L) 2.35 2.37 2.34 2.33 2.35 LOWED PE WYPH-G) (NWTPH-G) (OD) (NWTPH-G) (FE) (TSS) (E)	5.96 5.97 5.96 5.97 5.96 5.97 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic	ORP (mV) -62.1 -62.2 -62.2 -62.3 -62.2 TYPE (Circle ap) (BTEX) HCID) (8081) (dity) (Alkalinity)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (6	non-standard an	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.5 8.2 8.3 8.3	Cond. (uS/cm) 380.4 380.8 379.5 379.1 380.0 NALYSIS AI (b) (8020) (NI) (NWTPH- detivity) (TD: (C) (Total PO-	D.O. (mg/L) 2.35 2.37 2.34 2.33 2.35 LOWED PENTPH-G) (D) (NWTPH S) (TSS) (B	5.96 5.97 5.96 5.97 5.96 5.97 CR BOTTLE NWTPH-Gx DD) (TPH-DO) (Turbidahl Nitroger	ORP (mV) -62.1 -62.2 -62.2 -62.3 -62.2 TYPE (Circle approximately (BTEX) HCID) (8081) (#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (6	non-standard an	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.5 8.2 8.3 8.3	Cond. (uS/cm) 380.4 380.8 379.5 379.1 380.0 NALYSIS AI (D) (8020) (NI) (NWTPH- (ctivity) (TDS) (C) (Total PO2/ce) (WAD Cy	D.O. (mg/L) 2.35 2.37 2.34 2.33 2.35 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free	5.96 5.97 5.96 5.97 5.96 5.97 CR BOTTLE NWTPH-Gx, F-Dx) (TPH-GOD) (Turbid dahl Nitroger Cyanide)	ORP (mV) -62.1 -62.2 -62.3 -62.3 -62.2 TYPE (Circle ap) (BTEX) HCID) (8081) (dity) (Alkalinity) (dity) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Green (HCO3/CO3) (Oil MCO3)	non-standard and asse)	(Fe II) malysis below) WA WA WA O WA WA	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.5 8.2 8.2 8.3 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 380.4 380.8 379.5 379.1 380.0 NALYSIS AI (D) (8020) (NI) (NWTPH- (activity) (TDS) (C) (Total PO- (e) (WAD Cy (dAs) (Sb) (D.O. (mg/L) 2.35 2.37 2.34 2.33 2.35 LOWED PE WYTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	5.96 5.97 5.96 5.97 5.96 5.97 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -62.1 -62.2 -62.3 -62.3 -62.2 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Gree) (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (non-standard and ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C)	Cond. (uS/cm) 380.4 380.8 379.5 379.1 380.0 NALYSIS AI 0) (8020) (N 1) (NWTPH- lectivity) (TDS C) (Total PO4 e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 2.35 2.37 2.34 2.33 2.35 LOWED PE WYTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	5.96 5.97 5.96 5.97 5.96 5.97 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -62.1 -62.2 -62.3 -62.3 -62.2 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Gree) (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (non-standard and ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.5 8.2 8.2 8.3 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 380.4 380.8 379.5 379.1 380.0 NALYSIS AI 0) (8020) (N 1) (NWTPH- lectivity) (TDS C) (Total PO4 e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 2.35 2.37 2.34 2.33 2.35 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.96 5.97 5.96 5.97 5.96 5.97 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -62.1 -62.2 -62.3 -62.3 -62.2 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Gree) (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (non-standard and ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.5 8.2 8.2 8.3 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 380.4 380.8 379.5 379.1 380.0 NALYSIS AI () (8020) (NI) (NWTPH- (activity) (TDS) (C) (Total PO4 (e) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 2.35 2.37 2.34 2.33 2.35 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.96 5.97 5.96 5.97 5.96 5.97 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -62.1 -62.2 -62.3 -62.3 -62.2 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Gree) (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (non-standard and ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.5 8.2 8.2 8.3 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 380.4 380.8 379.5 379.1 380.0 NALYSIS AI () (8020) (NI) (NWTPH- (activity) (TDS) (C) (Total PO4 (e) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 2.35 2.37 2.34 2.33 2.35 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.96 5.97 5.96 5.97 5.96 5.97 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -62.1 -62.2 -62.3 -62.3 -62.2 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Gree) (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (non-standard and ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.5 8.2 8.2 8.3 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 380.4 380.8 379.5 379.1 380.0 NALYSIS AI () (8020) (NI) (NWTPH- (activity) (TDS) (C) (Total PO4 (e) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 2.35 2.37 2.34 2.33 2.35 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.96 5.97 5.96 5.97 5.96 5.97 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -62.1 -62.2 -62.3 -62.3 -62.2 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Gree) (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (non-standard and ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.5 8.2 8.3 8.3 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 380.4 380.8 379.5 379.1 380.0 NALYSIS AI () (8020) (NI) (NWTPH- (activity) (TDS) (C) (Total PO4 (e) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 2.35 2.37 2.34 2.33 2.35 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.96 5.97 5.96 5.97 5.96 5.97 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -62.1 -62.2 -62.3 -62.3 -62.2 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Gree) (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (non-standard and ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5 1 Duplicate San	Temp (°F/°C) 8.5 8.2 8.3 8.3 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 380.4 380.8 379.5 379.1 380.0 NALYSIS AI () (8020) (NI) (NWTPH- (activity) (TDS) (C) (Total PO4 (e) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 2.35 2.37 2.34 2.33 2.35 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.96 5.97 5.96 5.97 5.96 5.97 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -62.1 -62.2 -62.3 -62.3 -62.2 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Gree) (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (non-standard and ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.5 8.2 8.3 8.3 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 380.4 380.8 379.5 379.1 380.0 NALYSIS AI () (8020) (NI) (NWTPH- (activity) (TDS) (C) (Total PO4 (e) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 2.35 2.37 2.34 2.33 2.35 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.96 5.97 5.96 5.97 5.96 5.97 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -62.1 -62.2 -62.3 -62.3 -62.2 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Gree) (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (non-standard and ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR



Project Nan	ne:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/22 /2022@	928		
Sample Nur	nber:	RGWDUP2	2220222		Weather:	SUNNY 30'S			
Landau Rep	resentative:	AHA/JAM/	/SJL						
WATER LEV	VEL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES)	Damaged (N	(O)	Describe:			
DTW Before		200010 (122	Time:	Duringen (1)	Flow through ce			GW Meter No.(s	.)
	Date/Time:	2/ /2022 @		End Purge:		2/ /2022 @,		Gallons Purged:	
Purge water of		2/ /2022 @	55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	
ruige water t	aisposed to.		55-gai Diuiii		Storage Talik	U Ground	U Other	SHE IKEAIWI	ENTSISIEM
Tr:	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C) Purge Goa	(uS/cm) ls: Stablizatio	(mg/L) on of Parame	ters for three	(mV) e consecutive rea	(NTU) dings within the fo	(ft) ollowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units		+/- 10%	< 0.3 ft	through cell	
	- 								
		DUI	PLICA	TE 7	TO RGV	W033S			
	- 					11 0335			
-									
SAMDI E CO	DLLECTION D) A T A							
Sample Colle		DATA	Bailer		Pump/Pump Type	BI ADDER			
•	cied with.	<u>ال</u> ده: داده ده				_	Other	Dadiastad	
Made of:		Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee	dure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
		_			_				
(By Numerica		Other							
		-	r, sheen, etc.):	CLEAR, CO	DLORLESS, NO/N	ıs			
Sample Desc	ription (color,	turbidity, odor					DTW	Farmong in an	Commentel
		turbidity, odor	D.O.	CLEAR, CO	ORP	Turbidity	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Desc Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)		DTW (ft)		
Sample Desc Replicate	Temp (°F/°C)	Cond. (uS/cm) 376.1	D.O. (mg/L)	рН 5.97	ORP (mV)	Turbidity			
Sample Desc Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity			
Sample Desc Replicate	Temp (°F/°C)	Cond. (uS/cm) 376.1	D.O. (mg/L)	рН 5.97	ORP (mV)	Turbidity			
Sample Desc Replicate 1 2	Temp (°F/°C) 8.2	Cond. (uS/cm) 376.1 375.7	D.O. (mg/L) 2.28 2.3	pH 5.97 5.97	ORP (mV) -62.5	Turbidity			
Replicate 1 2 3 4	Temp (°F/°C) 8.2 8.2 8.1	Cond. (uS/cm) 376.1 375.7 374.3	D.O. (mg/L) 2.28 2.3	pH 5.97 5.97 5.96	ORP (mV) -62.5 -62.5	Turbidity			
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.2 8.2 8.1 8.1	Cond. (uS/cm) 376.1 375.7 374.3 374.9 375.3	D.O. (mg/L) 2.28 2.3 2.3 2.28 2.3	5.97 5.97 5.96 5.97	ORP (mV) -62.5 -62.5 -62.6 -62.6	Turbidity (NTU) #DIV/0!	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.2 8.2 8.1 8.1 8.2	Cond. (uS/cm) 376.1 375.7 374.3 374.9 375.3	D.O. (mg/L) 2.28 2.3 2.3 2.28 2.3 LLOWED PE	5.97 5.97 5.96 5.97 6.0	ORP (mV) -62.5 -62.5 -62.6 -62.6 TYPE (Circle a)	Turbidity (NTU)	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.2 8.1 8.1 8.2 TYPICAL A (8260) (801)	Cond. (uS/cm) 376.1 375.7 374.3 374.9 375.3 NALYSIS AI	D.O. (mg/L) 2.28 2.3 2.3 2.28 2.3 2.LOWED PE	5.97 5.97 5.96 5.97 6.0 CR BOTTLE NWTPH-GX	ORP (mV) -62.5 -62.5 -62.6 -62.6 -62.6 TYPE (Circle apple) (BTEX)	Turbidity (NTU) #DIV/0!	(ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.2 8.2 8.1 8.1 8.2 TYPICAL A (8260) (8014) (8270) (PAH	Cond. (uS/cm) 376.1 375.7 374.3 374.9 375.3 NALYSIS AI 0) (8020) (NH) (NWTPH-	D.O. (mg/L) 2.28 2.3 2.28 2.3 2.28 2.0 2.10 2.10 2.28 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.	5.97 5.96 5.97 6.0 CR BOTTLE NWTPH-Gx,	ORP (mV) -62.5 -62.5 -62.6 -62.6 TYPE (Circle ap) (BTEX) HCID) (8081) (#DIV/0!	(ft)	(Fe II) nalysis below) WA WA	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.2 8.2 8.1 8.1 8.2 (8260) (8014) (8270) (PAH (pH) (Conductive)	Cond. (uS/cm) 376.1 375.7 374.3 374.9 375.3 NALYSIS AI 0) (8020) (NH) (NWTPH-activity) (TD:	D.O. (mg/L) 2.28 2.3 2.28 2.3 2.28 2.0 2.10 2.28 2.10 2.28 2.29 2.3 2.28 2.3 2.28 2.3 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10	5.97 5.96 5.97 6.0 CR BOTTLE (NWTPH-Gx) (1-Dx) (TPH-GOD) (Turbic	ORP (mV) -62.5 -62.6 -62.6 -62.6 TYPE (Circle ap) (BTEX) HCID) (8081) (dity) (Alkalinity	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (O	(ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	### Temp (°F/°C) 8.2 8.1 8.1 8.2 7TYPICAL A (8260) (8010) (8270) (PAR (PAR (COD)) (TOO) (TOO)	Cond. (uS/cm) 376.1 375.7 374.3 374.9 375.3 NALYSIS AI 0) (8020) (NH) (NWTPH- cuctivity) (TD: C) (Total PO-	D.O. (mg/L) 2.28 2.3 2.3 2.28 2.3 LOWED PENWTPH-G) (D) (NWTPH S) (TSS) (B	5.97 5.97 5.96 5.97 6.0 CR BOTTLE (NWTPH-Gx) I-Dx) (TPH-BOD) (Turbidahl Nitroger	ORP (mV) -62.5 -62.5 -62.6 -62.6 TYPE (Circle ap) (BTEX) HCID) (8081) (#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (O	(ft)	(Fe II) nalysis below) WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 5	### Temp (*F/*C)	Cond. (uS/cm) 376.1 375.7 374.3 374.9 375.3 NALYSIS AI 0) (8020) (N H) (NWTPH- detivity) (TD: C) (Total PO- de) (WAD Cy	D.O. (mg/L) 2.28 2.3 2.3 2.28 2.3 2.10 2.28 2.3 2.10 2.10 2.28 2.3 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10	5.97 5.97 5.96 5.97 6.0 CR BOTTLE (NWTPH-Gx) (I-Dx) (TPH-BOD) (Turbidahl Nitroger Cyanide)	ORP (mV) -62.5 -62.6 -62.6 -62.6 TYPE (Circle ap) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write: (8141) (Oil & Gre) (HCO3/CO3) (O	non-standard and asse)	(Fe II) malysis below) WA WA WA NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.2 8.1 8.1 8.2 TYPICAL A (8260) (801) (8270) (PAI (pH) (Condu (COD) (Total Cyanic (Total Metals	Cond. (uS/cm) 376.1 375.7 374.3 374.9 375.3 NALYSIS AI 0) (8020) (N H) (NWTPH- detivity) (TD: C) (Total PO- de) (WAD Cy) (As) (Sb) (D.O. (mg/L) 2.28 2.3 2.3 2.28 2.3 2.10 2.28 2.3 2.28 2.3 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10	5.97 5.96 5.97 6.0 CR BOTTLE (NWTPH-Gx) (I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -62.5 -62.6 -62.6 -62.6 TYPE (Circle ap or the content of the conte	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (O	non-standard and asse) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.2 8.2 8.1 8.1 8.2 TYPICAL A (8260) (801) (8270) (PAH (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M	Cond. (uS/cm) 376.1 375.7 374.3 374.9 375.3 NALYSIS AI 0) (8020) (N-H) (NWTPH- lectivity) (TDE C) (Total PO- de) (WAD Cy) (As) (Sb) (letals) (As) (Sb) (D.O. (mg/L) 2.28 2.3 2.3 2.28 2.3 2.10 2.28 2.3 2.28 2.3 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10	5.97 5.96 5.97 6.0 CR BOTTLE (NWTPH-Gx) (I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -62.5 -62.6 -62.6 -62.6 TYPE (Circle ap or the content of the conte	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (O	non-standard and asse) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.2 8.1 8.1 8.2 TYPICAL A (8260) (8010) (8270) (PAF (COD) (Total Cyanic (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 376.1 375.7 374.3 374.9 375.3 NALYSIS AI 0) (8020) (N-H) (NWTPH- lectivity) (TDE C) (Total PO- de) (WAD Cy) (As) (Sb) (letals) (As) (Sb) (D.O. (mg/L) 2.28 2.3 2.3 2.28 2.3 2.10WED PE NWTPH-G) (INWTPH-G) (INWT	5.97 5.96 5.97 6.0 CR BOTTLE (NWTPH-Gx) (I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -62.5 -62.6 -62.6 -62.6 TYPE (Circle ap or the content of the conte	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (O	non-standard and asse) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.2 8.1 8.1 8.2 TYPICAL A (8260) (8010) (8270) (PAF (COD) (Total Cyanic (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 376.1 375.7 374.3 374.9 375.3 NALYSIS AI 0) (8020) (NH) (NWTPHactivity) (TD: C) (Total POde) (WAD Cy) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 2.28 2.3 2.3 2.28 2.3 2.10WED PE NWTPH-G) (INWTPH-G) (INWT	5.97 5.96 5.97 6.0 CR BOTTLE (NWTPH-Gx) (I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -62.5 -62.6 -62.6 -62.6 TYPE (Circle ap or the content of the conte	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (O	non-standard and asse) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.2 8.1 8.1 8.2 TYPICAL A (8260) (8010) (8270) (PAF (COD) (Total Cyanic (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 376.1 375.7 374.3 374.9 375.3 NALYSIS AI 0) (8020) (NH) (NWTPHactivity) (TD: C) (Total POde) (WAD Cy) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 2.28 2.3 2.3 2.28 2.3 2.10WED PE NWTPH-G) (INWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca c) (Ba) (Be) (Ca	5.97 5.96 5.97 6.0 CR BOTTLE (NWTPH-Gx) (I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -62.5 -62.6 -62.6 -62.6 TYPE (Circle ap or the content of the conte	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (O	non-standard and asse) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.2 8.1 8.1 8.2 TYPICAL A (8260) (8010) (8270) (PAF (COD) (Total Cyanic (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 376.1 375.7 374.3 374.9 375.3 NALYSIS AI 0) (8020) (NH) (NWTPHactivity) (TD: C) (Total POde) (WAD Cy) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 2.28 2.3 2.3 2.28 2.3 2.10WED PE NWTPH-G) (INWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca c) (Ba) (Be) (Ca	5.97 5.96 5.97 6.0 CR BOTTLE (NWTPH-Gx) (I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -62.5 -62.6 -62.6 -62.6 TYPE (Circle ap or the content of the conte	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (O	non-standard and asse) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.2 8.1 8.1 8.2 TYPICAL A (8260) (801) (8270) (PAF (pH) (Condu (Total Cyanica (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 376.1 375.7 374.3 374.9 375.3 NALYSIS AI 0) (8020) (Note of the content of	D.O. (mg/L) 2.28 2.3 2.3 2.28 2.3 2.10 2.28 2.3 2.28 2.3 2.10 2.10 2.28 2.3 2.28 2.3 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10	5.97 5.96 5.97 6.0 CR BOTTLE (NWTPH-Gx) (I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -62.5 -62.6 -62.6 -62.6 TYPE (Circle ap or the content of the conte	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (O	non-standard and asse) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.2 8.1 8.1 8.2 TYPICAL A (8260) (801) (8270) (PAF (pH) (Condu (Total Cyanica (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 376.1 375.7 374.3 374.9 375.3 NALYSIS AI 0) (8020) (NH) (NWTPHactivity) (TD: C) (Total POde) (WAD Cy) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 2.28 2.3 2.3 2.28 2.3 2.10 2.28 2.3 2.28 2.3 2.10 2.10 2.28 2.3 2.28 2.3 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10	5.97 5.96 5.97 6.0 CR BOTTLE (NWTPH-Gx) (I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -62.5 -62.6 -62.6 -62.6 TYPE (Circle ap or the content of the conte	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (O	non-standard and asse) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 8.2 8.1 8.1 8.2 TYPICAL A (8260) (801) (8270) (PAF (pH) (Condu (Total Cyanica (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 376.1 375.7 374.3 374.9 375.3 NALYSIS AI 0) (8020) (Note of the content of	D.O. (mg/L) 2.28 2.3 2.3 2.28 2.3 2.10 2.28 2.3 2.28 2.3 2.10 2.10 2.28 2.3 2.28 2.3 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10	5.97 5.96 5.97 6.0 CR BOTTLE (NWTPH-Gx) (I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -62.5 -62.6 -62.6 -62.6 TYPE (Circle ap or the content of the conte	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (O	non-standard and asse) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON O	Observations OR OR OR OR OR OR OR OR OR OR



Project Nan	ne:	Boeing Ren	ton		Project Numbe	<u>r:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 22 /2022@	1002		
Sample Nur	nber:	RGW034S-	220222		Weather:	SNOWING, 30s	1		
Landau Rep	resentative:	AHA/JAM/	/SJL						
WATER LEV	VEL/WELL/PU	JRGE DATA							
Well Condition	on:	Secure (YES)	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	5.67	Time:	936	Flow through ce	ll vol.		GW Meter No.(s	SLOPE #2
	0 0 0	2/ 22 /2022		End Purge:	e	2/ 22 /2022 @	1001	Gallons Purged:	
Purge water of			55-gal Drum	_	Storage Tank	Ground		SITE TREATM	-
Turge water t	•				C	_	_	-	
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	, ,	` '	(0 /	ters for three	` ,	dings within the fo	` '	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
942	10.8	254.5	0.80	6.05	-16.2		5.64		
945	8.7	254.2	0.94	6.07	-31.6		5.64		
948		251.2	1.02	6.07	-40.9		5.62		
-							3.02		
951	7.2	247.1	1.10	6.08	-45.4				
954	6.2	242.0	1.21	6.07	-47.8				
957	5.6	237.0	1.30	6.07	-49.2				
1000	5.1	234.8	1.34	6.08	-50.0				
	- 								
SAMPLE CO	DLLECTION D)ATA							
Sample Colle			Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee	4	Alconox Was		Tap Rinse	DI Water	Dedicated	e omer	Bedreuted	
(By Numerica		Other	sii 🖳	1 ap Kilise	□ Di Water	Dedicated			
(by Numerica	ui Oruer)								
Sample Deco	rintion (color	turbidity odor	r chaan ato):	CLEAD CO	OLODIESS NO	vic.			
Sample Desc	ription (color,	turbidity, odor	r, sheen, etc.):	CLEAR, CO	DLORLESS, NO/I	NS			
Sample Desc Replicate	ription (color,	turbidity, odor	D.O.	pH	OLORLESS, NO/I	NS Turbidity	DTW	Ferrous iron	Comments/
		•	· · · · · · · · · · · · · · · · · · ·				DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
	Temp	Cond.	D.O.		ORP	Turbidity			
Replicate 1	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity			
Replicate 1 2	Temp (°F/°C) 5.2	Cond. (uS/cm) 234.2 234.1	D.O. (mg/L) 1.33	pH 6.08 6.08	ORP (mV) -50.1	Turbidity			
Replicate 1 2 3	Temp (°F/°C) 5.2 5.2	Cond. (uS/cm) 234.2 234.1 233.7	D.O. (mg/L) 1.33 1.34	pH 6.08 6.08 6.08	ORP (mV) -50.1 -50.2	Turbidity			
Replicate 1 2	Temp (°F/°C) 5.2	Cond. (uS/cm) 234.2 234.1	D.O. (mg/L) 1.33	pH 6.08 6.08	ORP (mV) -50.1	Turbidity			
Replicate 1 2 3	Temp (°F/°C) 5.2 5.2	Cond. (uS/cm) 234.2 234.1 233.7	D.O. (mg/L) 1.33 1.34	pH 6.08 6.08 6.08	ORP (mV) -50.1 -50.2	Turbidity			
Replicate 1 2 3 4	Temp (°F/°C) 5.2 5.2 5.2 5.0 5.2	Cond. (uS/cm) 234.2 234.1 233.7 233.4 233.9	D.O. (mg/L) 1.33 1.34 1.35 1.34	6.08 6.08 6.08 6.08 6.08	ORP (mV) -50.1 -50.2 -50.2 -50.3 -50.2	Turbidity (NTU)	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 5.2 5.2 5.2 5.0 5.2	Cond. (uS/cm) 234.2 234.1 233.7 233.4 233.9	D.O. (mg/L) 1.33 1.34 1.35 1.34 LLOWED PE	6.08 6.08 6.08 6.08 6.08	ORP (mV) -50.1 -50.2 -50.3 -50.2 TYPE (Circle a)	Turbidity (NTU) #DIV/0!	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 5.2 5.2 5.2 5.0 5.2 7 TYPICAL A (8260) (8010	Cond. (uS/cm) 234.2 234.1 233.7 233.4 233.9 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 1.33 1.34 1.35 1.34 LLOWED PE	6.08 6.08 6.08 6.08 6.08 R BOTTLE	ORP (mV) -50.1 -50.2 -50.3 -50.2 TYPE (Circle aport) (BTEX)	Turbidity (NTU) #DIV/0!	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 5.2 5.2 5.0 5.2 TYPICAL A (8260) (8010 (8270) (PAF	Cond. (uS/cm) 234.2 234.1 233.7 233.4 233.9 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 1.33 1.34 1.35 1.34 LLOWED PENWTPH-G) (6.08 6.08 6.08 6.08 6.08 RBOTTLE NWTPH-Gx,	ORP (mV) -50.1 -50.2 -50.2 -50.3 -50.2 TYPE (Circle aport (Circle	Turbidity (NTU) #DIV/0!	(ft)	nalysis below) WA WA WA	Observations OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 5.2 5.2 5.2 5.0 5.2 7 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu	Cond. (uS/cm) 234.2 234.1 233.7 233.4 233.9 NALYSIS AI 0) (8020) (NH) (NWTPH- lectivity) (TD:	D.O. (mg/L) 1.33 1.34 1.35 1.34 LLOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B	6.08 6.08 6.08 6.08 6.08 R BOTTLE NWTPH-Gx -Dx) (TPH-OD) (Turbic	ORP (mV) -50.1 -50.2 -50.2 -50.3 -50.2 TYPE (Circle aport (Circle	#DIV/0! pplicable or write to the total (HCO3/CO3) (G	(ft)	nalysis below) WA WA WA	Observations OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 5.2 5.2 5.0 5.2 7TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOO	Cond. (uS/cm) 234.2 234.1 233.7 233.4 233.9 NALYSIS AI 0) (8020) (NH) (NWTPH- lectivity) (TD:	D.O. (mg/L) 1.33 1.34 1.35 1.34 LLOWED PENWTPH-G) (D) (NWTPH S) (TSS) (B4) (Total Kie	6.08 6.08 6.08 6.08 6.08 R BOTTLE NWTPH-Gx -Dx) (TPH-OD) (Turbidahl Nitroger	ORP (mV) -50.1 -50.2 -50.2 -50.3 -50.2 TYPE (Circle ap (BTEX) HCID) (8081) (dity) (Alkalinity)	#DIV/0! pplicable or write to the total (HCO3/CO3) (G	(ft)	nalysis below) WA WA WA	Observations OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 5.2 5.2 5.0 5.2 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOO (Total Cyanid	Cond. (uS/cm) 234.2 234.1 233.7 233.4 233.9 NALYSIS AI 0) (8020) (NH) (NWTPH- detivity) (TD: C) (Total PO- de) (WAD Cy	D.O. (mg/L) 1.33 1.34 1.35 1.34 LLOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free	6.08 6.08 6.08 6.08 6.08 R BOTTLE NWTPH-Gx -Dx) (TPH-OD) (Turbidahl Nitroger Cyanide)	ORP (mV) -50.1 -50.2 -50.2 -50.3 -50.2 TYPE (Circle ap (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3)	#DIV/0! pplicable or write to the total (HCO3/CO3) (G	non-standard an	(Fe II) nalysis below) WA WA O WA O O O O O O O O O O O O O	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 5.2 5.2 5.2 5.0 5.2 7TYPICAL A (8260) (8010 (8270) (PAF (PH) (Condu (COD) (Todal Cyanid (Total Metals)	Cond. (uS/cm) 234.2 234.1 233.7 233.4 233.9 NALYSIS AI 0) (8020) (N H) (NWTPH- activity) (TD: C) (Total PO- de) (WAD Cy) (As) (Sb) (D.O. (mg/L) 1.33 1.34 1.35 1.34 LLOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbidall Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -50.1 -50.2 -50.3 -50.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write in the interest of the control of the contro	non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 5.2 5.2 5.2 5.0 5.2 7TYPICAL A (8260) (8010 (8270) (PAF (PH) (Condu (COD) (Todal Cyanid (Total Metals)	Cond. (uS/cm) 234.2 234.1 233.7 233.4 233.9 NALYSIS AI 0) (8020) (N H) (NWTPH- lectivity) (TD: C) (Total PO- le) (WAD Cy de) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 1.33 1.34 1.35 1.34 LLOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbidall Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -50.1 -50.2 -50.3 -50.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write in the interest of the control of the contro	non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 5.2 5.2 5.2 5.0 5.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Too (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 234.2 234.1 233.7 233.4 233.9 NALYSIS AI 0) (8020) (N H) (NWTPH- lectivity) (TD: C) (Total PO- le) (WAD Cy de) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 1.33 1.34 1.35 1.34 1.35 1.34 LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbidall Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -50.1 -50.2 -50.3 -50.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write in the interest of the control of the contro	non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 5.2 5.2 5.2 5.0 5.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Too (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 234.2 234.1 233.7 233.4 233.9 NALYSIS AI (b) (8020) (NI) (NWTPH- (activity) (TD: (C) (Total PO- (de) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.33 1.34 1.35 1.34 1.35 1.34 LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbidall Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -50.1 -50.2 -50.3 -50.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write in the interest of the control of the contro	non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 5.2 5.2 5.2 5.0 5.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Too (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 234.2 234.1 233.7 233.4 233.9 NALYSIS AI (b) (8020) (NI) (NWTPH- (activity) (TD: (C) (Total PO- (de) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.33 1.34 1.35 1.34 1.35 1.34 LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbidall Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -50.1 -50.2 -50.3 -50.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write in the interest of the control of the contro	non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 5.2 5.2 5.2 5.0 5.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Too (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 234.2 234.1 233.7 233.4 233.9 NALYSIS AI (b) (8020) (NI) (NWTPH- (activity) (TD: (C) (Total PO- (de) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.33 1.34 1.35 1.34 1.35 1.34 LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbidall Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -50.1 -50.2 -50.3 -50.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write in the interest of the control of the contro	non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 5.2 5.2 5.2 5.0 5.2 7TYPICAL A (8260) (8010 (8270) (PAH (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 234.2 234.1 233.7 233.4 233.9 NALYSIS AI (b) (8020) (NI) (NWTPH- (activity) (TD: (C) (Total PO- (de) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.33 1.34 1.35 1.34 1.35 1.34 LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbidall Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -50.1 -50.2 -50.3 -50.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write in the interest of the control of the contro	non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 5.2 5.2 5.2 5.0 5.2 7TYPICAL A (8260) (8010 (8270) (PAH (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 234.2 234.1 233.7 233.4 233.9 NALYSIS AI (b) (8020) (NI) (NWTPH- (activity) (TD: (C) (Total PO- (de) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.33 1.34 1.35 1.34 1.35 1.34 LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbidall Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -50.1 -50.2 -50.3 -50.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write in the interest of the control of the contro	non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 5.2 5.2 5.2 5.0 5.2 7TYPICAL A (8260) (8010 (8270) (PAH (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 234.2 234.1 233.7 233.4 233.9 NALYSIS AI (b) (8020) (NI) (NWTPH- (activity) (TD: (C) (Total PO- (de) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.33 1.34 1.35 1.34 1.35 1.34 LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbidall Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -50.1 -50.2 -50.3 -50.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write in the interest of the control of the contro	non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ne:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 22 /2022@	1138		
Sample Nun	nber:	RGW143S-	220222		Weather:	SNOWING, 30s			
Landau Rep	resentative:	AHA/JAM/	SJL		•				
WATER LEV	/EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES))	Damaged (N	(O)	Describe:	FLUSH		
DTW Before		5.86	Time:		Flow through cel			GW Meter No.(s	SLOPE #2
	Date/Time:		1116	End Purge:	_	2/ 22 /2022 @	1137	Gallons Purged:	
Purge water d				Ě	Storage Tank	Ground		SITE TREATM	
ruige water c	iisposed to.	4	55-gal Drum		Storage Tank	El Gionna	Other	SHE IKEAIWI	ENI SISIEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C) Purge Goal	(uS/cm) ls: Stablizatio	(mg/L) n of Parame	ters for three	(mV) consecutive read	(NTU) dings within the fo	(ft) llowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1119	10.5	273.9	0.59	6.07	-1.0		5.84		
1122	8.7	273.5	0.68	6.20	-13.4		5.85		
	• •		-						
1125	7.7	272.4	0.76	6.25	-29.3		5.85		
1128	7.5	272.0	0.83	6.26	-35.2				
1131	7.1	270.8	0.86	6.25	-39.8				
1134	7.0	270.1	0.86	6.24	-41.7				
1136	7.2	270.3	0.88	6.23	-43.6				
SAMPLE CO	LLECTION D	DATA							
Sample Colle			Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Stee	el 🗖	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Was		Tap Rinse	DI Water	Dedicated			
(By Numerica	_	_	""	rap remse	□ Di Water	Dedicated			
	· ·	Other	sheen etc.):	PALE VELI	OW NO ODOR N	NO SHEEN FLOAT	ING PARTICU	LATES MOSTLY	CLEAR
	· ·	₩.	, sheen, etc.)	PALE YELL	OW NO ODOR 1	NO SHEEN FLOAT	ING PARTICU	LATES MOSTLY	CLEAR
	· ·	₩.	, sheen, etc.):	PALE YELL	OW NO ODOR 1	NO SHEEN FLOAT Turbidity	TING PARTICU DTW	LATES MOSTLY Ferrous iron	Comments/
Sample Descr	ription (color,	turbidity, odor	·-						
Sample Descr	ription (color,	turbidity, odor	D.O.		ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2	Temp (°F/°C) 7.2	Cond. (uS/cm) 270.3	D.O. (mg/L) 0.90	pH 6.23 6.23	ORP (mV) -43.9 -44.2	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3	Temp (°F/°C) 7.2 7.2	Cond. (uS/cm) 270.3 270.3 270.5	D.O. (mg/L) 0.90 0.91	6.23 6.23 6.23	ORP (mV) -43.9 -44.2	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3 4	Temp (°F/°C) 7.2 7.2 7.2 7.2	Cond. (uS/cm) 270.3 270.3 270.5 270.8	D.O. (mg/L) 0.90 0.91 0.92	pH 6.23 6.23 6.23 6.23	ORP (mV) -43.9 -44.2 -44.7 -45.0	Turbidity (NTU)	DTW	Ferrous iron	Comments/
Replicate 1 2 3	Temp (°F/°C) 7.2 7.2	Cond. (uS/cm) 270.3 270.3 270.5	D.O. (mg/L) 0.90 0.91	6.23 6.23 6.23	ORP (mV) -43.9 -44.2	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 7.2 7.2 7.2 7.2 7.2	Cond. (uS/cm) 270.3 270.3 270.5 270.8	D.O. (mg/L) 0.90 0.91 0.92 0.91	6.23 6.23 6.23 6.23 6.23	ORP (mV) -43.9 -44.2 -44.7 -45.0 -44.5	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 7.2 7.2 7.2 7.2 7.2 TYPICAL A	Cond. (uS/cm) 270.3 270.3 270.5 270.8	D.O. (mg/L) 0.90 0.91 0.92 0.91 LOWED PE	6.23 6.23 6.23 6.23 6.23 6.23	ORP (mV) -43.9 -44.2 -44.7 -45.0 -44.5 TYPE (Circle ap	Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 7.2 7.2 7.2 7.2 7.2 7.2 7.2 (8260) (8010 (8270) (PAF	Cond. (uS/cm) 270.3 270.3 270.5 270.8 270.5 NALYSIS AL 0) (8020) (NI) (NWTPH-I	D.O. (mg/L) 0.90 0.91 0.92 0.91 LOWED PERMITPH-G) (D) (NWTPH	6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE NWTPH-Gx) (-Dx) (TPH-	ORP (mV) -43.9 -44.2 -44.7 -45.0 -44.5 TYPE (Circle aport (BTEX)) HCID) (8081) (#DIV/0!	DTW (ft)	Ferrous iron (Fe II) nalysis below) WA WA WA	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 5	7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	Cond. (uS/cm) 270.3 270.3 270.5 270.8 270.5 NALYSIS AL 0) (8020) (N I) (NWTPH-Inctivity) (TDS	D.O. (mg/L) 0.90 0.91 0.92 0.91 LOWED PERIMTPH-G) (NWTPH-G) (TSS) (TSS) (E	6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE (NWTPH-Gx) (-Dx) (TPH-IOD) (Turbio	ORP (mV) -43.9 -44.2 -44.7 -45.0 -44.5 TYPE (Circle ap (BTEX) HCID) (8081) (dity) (Alkalinity)	#DIV/0! #DIV/0! pplicable or write r (8141) (Oil & Great) (HCO3/CO3) (O	DTW (ft)	Ferrous iron (Fe II) nalysis below) WA WA WA	Comments/ Observations OR
Replicate 1 2 3 4 Average:	7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	Cond. (uS/cm) 270.3 270.3 270.5 270.8 270.5 NALYSIS AL (2) (8020) (N (3) (NWTPH-I	D.O. (mg/L) 0.90 0.91 0.92 0.91 LOWED PERMYPH-G) (D) (NWTPH-GS) (TSS) (ES) (Total Kie	6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE (NWTPH-Gx) I-Dx) (TPH-BOD) (Turbio dahl Nitroger	ORP (mV) -43.9 -44.2 -44.7 -45.0 -44.5 TYPE (Circle aport (BTEX)) HCID) (8081) (#DIV/0! #DIV/0! pplicable or write r (8141) (Oil & Great) (HCO3/CO3) (O	DTW (ft)	Ferrous iron (Fe II) nalysis below) WA WA WA	Comments/ Observations OR
Replicate 1 2 3 4 Average: QUANTITY 5	7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	Cond. (uS/cm) 270.3 270.3 270.5 270.8 270.5 NALYSIS AL (2) (8020) (N (3) (NWTPH-Interivity) (TDS) (C) (Total PO4 (e) (WAD Cy.)	D.O. (mg/L) 0.90 0.91 0.92 0.91 LOWED PERWIPH-G) (MWTPH-G) (M	6.23 6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE (NWTPH-Gx) (I-Dx) (TPH-ISOD) (Turbio dahl Nitrogen Cyanide)	ORP (mV) -43.9 -44.2 -44.7 -45.0 -44.5 TYPE (Circle ap (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4)	#DIV/0! #DIV/0! pplicable or write results (HCO3/CO3) (CONO2)	DTW (ft) non-standard and sise) Cl) (SO4) (NC)	Ferrous iron (Fe II) nalysis below) WA WA WA O WA WA	Comments/ Observations OR □ OR □
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.2 7.2 7.2 7.2 7.2 7.2 7.2 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 270.3 270.5 270.5 270.5 NALYSIS AL (I) (8020) (NI) (NWTPH-Interivity) (TDS (C) (Total PO4 (e) (WAD Cyc.) (As) (Sb) (I	D.O. (mg/L) 0.90 0.91 0.91 0.92 0.91 LLOWED PE WTPH-G) (D) (NWTPH-G) (C) (Total Kiesanide) (Free Ba) (Be) (Ca	6.23 6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE (NWTPH-GX) (I-DX) (TPH-IOD) (Turbio dahl Nitrogen Cyanide) (1) (Cd) (Co)	ORP (mV) -43.9 -44.2 -44.7 -45.0 -44.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write r (HCO3/CO3) (C NO2) (Pb) (Mg) (Mn) (1	DTW (ft) non-standard and and and and and and and and and an	Ferrous iron (Fe II) nalysis below) WA WA O NO2) (F)	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.2 7.2 7.2 7.2 7.2 7.2 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 270.3 270.5 270.5 270.5 NALYSIS AL (uS/cm) 270.3 270.5 (uS/cm) 270.3 270.3 270.5 (uS/cm) 270.3 270.3 270.5 (uS/cm) 270.3 270.5 (uS/cm) 270.3 270.5 (uS/cm) 270.5 (uS/cm	D.O. (mg/L) 0.90 0.91 0.91 0.92 0.91 LLOWED PE WTPH-G) (D) (NWTPH-G) (C) (Total Kiesanide) (Free Ba) (Be) (Ca	6.23 6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE (NWTPH-GX) (I-DX) (TPH-IOD) (Turbio dahl Nitrogen Cyanide) (1) (Cd) (Co)	ORP (mV) -43.9 -44.2 -44.7 -45.0 -44.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write r (HCO3/CO3) (C NO2) (Pb) (Mg) (Mn) (1	DTW (ft) non-standard and and and and and and and and and an	Ferrous iron (Fe II) nalysis below) WA WA O NO2) (F)	Comments/ Observations OR □ OR □
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.2 7.2 7.2 7.2 7.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 270.3 270.5 270.5 270.5 NALYSIS AL (uS/cm) 270.3 270.5 (uS/cm) 270.3 270.3 270.5 (uS/cm) 270.3 270.3 270.5 (uS/cm) 270.3 270.5 (uS/cm) 270.3 270.5 (uS/cm) 270.5 (uS/cm	D.O. (mg/L) 0.90 0.91 0.92 0.91 LOWED PERMYPH-G) (CD) (NWTPH-G) (TSS) (ED) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.23 6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE (NWTPH-GX) (I-DX) (TPH-IOD) (Turbio dahl Nitrogen Cyanide) (1) (Cd) (Co)	ORP (mV) -43.9 -44.2 -44.7 -45.0 -44.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write r (HCO3/CO3) (C NO2) (Pb) (Mg) (Mn) (1	DTW (ft) non-standard and and and and and and and and and an	Ferrous iron (Fe II) nalysis below) WA WA O O O O O O O O O O O O O O O O O O O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.2 7.2 7.2 7.2 7.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 270.3 270.3 270.5 270.8 270.5 NALYSIS AL (NWTPH-Inctivity) (TDS (C) (Total PO4 e) (WAD Cyst () (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.90 0.91 0.92 0.91 LOWED PERMYPH-G) (CD) (NWTPH-G) (TSS) (ED) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.23 6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE (NWTPH-GX) (I-DX) (TPH-IOD) (Turbio dahl Nitrogen Cyanide) (1) (Cd) (Co)	ORP (mV) -43.9 -44.2 -44.7 -45.0 -44.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write r (HCO3/CO3) (C NO2) (Pb) (Mg) (Mn) (1	DTW (ft) non-standard and and and and and and and and and an	Ferrous iron (Fe II) nalysis below) WA WA O O O O O O O O O O O O O O O O O O O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.2 7.2 7.2 7.2 7.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 270.3 270.3 270.5 270.8 270.5 NALYSIS AL (NWTPH-Inctivity) (TDS (C) (Total PO4 e) (WAD Cyst () (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.90 0.91 0.92 0.91 LOWED PERMITPH-G) (CD) (NWTPH-G) (TSS) (ED) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.23 6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE (NWTPH-GX) (I-DX) (TPH-IOD) (Turbio dahl Nitrogen Cyanide) (1) (Cd) (Co)	ORP (mV) -43.9 -44.2 -44.7 -45.0 -44.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write r (HCO3/CO3) (C NO2) (Pb) (Mg) (Mn) (1	DTW (ft) non-standard and and and and and and and and and an	Ferrous iron (Fe II) nalysis below) WA WA O O O O O O O O O O O O O O O O O O O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.2 7.2 7.2 7.2 7.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 270.3 270.3 270.5 270.8 270.5 NALYSIS AL (NWTPH-Inctivity) (TDS (C) (Total PO4 e) (WAD Cyst () (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.90 0.91 0.92 0.91 LOWED PERMITPH-G) (CD) (NWTPH-G) (TSS) (ED) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.23 6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE (NWTPH-GX) (I-DX) (TPH-IOD) (Turbio dahl Nitrogen Cyanide) (1) (Cd) (Co)	ORP (mV) -43.9 -44.2 -44.7 -45.0 -44.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write r (HCO3/CO3) (C NO2) (Pb) (Mg) (Mn) (1	DTW (ft) non-standard and and and and and and and and and an	Ferrous iron (Fe II) nalysis below) WA WA O O O O O O O O O O O O O O O O O O O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.2 7.2 7.2 7.2 7.2 7.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 270.3 270.3 270.5 270.8 270.5 NALYSIS AL (NWTPH-Inctivity) (TDS (C) (Total PO4 e) (WAD Cyst () (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.90 0.91 0.92 0.91 LOWED PERMITPH-G) (CD) (NWTPH-G) (TSS) (ED) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.23 6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE (NWTPH-GX) (I-DX) (TPH-IOD) (Turbio dahl Nitrogen Cyanide) (1) (Cd) (Co)	ORP (mV) -43.9 -44.2 -44.7 -45.0 -44.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write r (HCO3/CO3) (C NO2) (Pb) (Mg) (Mn) (1	DTW (ft) non-standard and and and and and and and and and an	Ferrous iron (Fe II) nalysis below) WA WA O O O O O O O O O O O O O O O O O O O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.2 7.2 7.2 7.2 7.2 7.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 270.3 270.3 270.5 270.8 270.5 NALYSIS AL (NWTPH-Inctivity) (TDS (C) (Total PO4 e) (WAD Cyst () (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.90 0.91 0.92 0.91 LOWED PERMITPH-G) (CD) (NWTPH-G) (TSS) (ED) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.23 6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE (NWTPH-GX) (I-DX) (TPH-IOD) (Turbio dahl Nitrogen Cyanide) (1) (Cd) (Co)	ORP (mV) -43.9 -44.2 -44.7 -45.0 -44.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write r (HCO3/CO3) (C NO2) (Pb) (Mg) (Mn) (1	DTW (ft) non-standard and and and and and and and and and an	Ferrous iron (Fe II) nalysis below) WA WA O O O O O O O O O O O O O O O O O O O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.2 7.2 7.2 7.2 7.2 7.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 270.3 270.3 270.5 270.8 270.5 NALYSIS AL (NWTPH-Inctivity) (TDS (C) (Total PO4 e) (WAD Cyst () (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.90 0.91 0.92 0.91 LOWED PERMITPH-G) (CD) (NWTPH-G) (TSS) (ED) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.23 6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE (NWTPH-GX) (I-DX) (TPH-IOD) (Turbio dahl Nitrogen Cyanide) (1) (Cd) (Co)	ORP (mV) -43.9 -44.2 -44.7 -45.0 -44.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write r (HCO3/CO3) (C NO2) (Pb) (Mg) (Mn) (1	DTW (ft) non-standard and and and and and and and and and an	Ferrous iron (Fe II) nalysis below) WA WA O O O O O O O O O O O O O O O O O O O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/22 /2022@	1011		
Sample Nun	nber:	RGW147S-	220222		Weather:	SNOWING 30'S			
Landau Rep	resentative:	AHA			-				
WATER LEV	'EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES)	Damaged (N	O)	Describe:	FUSHMOUNT		
DTW Before		4.85	Time:		Flow through cel			GW Meter No.(s	s HFRON 2
	Date/Time:			End Purge:	_	2/ 22 /2022 @	959	Gallons Purged:	0.25
Purge water d			55-gal Drum	_	Storage Tank	Ground		SITE TREATM	
i uige water d	•	_				_			
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	. ,	`		ters for three	. ,	lings within the fo	. ,	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
950	9.2	95.8	1.34	6.53	86.4		4.85		
953	8.9	90.9	1.28	6.41	83.5		4.85		
956	8.1	86.9	1.31	6.36	82.8		4.85		
,,,,									
SAMPLE CO	LLECTION D	ATA							
Sample Colle	cted With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other							
Sample Descr	ription (color,	turbidity, odor	, sheen, etc.):	BROWN, M	ED-HIGH TUIRE	, NO ODOR, NO S	SHEEN		
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1	` ,	` ′		(26	` /	(1110)	(11)	(FC II)	Observations
1	7.9	85.1	1.28	6.36	82.7				
2	7.6	84.6	1.26	6.36	82.7				
3	7.1	84.2	1.26	6.35	82.7				
4	6.9	83.2	1.26	6.35	82.7				
Average:	7.4	84.3	1.27	6.36	82.7	#DIV/0!			
OUANTITY	TVDICALA	NALVEIC AL	I OWED DE	D DOTTLE	TVDE (Cirolo or	plicable or write i	on standard or	alveis balaw)	
3		0) (8020) (N			` *	plicable of write i	ion-stanuaru ai	WA	OR 🗆
3						(8141) (Oil & Gr	rease)	WA 🗆	OR \square
		/ (
	(pH) (Condu	ctivity) (TDS	S) (TSS) (E	OD) (IUIUI		(HCO3/CO3) (C	JI) (DOT) (ITO		
1	u , ,	• / (, , , ,	/ \	i) (NH3) (NO3/	, , ,	21) (504) (110	5) (1.02) (1)	
1	(COD) (TOO	• / (4) (Total Kie	dahl Nitroger		, , ,	51) (504) (110	5) (1102) (1)	
1	(COD) (TOO (Total Cyanid	e) (WAD Cy	4) (Total Kie vanide) (Free	dahl Nitroger Cyanide)	i) (NH3) (NO3/	, , ,			g) (K) (Na)
1	(COD) (TOO (Total Cyanid (Total Metals)	e) (Sb) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	4) (Total Kie vanide) (Free Ba) (Be) (Ca	edahl Nitroger Cyanide) a) (Cd) (Co)	(Cr) (Cu) (Fe)	NO2) (Pb) (Mg) (Mn) (1	Ni) (Ag) (Se) (Tl) (V) (Zn) (H	
1	(COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	e) (Total PO4 e) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	(Yanide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	edahl Nitroger Cyanide) a) (Cd) (Co)	(Cr) (Cu) (Fe)	NO2) (Pb) (Mg) (Mn) (1	Ni) (Ag) (Se) (Tl) (V) (Zn) (H	
1	(COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	(C) (Total PO- de) (WAD Cy de) (As) (Sb) (detals) (As) (Sb	(Yanide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	edahl Nitroger Cyanide) a) (Cd) (Co)	(Cr) (Cu) (Fe)	NO2) (Pb) (Mg) (Mn) (1	Ni) (Ag) (Se) (Tl) (V) (Zn) (H	
1	(COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	e) (Total PO4 e) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	(Yanide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	edahl Nitroger Cyanide) a) (Cd) (Co)	(Cr) (Cu) (Fe)	NO2) (Pb) (Mg) (Mn) (1	Ni) (Ag) (Se) (Tl) (V) (Zn) (H	
1	(COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	e) (Total PO4 e) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	(Yanide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	edahl Nitroger Cyanide) a) (Cd) (Co)	(Cr) (Cu) (Fe)	NO2) (Pb) (Mg) (Mn) (1	Ni) (Ag) (Se) (Tl) (V) (Zn) (H	
1	(COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	e) (Total PO4 e) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	(Yanide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	edahl Nitroger Cyanide) a) (Cd) (Co)	(Cr) (Cu) (Fe)	NO2) (Pb) (Mg) (Mn) (1	Ni) (Ag) (Se) (Tl) (V) (Zn) (H	g) (K) (Na) Na) (Hardness) (Silica
1 Duplicate Sar	(COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	e) (Total PO4 e) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	(Yanide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	edahl Nitroger Cyanide) a) (Cd) (Co)	(Cr) (Cu) (Fe)	NO2) (Pb) (Mg) (Mn) (1	Ni) (Ag) (Se) (Tl) (V) (Zn) (H	
	(COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	e) (Total PO4 e) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	(Yanide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	edahl Nitroger Cyanide) a) (Cd) (Co)	(Cr) (Cu) (Fe)	NO2) (Pb) (Mg) (Mn) (1	Ni) (Ag) (Se) (Tl) (V) (Zn) (H	



Project Nam	ie:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	_
Event:		Feb. 2022			Date/Time:	2/ 22 /2022@	1327		
Sample Nun	nber:	RGW150S-	220222		Weather:	CLOUDY 30'S			
Landau Rep	resentative:	AHA			-				
WATER LEV	/EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES)	Damaged (N	O)	Describe:	FLUSHMOUN	Т	
DTW Before		5.24	Time:		Flow through cel		TEODIE TO OT	GW Meter No.(LEDON 2
	Date/Time:				_	2/ 22 /2022 @	1212	Gallons Purged:	0.25
Purge water d		2/ 22/2022 (0	55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	•
i uige water d	nsposed to.	-	55-gai Dium		Storage Talik	_	Other	SITE TREATM	ENT STSTEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O.	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time			(mg/L) on of Parame	ters for three	. ,	lings within the fo	. ,	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/ - 10%	< 0.3 ft	through cell	
1305	9.9	306.9	0.61	6.66	93.5		5.25		
1308	9.2	315.1	0.60	6.65	87.4		5.25		
1311	9.00	318.2	0.71	6.65	84.6		5.25		
1311	7.00	310.2	0.71	0.05	04.0		3.23		
SAMPLE CO	LLECTION D	ATA					<u> </u>		
Sample Colle	cted With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Was	sh	Tap Rinse	DI Water	Dedicated			
(By Numerica	ıl Order)	Other	_			_			
Sample Descr	ription (color,	turbidity, odor	, sheen, etc.):	NO COLOR	, LOW TURB, NO	O ODOR, NO SHE	EN		
Replicate	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Ferrous iron	Comments/
	(°F/°C)	(uS/cm)	(mg/L)		(mV)	(NTU)	(ft)	(Fe II)	Observations
1	9.0	319.2	0.72	6.65	82.8				
2	8.9	318.8	0.74	6.65	82.4				
3	8.9	319.1	0.73	6.65	81.9				
4	8.9	319.4	0.72	6.66	81.5				
Average:	8.9	319.1	0.73	6.65	82.2	#DIV/0!			
_	·								
QUANTITY 3	(8260) (801)				` .	plicable or write	non-standard ai	WA	OR 🗌
3	[(0200) (001)), (00 20) (1	· · · · · · · · · · · · · · · · · · ·						OR 🗆
	(8270D) (P4		LD) (NWTE	/H_I)v) (TP)	LHCID) (8081)	(8141) (Oil & Gr	rease)	$W \Delta I I$	
	` ' `	AH) (NWTPI				(8141) (Oil & Gr (HCO3/CO3) (O		WA □ (NO2) (F)	OK L
1	(pH) (Condu	AH) (NWTPH activity) (TDS	S) (TSS) (E	BOD) (Turbio		(HCO3/CO3) (C			OK L
1	(pH) (Condu (COD) (TOO	AH) (NWTPH activity) (TDS	S) (TSS) (E 4) (Total Kie	OD) (Turbicated and Nitroger	dity) (Alkalinity)	(HCO3/CO3) (C			OK L
1	(pH) (Condu (COD) (TOO (Total Cyanid	AH) (NWTPH activity) (TDS C) (Total PO- e) (WAD Cy	S) (TSS) (E 4) (Total Kie vanide) (Free	BOD) (Turbio dahl Nitroger (Cyanide)	dity) (Alkalinity) (NH3) (NO3/	(HCO3/CO3) (C	(SO4) (NO	(NO2) (F)	
1	(pH) (Condu (COD) (TOO (Total Cyanid (Total Metals	AH) (NWTPH activity) (TD: C) (Total PO- e) (WAD Cy) (As) (Sb) (S) (TSS) (E 4) (Total Kie vanide) (Free Ba) (Be) (Ca	BOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	dity) (Alkalinity) (NH3) (NO3/	(HCO3/CO3) (CNO2) (Pb) (Mg) (Mn) (Cl) (SO4) (NO Ni) (Ag) (Se) (3) (NO2) (F) Tl) (V) (Zn) (H	g) (K) (Na)
1	(pH) (Condu (COD) (TOO (Total Cyanid (Total Metals	AH) (NWTPH activity) (TD: C) (Total PO- e) (WAD Cy) (As) (Sb) (etals) (As) (Sb	S) (TSS) (E 4) (Total Kie vanide) (Free Ba) (Be) (Ca	BOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	dity) (Alkalinity) (NH3) (NO3/	(HCO3/CO3) (CNO2) (Pb) (Mg) (Mn) (Cl) (SO4) (NO Ni) (Ag) (Se) (3) (NO2) (F) Tl) (V) (Zn) (H	g) (K) (Na)
1	(pH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	AH) (NWTPH activity) (TD: C) (Total PO- e) (WAD Cy) (As) (Sb) (etals) (As) (Sb	S) (TSS) (E 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ga	BOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	dity) (Alkalinity) (NH3) (NO3/	(HCO3/CO3) (CNO2) (Pb) (Mg) (Mn) (Cl) (SO4) (NO Ni) (Ag) (Se) (3) (NO2) (F) Tl) (V) (Zn) (H	g) (K) (Na)
1	(pH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	AH) (NWTPF activity) (TD: C) (Total PO- e) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	S) (TSS) (E 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ga	BOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	dity) (Alkalinity) (NH3) (NO3/	(HCO3/CO3) (CNO2) (Pb) (Mg) (Mn) (Cl) (SO4) (NO Ni) (Ag) (Se) (3) (NO2) (F) Tl) (V) (Zn) (H	g) (K) (Na)
1	(pH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	AH) (NWTPF activity) (TD: C) (Total PO- e) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	S) (TSS) (E 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ga	BOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	dity) (Alkalinity) (NH3) (NO3/	(HCO3/CO3) (CNO2) (Pb) (Mg) (Mn) (Cl) (SO4) (NO Ni) (Ag) (Se) (3) (NO2) (F) Tl) (V) (Zn) (H	g) (K) (Na)
1	(pH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	AH) (NWTPF activity) (TD: C) (Total PO- e) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	S) (TSS) (E 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ga	BOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	dity) (Alkalinity) (NH3) (NO3/	(HCO3/CO3) (CNO2) (Pb) (Mg) (Mn) (Cl) (SO4) (NO Ni) (Ag) (Se) ((3) (NO2) (F)	g) (K) (Na)
1 Duplicate Sar	(pH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	AH) (NWTPF activity) (TD: C) (Total PO- e) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	S) (TSS) (E 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ga	BOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	dity) (Alkalinity) (NH3) (NO3/	(HCO3/CO3) (CNO2) (Pb) (Mg) (Mn) (Cl) (SO4) (NO Ni) (Ag) (Se) ((3) (NO2) (F)	g) (K) (Na)
	(pH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	AH) (NWTPF activity) (TD: C) (Total PO- e) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	S) (TSS) (E 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ga	BOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	dity) (Alkalinity) (NH3) (NO3/	(HCO3/CO3) (CNO2) (Pb) (Mg) (Mn) (Cl) (SO4) (NO Ni) (Ag) (Se) ((3) (NO2) (F)	



Project Name	e:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 21 /2022@	1251		
Sample Num	nber:	RGW152S-	220221		Weather:	CLOUDY 40'S			
Landau Repr	resentative:	AHA							
WATER LEV	EL/WELL/PU	IRGE DATA							
Well Conditio	n:	Secure (YES)	Damaged (N	O)	Describe:	FLUSHMOUN	Т	
DTW Before l	Purging (ft)	8.24	Time:		Flow through ce	ll vol.		GW Meter No.(s	SLOPE 2
Begin Purge:		2/21 /2022 @		End Purge:	-	2/ 21 /2022 @	1250	Gallons Purged:	0.25
Purge water d			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATMI	
8	•		-		C	_	_		
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	` /	,	on of Parame		` '	dings within the fo	` '	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1230	12.8	165.6	0.16	6.33	101.8		8.22		
1233	10.2	205.3	0.51	6.28	94.6		8.22		
1236	10.0	185.8	0.53	6.29	91.1		8.22		
1239	9.4	170.6	0.57	6.27	89.6		8.23		
							6.23		
1242	9.1	159.8	0.57	6.25	89.7				
1245	8.9	153.9	0.59	6.22	91.1				
1248	9.1	149.6	0.58	6.21	90.8				
SAMPLE CO	LLECTION D	ATA							
Sample Collec	eted With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	1.0								
(By Trumerica	i Oraer)	Other							
. •	ŕ	-	, sheen, etc.):	MUGGY, M	ED-HIGH TURB	, NO ODOR, NO S	HEEN		_
Sample Descr	iption (color, t	turbidity, odor							
. •	iption (color, t	turbidity, odor	D.O.	MUGGY, M	ORP	Turbidity	DTW	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)			Ferrous iron (Fe II)	Comments/ Observations
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.22	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C) 9.1	Cond. (uS/cm) 149.1	D.O. (mg/L) 0.59	рН 6.22 6.22	ORP (mV) 90.3	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.22	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate 1 2	Temp (°F/°C) 9.1	Cond. (uS/cm) 149.1	D.O. (mg/L) 0.59	рН 6.22 6.22	ORP (mV) 90.3	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 9.1 9.3 9.3	Cond. (uS/cm) 149.1 148.5	D.O. (mg/L) 0.59 0.59	pH 6.22 6.22 6.21	ORP (mV) 90.3 90.3	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.3 9.3 9.3	Cond. (uS/cm) 149.1 148.5 148.4 148.2	D.O. (mg/L) 0.59 0.59 0.61 0.61	6.22 6.22 6.21 6.21 6.22	ORP (mV) 90.3 90.3 90.2 90.1 90.2	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.3 9.3 9.3 7.3	Cond. (uS/cm) 149.1 148.5 148.4 148.2	D.O. (mg/L) 0.59 0.61 0.61 0.60	6.22 6.22 6.21 6.21 6.21 6.22	ORP (mV) 90.3 90.3 90.2 90.1 90.2 TYPE (Circle a)	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.3 9.3 9.3 9.3 1 TYPICAL A	Cond. (uS/cm) 149.1 148.5 148.4 148.2 148.6 NALYSIS AI (8010) (8020	D.O. (mg/L) 0.59 0.59 0.61 0.60 0.60 CLOWED PE	6.22 6.22 6.21 6.21 6.21 6.22 CR BOTTLE G) (NWTPF	ORP (mV) 90.3 90.3 90.2 90.1 90.2 TYPE (Circle and H-Gx) (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.3 9.3 9.3 9.3 1 TYPICAL A (8260-SIM) (8270D) (PA	Cond. (uS/cm) 149.1 148.5 148.4 148.2 148.6 NALYSIS AI (8010) (8020)	D.O. (mg/L) 0.59 0.61 0.61 0.60 LOWED PE 0) (NWTPH-I-D) (NWTP	6.22 6.22 6.21 6.21 6.22 CR BOTTLE G) (NWTPF	ORP (mV) 90.3 90.3 90.2 90.1 90.2 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! oplicable or write	DTW (ft)	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.3 9.3 9.3 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 149.1 148.5 148.4 148.2 148.6 NALYSIS AI (8010) (8020) AH) (NWTPHetivity) (TDS)	D.O. (mg/L) 0.59 0.59 0.61 0.60 LOWED PE 0) (NWTPH-H-D) (NWTP	6.22 6.22 6.21 6.21 6.22 CR BOTTLE G) (NWTPF	ORP (mV) 90.3 90.3 90.2 90.1 90.2 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081)	#DIV/0! #DIV/0! pplicable or write to the second	DTW (ft)	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.1 9.3 9.3 9.3 9.3 9.3 (8260-SIM) (8270D) (PA (pH) (Conduction) (COD) (TOC	Cond. (uS/cm) 149.1 148.5 148.4 148.2 148.6 NALYSIS AI (8010) (8020 AH) (NWTPH lectivity) (TDS) C5310C) (Total) e) (WAD Cy	D.O. (mg/L) 0.59 0.59 0.61 0.61 0.60 LOWED PE D) (NWTPH-H-D)	6.22 6.22 6.21 6.21 6.22 CR BOTTLE G) (NWTPF H-Dx) (TPF HOD) (Turbic tal Kiedahl N Cyanide)	ORP (mV) 90.3 90.3 90.2 90.1 90.2 TYPE (Circle all-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write: (8141) (Oil & Gr.) (HCO3/CO3) (O.) (NO3/NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.1 9.3 9.3 9.3 9.3 9.3 (8260-SIM) (8270D) (PA (pH) (Conduction) (COD) (TOC	Cond. (uS/cm) 149.1 148.5 148.4 148.2 148.6 NALYSIS AI (8010) (8020 AH) (NWTPH lectivity) (TDS) C5310C) (Total) e) (WAD Cy	D.O. (mg/L) 0.59 0.59 0.61 0.61 0.60 LOWED PE D) (NWTPH-H-D)	6.22 6.22 6.21 6.21 6.22 CR BOTTLE G) (NWTPF H-Dx) (TPF HOD) (Turbic tal Kiedahl N Cyanide)	ORP (mV) 90.3 90.3 90.2 90.1 90.2 TYPE (Circle all-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write to the second	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.1 9.3 9.3 9.3 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M.	Cond. (uS/cm) 149.1 148.5 148.4 148.2 148.6 NALYSIS AI (8010) (8020) (AH) (NWTPHetivity) (TDS) (C5310C) (Toc) (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.59 0.61 0.61 0.60 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To anide) (Free Ba) (Be) (Ca	6.22 6.22 6.21 6.21 6.22 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) 90.3 90.3 90.2 90.1 90.2 TYPE (Circle and H-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Groth (MCO3/CO3) (Groth (MCO3/NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.1 9.3 9.3 9.3 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 149.1 148.5 148.4 148.2 148.6 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (To- (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb (g short list)	D.O. (mg/L) 0.59 0.61 0.61 0.60 LOWED PE 0) (NWTPH-I-D) (NWT	6.22 6.22 6.21 6.21 6.22 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) 90.3 90.3 90.2 90.1 90.2 TYPE (Circle and H-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Groth (MCO3/CO3) (Groth (MCO3/NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.1 9.3 9.3 9.3 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 149.1 148.5 148.4 148.2 148.6 NALYSIS AI (8010) (8020) (AH) (NWTPHetivity) (TDS) (C5310C) (Toc) (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.59 0.61 0.61 0.60 LOWED PE 0) (NWTPH-I-D) (NWT	6.22 6.22 6.21 6.21 6.22 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) 90.3 90.3 90.2 90.1 90.2 TYPE (Circle and H-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Groth (MCO3/CO3) (Groth (MCO3/NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.1 9.3 9.3 9.3 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 149.1 148.5 148.4 148.2 148.6 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (To- (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb (g short list)	D.O. (mg/L) 0.59 0.61 0.61 0.60 LOWED PE 0) (NWTPH-I-D) (NWT	6.22 6.22 6.21 6.21 6.22 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) 90.3 90.3 90.2 90.1 90.2 TYPE (Circle and H-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Groth (MCO3/CO3) (Groth (MCO3/NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.1 9.3 9.3 9.3 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 149.1 148.5 148.4 148.2 148.6 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (To- (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb (g short list)	D.O. (mg/L) 0.59 0.61 0.61 0.60 LOWED PE 0) (NWTPH-I-D) (NWT	6.22 6.22 6.21 6.21 6.22 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) 90.3 90.3 90.2 90.1 90.2 TYPE (Circle and H-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Groth (MCO3/CO3) (Groth (MCO3/NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.1 9.3 9.3 9.3 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 149.1 148.5 148.4 148.2 148.6 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (To- (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb (g short list)	D.O. (mg/L) 0.59 0.61 0.61 0.60 LOWED PE 0) (NWTPH-I-D) (NWT	6.22 6.22 6.21 6.21 6.22 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) 90.3 90.3 90.2 90.1 90.2 TYPE (Circle and H-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Groth (MCO3/CO3) (Groth (MCO3/NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.1 9.3 9.3 9.3 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 149.1 148.5 148.4 148.2 148.6 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (To- (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb (g short list)	D.O. (mg/L) 0.59 0.61 0.61 0.60 LOWED PE 0) (NWTPH-H-D) (NWT	6.22 6.22 6.21 6.21 6.22 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co) Ca) (Cd) (Co)	ORP (mV) 90.3 90.3 90.2 90.1 90.2 TYPE (Circle and H-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Groth (MCO3/CO3) (Groth (MCO3/NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.1 9.3 9.3 9.3 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 149.1 148.5 148.4 148.2 148.6 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TDS (25310C) (Too (e) (WAD Cy (for etals) (As) (Sb) (for etals) (As) (for etals)	D.O. (mg/L) 0.59 0.61 0.61 0.60 LOWED PE 0) (NWTPH-H-D) (NWT	6.22 6.22 6.21 6.21 6.22 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co) Ca) (Cd) (Co)	ORP (mV) 90.3 90.3 90.2 90.1 90.2 TYPE (Circle and H-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Groth (MCO3/CO3) (Groth (MCO3/NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ne:	Boeing Ren	ton		Project Number	er:	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 21 /2022@	1255		
Sample Nun	nber:	RGWDUP1	22022121		Weather:	CLOUDY 40'S			
Landau Rep	resentative:	AHA							
WATER LEV	/EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES)	Damaged (N	(O)	Describe:			
DTW Before	Purging (ft)		Time:		Flow through ce	ll vol.	-	GW Meter No.(s	s)
	Date/Time:	2/ /2022 @		End Purge:	-	2/ /2022 @		Gallons Purged:	<i>'</i>
Purge water d			55-gal Drum	Ě	Storage Tank	Ground	Other	SITE TREATMI	ENT SYSTEM
raige water c	•	—	•		-	_	_		
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	, ,	` /		ters for three	. ,	dings within the fo	` '	>/= 1 flow	Obsci vations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
	· ——	DUI	PLICA	ATE 1	O RGV	W152S	-		
	- ———								
-									
	<u>.</u> .								
	-								
	-						-		
SAMPLECO	LLECTION D	ATA					·		
Sample Colle			Bailer		Pump/Pump Type	2			
Made of:		Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	
	. =						U Ouici	Dedicated	
Decon Proced		Alconox Was	sh 📋	Tap Rinse	DI Water	Dedicated			
(By Numerica	<i>'</i>	Other							
	<i>'</i>	-	, sheen, etc.):	MUGGY, M	ED-HIGH TURE	3, NO ODOR, NO S	HEEN		
Sample Descr	ription (color, t	turbidity, odor						Ferrous iron	Comments/
	<i>'</i>	-	D.O. (mg/L)	MUGGY, M	ORP	B, NO ODOR, NO S Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descri Replicate	ription (color, t	turbidity, odor	D.O. (mg/L)	pН	ORP	Turbidity	DTW		
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.22	ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 9.2	Cond. (uS/cm) 148.1	D.O. (mg/L) 0.55 0.56	pH 6.22 6.22	ORP (mV) 89.5 89.8	Turbidity	DTW		
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.22	ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 9.2	Cond. (uS/cm) 148.1	D.O. (mg/L) 0.55 0.56	pH 6.22 6.22	ORP (mV) 89.5 89.8	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 9.2 9.2 9.2	Cond. (uS/cm) 148.1 147.8	D.O. (mg/L) 0.55 0.56	pH 6.22 6.22 6.22	ORP (mV) 89.5 89.8 90.1	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.2 9.2 9.2 9.2 9.2	Cond. (uS/cm) 148.1 147.8 147.7 147.8 147.9	D.O. (mg/L) 0.55 0.56 0.56 0.57	6.22 6.22 6.22 6.22 6.22	ORP (mV) 89.5 89.8 90.1 90.2 89.9	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.2 9.2 9.2 9.2 9.2 TYPICAL A	Cond. (uS/cm) 148.1 147.8 147.7 147.8 147.9	D.O. (mg/L) 0.55 0.56 0.56 0.57 0.56	6.22 6.22 6.22 6.22 6.22 6.22 6.22	ORP (mV) 89.5 89.8 90.1 90.2 89.9	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.2 9.2 9.2 9.2 9.2 1YPICAL A' (8260-SIM)	Cond. (uS/cm) 148.1 147.8 147.7 147.8 147.9 NALYSIS AI (8010) (8020	D.O. (mg/L) 0.55 0.56 0.56 0.57 0.56 LOWED PE	6.22 6.22 6.22 6.22 6.22 6.22 6.22 G. (NWTPE	ORP (mV) 89.5 89.8 90.1 90.2 89.9 TYPE (Circle a)	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.2 9.2 9.2 9.2 9.2 1TYPICAL A (8260-SIM) (8270D) (PA	Cond. (uS/cm) 148.1 147.8 147.7 147.8 147.9 NALYSIS AI (8010) (8020)	D.O. (mg/L) 0.55 0.56 0.57 0.56 LOWED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D)	6.22 6.22 6.22 6.22 6.22 6.22 6.22 G.R BOTTLE G) (NWTPF	ORP (mV) 89.5 89.8 90.1 90.2 89.9 TYPE (Circle a H-Gx) (BTEX) H-HCID) (8081)	#DIV/0!	DTW (ft)	nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.2 9.2 9.2 9.2 9.2 1TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 148.1 147.8 147.7 147.8 147.9 NALYSIS AI (8010) (8020) AH) (NWTPHetivity) (TDS)	D.O. (mg/L) 0.55 0.56 0.57 0.56 LOWED PE 0) (NWTPH-H-D) (NWTP	6.22 6.22 6.22 6.22 6.22 6.22 6.22 6.PH-Dx) (TPF-PH-Dx) (TPF-PH-Dx	ORP (mV) 89.5 89.8 90.1 90.2 89.9 TYPE (Circle a H-Gx) (BTEX) H-HCID) (8081)	#DIV/0! #DIV/0! pplicable or write to the second	DTW (ft)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.2 9.2 9.2 9.2 9.2 1YPICAL A' (8260-SIM) (8270D) (PA' (PH) (Conduction) (TOO	Cond. (uS/cm) 148.1 147.8 147.7 147.8 147.9 NALYSIS AI (8010) (8020) AH) (NWTPHetivity) (TDS)	D.O. (mg/L) 0.55 0.56 0.56 0.57 0.56 LOWED PE D) (NWTPH-H-D)	6.22 6.22 6.22 6.22 6.22 6.22 6.22 6.20 (NWTPF PH-Dx) (TPF BOD) (Turbio tal Kiedahl N	ORP (mV) 89.5 89.8 90.1 90.2 89.9 TYPE (Circle a al-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity	#DIV/0! #DIV/0! pplicable or write to the second	DTW (ft)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.2 9.2 9.2 9.2 9.2 1YPICAL A (8260-SIM) (8270D) (PA (PH) (Conduction) (TOC) (Total Cyanida.	Cond. (uS/cm) 148.1 147.8 147.7 147.8 147.9 NALYSIS AI (8010) (8020 AH) (NWTPH (1000) (TD) 1000 (CS310C) (To) 1000 (WAD Cy	D.O. (mg/L) 0.55 0.56 0.56 0.57 0.56 LOWED PE D) (NWTPH-H-D)	6.22 6.22 6.22 6.22 6.22 6.22 6.22 CR BOTTLE G) (NWTPF PH-Dx) (TPF BOD) (Turbic tal Kiedahl N Cyanide)	ORP (mV) 89.5 89.8 90.1 90.2 89.9 TYPE (Circle a) H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write to the second	DTW (ft) non-standard and are rease) Cl) (SO4) (NC	(Fe II) malysis below) WA WA WA NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.2 9.2 9.2 9.2 9.2 9.2 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 148.1 147.8 147.7 147.8 147.9 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (CS310C) (To ce) (WAD Cy) (As) (Sb) (D.O. (mg/L) 0.55 0.56 0.56 0.57 0.56 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towns) (Towns) (Tree Ba) (Be) (Caranide) (Free Ba) (Be) (Caranide) (Cara	6.22 6.22 6.22 6.22 6.22 6.22 CR BOTTLE G) (NWTPP PH-Dx) (TPF BOD) (Turbic ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 89.5 89.8 90.1 90.2 89.9 TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write in the interval of the in	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) Tl) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.2 9.2 9.2 9.2 9.2 9.2 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 148.1 147.8 147.7 147.8 147.9 NALYSIS AI (8010) (8020) (AH) (NWTPHetivity) (TDS) (C5310C) (Toole) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L) 0.55 0.56 0.56 0.57 0.56 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towns) (Towns) (Tree Ba) (Be) (Caranide) (Free Ba) (Be) (Caranide) (Cara	6.22 6.22 6.22 6.22 6.22 6.22 CR BOTTLE G) (NWTPP PH-Dx) (TPF BOD) (Turbic ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 89.5 89.8 90.1 90.2 89.9 TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write in the interval of the in	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) Tl) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.2 9.2 9.2 9.2 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 148.1 147.8 147.7 147.8 147.9 NALYSIS AI (8010) (8020) (AH) (NWTPHetivity) (TDS) (C5310C) (Toole) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L) 0.55 0.56 0.56 0.57 0.56 LOWED PE D) (NWTPH-I-D)	6.22 6.22 6.22 6.22 6.22 6.22 CR BOTTLE G) (NWTPP PH-Dx) (TPF BOD) (Turbic ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 89.5 89.8 90.1 90.2 89.9 TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write in the interval of the in	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) Tl) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.2 9.2 9.2 9.2 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 148.1 147.8 147.7 147.8 147.9 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TDS (25310C) (Tos (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (for each of the conditions)	D.O. (mg/L) 0.55 0.56 0.56 0.57 0.56 LOWED PE D) (NWTPH-I-D)	6.22 6.22 6.22 6.22 6.22 6.22 CR BOTTLE G) (NWTPP PH-Dx) (TPF BOD) (Turbic ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 89.5 89.8 90.1 90.2 89.9 TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write in the interval of the in	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA ON O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.2 9.2 9.2 9.2 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 148.1 147.8 147.7 147.8 147.9 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (Tos (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (for etals) (As) (Sb)	D.O. (mg/L) 0.55 0.56 0.56 0.57 0.56 LOWED PE D) (NWTPH-I-D)	6.22 6.22 6.22 6.22 6.22 6.22 CR BOTTLE G) (NWTPP PH-Dx) (TPF BOD) (Turbic ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 89.5 89.8 90.1 90.2 89.9 TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write in the interval of the in	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA ON O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.2 9.2 9.2 9.2 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 148.1 147.8 147.7 147.8 147.9 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (Tos (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (for etals) (As) (Sb)	D.O. (mg/L) 0.55 0.56 0.56 0.57 0.56 LOWED PE D) (NWTPH-I-D)	6.22 6.22 6.22 6.22 6.22 6.22 CR BOTTLE G) (NWTPP PH-Dx) (TPF BOD) (Turbic ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 89.5 89.8 90.1 90.2 89.9 TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write in the interval of the in	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA ON O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.2 9.2 9.2 9.2 9.2 YYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 148.1 147.8 147.7 147.8 147.9 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TDS (25310C) (Toc (e) (WAD Cy (for e) (WAD Cy (for e) (Sb) (for etals) (As) (Sb) (setals) (As) (setals) (As	D.O. (mg/L) 0.55 0.56 0.56 0.57 0.56 LOWED PE O) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Toward) (Free Ba) (Be) (Capped) (Ba) (Be) (Capped)	6.22 6.22 6.22 6.22 6.22 6.22 CR BOTTLE G) (NWTPP PH-Dx) (TPF BOD) (Turbic ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 89.5 89.8 90.1 90.2 89.9 TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write in the interval of the in	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA ON O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3 1 Duplicate Sar	Temp (°F/°C) 9.2 9.2 9.2 9.2 9.2 YYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 148.1 147.8 147.7 147.8 147.9 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (Tos (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (for etals) (As) (Sb)	D.O. (mg/L) 0.55 0.56 0.56 0.57 0.56 LOWED PE O) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Toward) (Free Ba) (Be) (Capped) (Ba) (Be) (Capped)	6.22 6.22 6.22 6.22 6.22 6.22 CR BOTTLE G) (NWTPP PH-Dx) (TPF BOD) (Turbic ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 89.5 89.8 90.1 90.2 89.9 TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write in the interval of the in	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA ON O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.2 9.2 9.2 9.2 9.2 YYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 148.1 147.8 147.7 147.8 147.9 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TDS (25310C) (Toc (e) (WAD Cy (for e) (WAD Cy (for e) (Sb) (for etals) (As) (Sb) (setals) (As) (setals) (As	D.O. (mg/L) 0.55 0.56 0.56 0.57 0.56 LOWED PE O) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Toward) (Free Ba) (Be) (Capped) (Ba) (Be) (Capped)	6.22 6.22 6.22 6.22 6.22 6.22 CR BOTTLE G) (NWTPP PH-Dx) (TPF BOD) (Turbic ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 89.5 89.8 90.1 90.2 89.9 TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write in the interval of the in	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA ON O	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ne:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 21 /2022@	1021		
Sample Nun	nber:	RGW153S-	220221		Weather:	CLOUDY 40'S			
Landau Rep	resentative:	AHA			•				
WATER LEV	/EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES))	Damaged (N	O)	Describe:	FLUSHMOUN	T	
DTW Before		8.52	Time:		Flow through cel		-	GW Meter No.(s SLOPE 2
	0 0 0	2/21/2022 @		End Purge:	_	2/ 21 /2022 @	1020	Gallons Purged:	0.25
Purge water d			55-gal Drum		Storage Tank	Ground		SITE TREATM	•
r arge water a	•	_	-			_	_		
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	. ,			ters for three	. ,	dings within the fo		>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1000	11.6	201.9	3.49	6.67	89.7		8.57		
1003	11.1	205.2	2.44	6.59	85.4		8.57		
1006	10.0	207.8	2.05	6.57	81.7		8.57		
1009		206.9	1.68	6.58	79.8		8.58		
							6.36		
1012	9.3	205.9	1.12	6.59	77.7		· 		
1015	9.3	205.1	0.88	6.59	74.1				
1018	9.1	204.5	0.87	6.59	72.9				
SAMPLE CO	LLECTION D	OATA							
Sample Colle	cted With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Stee	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	ıl Order)	Other							
	0								
Sample Descr	ŕ	-	, sheen, etc.):	LIGHT BRO	WN, LOW-MED	TURB, NO ODOF	R, NO SHEEN		
	ription (color,	turbidity, odor						F	Comment
Sample Descri Replicate	ŕ	-	D.O.	LIGHT BRC	OWN, LOW-MED ORP (mV)	Turbidity	DTW	Ferrous iron (Fe II)	Comments/ Observations
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)				
Replicate 1	Temp (°F/°C)	Cond. (uS/cm) 204.3	D.O. (mg/L)	рН 6.59	ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 9.1	Cond. (uS/cm) 204.3	D.O. (mg/L) 0.86	pH 6.59 6.59	ORP (mV) 72.7	Turbidity	DTW		
Replicate 1	Temp (°F/°C) 9.1 9.1	Cond. (uS/cm) 204.3	D.O. (mg/L)	рН 6.59	ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 9.1	Cond. (uS/cm) 204.3	D.O. (mg/L) 0.86	pH 6.59 6.59	ORP (mV) 72.7	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 9.1 9.1	Cond. (uS/cm) 204.3 204.1 203.8	D.O. (mg/L) 0.86 0.85	pH 6.59 6.59 6.59	ORP (mV) 72.7 72.7 72.5	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.1 9.0 9.1	Cond. (uS/cm) 204.3 204.1 203.8 203.7 204.0	D.O. (mg/L) 0.86 0.85 0.85 0.85	pH 6.59 6.59 6.59 6.59 6.59	ORP (mV) 72.7 72.7 72.5 72.3 72.6	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.1 9.0 9.1 TYPICAL A	Cond. (uS/cm) 204.3 204.1 203.8 203.7 204.0	D.O. (mg/L) 0.86 0.85 0.85 0.85	pH 6.59 6.59 6.59 6.59 6.59 6.59	ORP (mV) 72.7 72.7 72.5 72.3 72.6 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.1 9.0 9.1 TYPICAL A (8260-SIM)	Cond. (uS/cm) 204.3 204.1 203.8 203.7 204.0 NALYSIS AL (8010) (8020	D.O. (mg/L) 0.86 0.85 0.85 0.85 0.85 0.85 0.85	6.59 6.59 6.59 6.59 6.59 6.59 6.79 6.79 6.79 6.79 6.79 6.79 6.79	ORP (mV) 72.7 72.7 72.5 72.3 72.6 TYPE (Circle and H-Gx) (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.1 9.0 9.1 TYPICAL A (8260-SIM) (8270D) (PA	Cond. (uS/cm) 204.3 204.1 203.8 203.7 204.0 NALYSIS AL (8010) (8020 AH) (NWTPH	D.O. (mg/L) 0.86 0.85 0.85 0.85 0.85 LOWED PE 0) (NWTPH-I-D) (NWTPH-I-D) (NWTP	6.59 6.59 6.59 6.59 6.59 CR BOTTLE G) (NWTPF	ORP (mV) 72.7 72.7 72.5 72.3 72.6 TYPE (Circle ap II-Gx) (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! oplicable or write	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	### Temp (°F/°C) 9.1 9.1 9.0 9.1 TYPICAL A (8260-SIM) (8270D) (PA (PH) (Conduction) (TOO	Cond. (uS/cm) 204.3 204.1 203.8 203.7 204.0 NALYSIS AL (8010) (8020 AH) (NWTPH activity) (TDS) C5310C) (Tot	D.O. (mg/L) 0.86 0.85 0.85 0.85 0.85 LOWED PE D) (NWTPH-I-D)	6.59 6.59 6.59 6.59 6.59 6.70 CR BOTTLE G) (NWTPF PH-Dx) (TPF BOD) (Turbic ttal Kiedahl N	ORP (mV) 72.7 72.7 72.5 72.3 72.6 TYPE (Circle ap II-Gx) (BTEX) I-HCID) (8081)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	### Temp (°F/°C)	Cond. (uS/cm) 204.3 204.1 203.8 203.7 204.0 NALYSIS AL (8010) (8020 AH) (NWTPE) detivity) (TDS) C5310C) (Totale) (WAD Cy	D.O. (mg/L) 0.86 0.85 0.85 0.85 0.85 LOWED PE D) (NWTPH-I-D)	6.59 6.59 6.59 6.59 6.59 CR BOTTLE G) (NWTPF PH-Dx) (TPF BOD) (Turbic tal Kiedahl N Cyanide)	ORP (mV) 72.7 72.7 72.5 72.3 72.6 TYPE (Circle application of the company o	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (0 (NO3/NO2)	DTW (ft) non-standard and rease) CI) (SO4) (NO	malysis below) WA WA WA WO	Observations OR □ OR □
Replicate 1 2 3 4 Average: QUANTITY 3	ription (color, Temp (°F/°C) 9.1 9.1 9.1 9.0 9.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 204.3 204.1 203.8 203.7 204.0 NALYSIS AL (8010) (8020 AH) (NWTPH letivity) (TDS (25310C) (Total let) (WAD Cyt) (As) (Sb) (1000)	D.O. (mg/L) 0.86 0.85 0.85 0.85 0.85 LOWED PE 0) (NWTPH-I-D)	6.59 6.59 6.59 6.59 6.59 6.70 6.59 6.59 CR BOTTLE GO (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) (a) (Cd) (Co)	ORP (mV) 72.7 72.7 72.5 72.3 72.6 TYPE (Circle apples (Circl	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.1 9.1 9.1 9.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 204.3 204.1 203.8 203.7 204.0 NALYSIS AL (8010) (8020 AH) (NWTPH lectivity) (TDS C5310C) (Total (le) (WAD Cy (le) (As) (Sb) (Setals) (As) (Sb) (Setals) (As) (Sb)	D.O. (mg/L) 0.86 0.85 0.85 0.85 0.85 LOWED PE 0) (NWTPH-I-D)	6.59 6.59 6.59 6.59 6.59 6.70 6.59 6.59 CR BOTTLE GO (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) (a) (Cd) (Co)	ORP (mV) 72.7 72.7 72.5 72.3 72.6 TYPE (Circle apples (Circl	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.1 9.1 9.1 9.0 9.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 204.3 204.1 203.8 203.7 204.0 NALYSIS AL (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (Total) (le) (WAD Cy) () (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.86 0.85 0.85 0.85 0.85 0.85 (MWTPH-I-D) (NWTPH-I-D) (NWTP	6.59 6.59 6.59 6.59 6.59 6.70 6.59 6.59 CR BOTTLE GO (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) (a) (Cd) (Co)	ORP (mV) 72.7 72.7 72.5 72.3 72.6 TYPE (Circle apples (Circl	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.1 9.1 9.1 9.0 9.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 204.3 204.1 203.8 203.7 204.0 NALYSIS AL (8010) (8020 AH) (NWTPH lectivity) (TDS C5310C) (Total (le) (WAD Cy (le) (As) (Sb) (Setals) (As) (Sb) (Setals) (As) (Sb)	D.O. (mg/L) 0.86 0.85 0.85 0.85 0.85 0.85 (MWTPH-I-D) (NWTPH-I-D) (NWTP	6.59 6.59 6.59 6.59 6.59 6.70 6.59 6.59 CR BOTTLE GO (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) (a) (Cd) (Co)	ORP (mV) 72.7 72.7 72.5 72.3 72.6 TYPE (Circle apples (Circl	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.1 9.1 9.1 9.0 9.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 204.3 204.1 203.8 203.7 204.0 NALYSIS AL (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (Total) (le) (WAD Cy) () (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.86 0.85 0.85 0.85 0.85 0.85 (MWTPH-I-D) (NWTPH-I-D) (NWTP	6.59 6.59 6.59 6.59 6.59 6.70 6.59 6.59 CR BOTTLE GO (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) (a) (Cd) (Co)	ORP (mV) 72.7 72.7 72.5 72.3 72.6 TYPE (Circle apples (Circl	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR □ OR □
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.1 9.1 9.1 9.0 9.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 204.3 204.1 203.8 203.7 204.0 NALYSIS AL (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (Total) (le) (WAD Cy) () (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.86 0.85 0.85 0.85 0.85 0.85 (MWTPH-I-D) (NWTPH-I-D) (NWTP	6.59 6.59 6.59 6.59 6.59 6.70 6.59 6.59 CR BOTTLE GO (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) (a) (Cd) (Co)	ORP (mV) 72.7 72.7 72.5 72.3 72.6 TYPE (Circle apples (Circl	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.1 9.1 9.1 9.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 204.3 204.1 203.8 203.7 204.0 NALYSIS AL (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (Total) (le) (WAD Cy) () (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.86 0.85 0.85 0.85 0.85 0.85 (MWTPH-I-D) (NWTPH-I-D) (NWTP	6.59 6.59 6.59 6.59 6.59 6.70 6.59 6.59 CR BOTTLE GO (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) (a) (Cd) (Co)	ORP (mV) 72.7 72.7 72.5 72.3 72.6 TYPE (Circle apples (Circl	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3 1 Duplicate Sar	Temp (°F/°C) 9.1 9.1 9.1 9.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 204.3 204.1 203.8 203.7 204.0 NALYSIS AL (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (Total) (le) (WAD Cy) () (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.86 0.85 0.85 0.85 0.85 0.85 (MWTPH-I-D) (NWTPH-I-D) (NWTP	6.59 6.59 6.59 6.59 6.59 6.70 6.59 6.59 CR BOTTLE GO (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) (a) (Cd) (Co)	ORP (mV) 72.7 72.7 72.5 72.3 72.6 TYPE (Circle apples (Circl	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.1 9.1 9.1 9.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 204.3 204.1 203.8 203.7 204.0 NALYSIS AL (8010) (8020 AH) (NWTPE) (etivity) (TDS) (C5310C) (Totale) (WAD Cy) (As) (Sb) (I (etals) (As) (Sb) (g short list) (hance Ethene Ac	D.O. (mg/L) 0.86 0.85 0.85 0.85 0.85 0.85 (MWTPH-I-D) (NWTPH-I-D) (NWTP	6.59 6.59 6.59 6.59 6.59 6.70 6.59 6.59 CR BOTTLE GO (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) (a) (Cd) (Co)	ORP (mV) 72.7 72.7 72.5 72.3 72.6 TYPE (Circle apples (Circl	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ne:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 21 /2022@	1248		
Sample Nun	nber:	RGW172S-	220221		Weather:	40s SUNNY			
Landau Rep	resentative:	AHA/JAM			•				
WATER LEV	VEL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES)	Damaged (N	(O)	Describe:	FLUSH		
DTW Before		8.4	Time:		Flow through ce			GW Meter No.(s	HERON 2
	Date/Time:			End Purge:	Č	2/ 21 /2022 @	. 1246	Gallons Purged:	
Purge water of			55-gal Drum	Ě	Storage Tank	Ground	_	SITE TREATM	
r arge water c	•				C	_	_		
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	. ,	. ,		ters for three	. ,	dings within the fo	. ,	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1225	12.2	263.5	1.27	6.34	-24.9		8.44		
1228	11.7	270.3	1.68	6.38	-44.5		8.44		
1231	11.1	273.8	1.50	6.40	-53.5		8.44		
1234		278.1	1.08	6.42	-60.5		8.44		
1237		282.4	0.82	6.48	-67.7		8.44		
1240	9.2	281.7	0.90	6.52	-72.9		8.44		
1243	8.7	277.1	1.03	6.54	-74.6		8.44		
SAMPLE CO	LLECTION D	OATA							
Sample Colle	ected With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste	el	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee	dure:	Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	al Order)	(T) (M)			_				
	ii Oruer)	Other							
, •	ŕ	₩	, sheen, etc.):	PALE YELL	OW, MEDIUM F	HIGH TURB, NO C	DOR, NO SHE	EN	
Sample Desc	ription (color,	turbidity, odor	· · · · · · · · · · · · · · · · · · ·						
	ription (color,	turbidity, odor	D.O.	PALE YELL	ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Describerate Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)				Comments/ Observations
Sample Description Replicate	Temp (°F/°C)	Cond. (uS/cm) 276.3	D.O. (mg/L)	рН 6.54	ORP (mV)	Turbidity	DTW	Ferrous iron	
Replicate 1 2	Temp (°F/°C) 8.8 8.7	Cond. (uS/cm) 276.3	D.O. (mg/L) 1.05	pH 6.54 6.54	ORP (mV) -74.7	Turbidity	DTW	Ferrous iron	
Sample Description Replicate	Temp (°F/°C)	Cond. (uS/cm) 276.3	D.O. (mg/L)	рН 6.54	ORP (mV)	Turbidity	DTW	Ferrous iron	
Replicate 1 2	Temp (°F/°C) 8.8 8.7	Cond. (uS/cm) 276.3	D.O. (mg/L) 1.05	pH 6.54 6.54	ORP (mV) -74.7	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3	Temp (°F/°C) 8.8 8.7	Cond. (uS/cm) 276.3 275.4 275.0	D.O. (mg/L) 1.05 1.07	pH 6.54 6.54 6.54	ORP (mV) -74.7 -74.8 -74.9	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.8 8.7 8.7 8.7	Cond. (uS/cm) 276.3 275.4 275.0 274.7 275.4	D.O. (mg/L) 1.05 1.07 1.08 1.09	pH 6.54 6.54 6.54 6.54 6.54	ORP (mV) -74.7 -74.8 -74.9 -74.9	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.8 8.7 8.7 8.7 8.7	Cond. (uS/cm) 276.3 275.4 275.0 274.7 275.4	D.O. (mg/L) 1.05 1.07 1.08 1.09 1.07	pH 6.54 6.54 6.54 6.54 6.54 6.54	ORP (mV) -74.7 -74.8 -74.9 -74.9 -74.8 TYPE (Circle ap	Turbidity	DTW (ft)	Ferrous iron (Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.8 8.7 8.7 8.7 7 TYPICAL A (8260-SIM)	Cond. (uS/cm) 276.3 275.4 275.0 274.7 275.4 NALYSIS AI	D.O. (mg/L) 1.05 1.07 1.08 1.09 1.07 LOWED PE	6.54 6.54 6.54 6.54 6.54 6.54 CR BOTTLE	ORP (mV) -74.7 -74.8 -74.9 -74.9 -74.8 TYPE (Circle application of the company of the comp	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.8 8.7 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA	Cond. (uS/cm) 276.3 275.4 275.0 274.7 275.4 NALYSIS AI (8010) (8020 AH) (NWTPH	D.O. (mg/L) 1.05 1.07 1.08 1.09 1.07 LOWED PF D) (NWTPH-H-D) (NWTF	6.54 6.54 6.54 6.54 6.54 CR BOTTLE G) (NWTPF	ORP (mV) -74.7 -74.8 -74.9 -74.8 TYPE (Circle ap H-Gx) (BTEX) I-HCID) (8081)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II) malysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C)	Cond. (uS/cm) 276.3 275.4 275.0 274.7 275.4 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD:	D.O. (mg/L) 1.05 1.07 1.08 1.09 1.07 LOWED PE D) (NWTPH-H-D) (NWTFH-S) (TSS) (E	6.54 6.54 6.54 6.54 6.54 6.54 CR BOTTLE G) (NWTPF PH-Dx) (TPF BOD) (Turbic	ORP (mV) -74.7 -74.8 -74.9 -74.8 TYPE (Circle ap H-Gx) (BTEX) I-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6	DTW (ft)	Ferrous iron (Fe II) malysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)	Cond. (uS/cm) 276.3 275.4 275.0 274.7 275.4 NALYSIS AI (8010) (8020 AH) (NWTPH lectivity) (TD: C5310C) (To	D.O. (mg/L) 1.05 1.07 1.08 1.09 1.07 LOWED PE D) (NWTPH-H-D)	6.54 6.54 6.54 6.54 6.54 6.59 CR BOTTLE G) (NWTPF PH-Dx) (TPF BOD) (Turbio ttal Kiedahl N Cyanide)	ORP (mV) -74.7 -74.8 -74.9 -74.9 -74.8 TYPE (Circle aphere) H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	Turbidity (NTU) pplicable or write (8141) (Oil & G.) (HCO3/CO3) (O.) (NO3/NO2)	non-standard and rease)	Ferrous iron (Fe II) malysis below) WA	Observations OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.8 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA (COD) (Total Cyanida (Total Metals)	Cond. (uS/cm) 276.3 275.4 275.0 274.7 275.4 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: C5310C) (To le) (WAD Cy) (As) (Sb) (D.O. (mg/L) 1.05 1.07 1.08 1.09 1.07 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towanide) (Free Ba) (Be) (Ca	6.54 6.54 6.54 6.54 6.54 6.54 6.59 CR BOTTLE GO (NWTPF PH-Dx) (TPF BOD) (Turbic stal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) -74.7 -74.8 -74.9 -74.9 -74.8 TYPE (Circle application (BTEX) H-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WO WO (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.8 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA (COD) (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 276.3 275.4 275.0 274.7 275.4 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: C5310C) (To de) (WAD Cy de) (As) (Sb) (Setals) (As) (Sb) (Setals) (As) (Sb)	D.O. (mg/L) 1.05 1.07 1.08 1.09 1.07 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towanide) (Free Ba) (Be) (Ca	6.54 6.54 6.54 6.54 6.54 6.54 6.59 CR BOTTLE GO (NWTPF PH-Dx) (TPF BOD) (Turbic stal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) -74.7 -74.8 -74.9 -74.9 -74.8 TYPE (Circle application (BTEX) H-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WO WO (NO2) (F)	Observations OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.8 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 276.3 275.4 275.0 274.7 275.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: C5310C) (To de) (WAD Cy) (As) (Sb) (etals) (As) (Sb ug short list)	D.O. (mg/L) 1.05 1.07 1.08 1.09 1.07 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towarde) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.54 6.54 6.54 6.54 6.54 6.54 6.59 CR BOTTLE GO (NWTPF PH-Dx) (TPF BOD) (Turbic stal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) -74.7 -74.8 -74.9 -74.9 -74.8 TYPE (Circle application (BTEX) H-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WO WO (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.8 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 276.3 275.4 275.0 274.7 275.4 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: C5310C) (To de) (WAD Cy de) (As) (Sb) (Setals) (As) (Sb) (Setals) (As) (Sb)	D.O. (mg/L) 1.05 1.07 1.08 1.09 1.07 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towarde) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.54 6.54 6.54 6.54 6.54 6.54 6.59 CR BOTTLE GO (NWTPF PH-Dx) (TPF BOD) (Turbic stal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) -74.7 -74.8 -74.9 -74.9 -74.8 TYPE (Circle application (BTEX) H-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WO WO (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.8 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 276.3 275.4 275.0 274.7 275.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: C5310C) (To de) (WAD Cy) (As) (Sb) (etals) (As) (Sb ug short list)	D.O. (mg/L) 1.05 1.07 1.08 1.09 1.07 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towarde) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.54 6.54 6.54 6.54 6.54 6.54 6.59 CR BOTTLE GO (NWTPF PH-Dx) (TPF BOD) (Turbic stal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) -74.7 -74.8 -74.9 -74.9 -74.8 TYPE (Circle application (BTEX) H-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WO WO (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.8 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 276.3 275.4 275.0 274.7 275.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: C5310C) (To de) (WAD Cy) (As) (Sb) (etals) (As) (Sb ug short list)	D.O. (mg/L) 1.05 1.07 1.08 1.09 1.07 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towarde) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.54 6.54 6.54 6.54 6.54 6.54 6.59 CR BOTTLE GO (NWTPF PH-Dx) (TPF BOD) (Turbic stal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) -74.7 -74.8 -74.9 -74.9 -74.8 TYPE (Circle application (BTEX) H-HCID) (8081) dity) (Alkalinity) (itrogen) (NH3)	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WO WO (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.8 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 276.3 275.4 275.0 274.7 275.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: C5310C) (To de) (WAD Cy) (As) (Sb) (etals) (As) (Sb ug short list)	D.O. (mg/L) 1.05 1.07 1.08 1.09 1.07 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towarde) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.54 6.54 6.54 6.54 6.54 6.54 6.59 CR BOTTLE GO (NWTPF PH-Dx) (TPF BOD) (Turbic stal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) -74.7 -74.8 -74.9 -74.9 -74.8 TYPE (Circle application (BTEX) H-HCID) (8081) dity) (Alkalinity) (itrogen) (NH3)	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WO WO (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3 1 1 Duplicate San	Temp (°F/°C) 8.8 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth others	Cond. (uS/cm) 276.3 275.4 275.0 274.7 275.4 (8010) (8020 AH) (NWTPF letivity) (TD: C5310C) (To le) (WAD Cy) (As) (Sb) (fetals) (As) (Stig short list) nane Ethene Actions (1980)	D.O. (mg/L) 1.05 1.07 1.08 1.09 1.07 LOWED PE D) (NWTPH-H-D) (NWTF S) (TSS) (E tal PO4) (To ranide) (Free Ba) (Be) (Ca o) (Ba) (Be) (Co cetylene	pH 6.54 6.54 6.54 6.54 6.54 CR BOTTLE G) (NWTPF PH-Dx) (TPF BOD) (Turbic stal Kiedahl N Cyanide) a) (Cd) (Co) Ca) (Cd) (Co)	ORP (mV) -74.7 -74.8 -74.9 -74.9 -74.8 TYPE (Circle applement of the content of the conten	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2) (Pb) (Mg) (Mn) (Ni) b) (Mg) (Mn) (Ni)	non-standard and rease) CI) (SO4) (NO Ni) (Ag) (Se) (TI) (V	Ferrous iron (Fe II) malysis below) WA WA WA WO WO WO WO WO WO WO WO WO WO	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3 1 Duplicate San	Temp (°F/°C) 8.8 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth others	Cond. (uS/cm) 276.3 275.4 275.0 274.7 275.4 (8010) (8020 AH) (NWTPF letivity) (TD: C5310C) (To le) (WAD Cy) (As) (Sb) (fetals) (As) (Stig short list) nane Ethene Actions (1980)	D.O. (mg/L) 1.05 1.07 1.08 1.09 1.07 LOWED PE D) (NWTPH-H-D) (NWTF S) (TSS) (E tal PO4) (To ranide) (Free Ba) (Be) (Ca o) (Ba) (Be) (Co cetylene	pH 6.54 6.54 6.54 6.54 6.54 CR BOTTLE G) (NWTPF PH-Dx) (TPF BOD) (Turbic stal Kiedahl N Cyanide) a) (Cd) (Co) Ca) (Cd) (Co)	ORP (mV) -74.7 -74.8 -74.9 -74.9 -74.8 TYPE (Circle applement of the content of the conten	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO Ni) (Ag) (Se) (TI) (V	Ferrous iron (Fe II) malysis below) WA WA WA WO WO WO WO WO WO WO WO WO WO	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	e:	Boeing Rente	on		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/21/2022@	1209		
Sample Num	nber:	RGW173S- 2	220221		Weather:	CLOUDY 40'S			
Landau Repi	resentative:	AHA							
WATER LEV	EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES)		Damaged (N	(O)	Describe:	FLUSHMOUN	Т	
DTW Before		8.56	Time:		Flow through cel		-	GW Meter No.(s	SLOPE 2
		2/ 21/2022 @	1145	End Purge:	-	2/21 /2022 @	1207	Gallons Purged:	0.25
Purge water d			55-gal Drum	Ě	Storage Tank	Ground	_	SITE TREATM	
i arge water a	isposed to.				-	_	_		ENTOTOLEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	` /	` /	. 0 /	ters for three	· /	dings within the fo	. ,	>/= 1 flow	Obstivations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1148	10.4	247.1	1.39	6.56	95.3		8.49		
1151	10.0	253.9	0.89	6.54	93.2		8.49		
1154	9.6	264.1	0.15	6.60	88.1		8.49		
1157	9.3	266.9	0.56	6.63	82.6		8.49	-	
1200	9.3	266.6	0.72	6.63	82.3				
1203	8.8	264.4	0.71	6.65	78.8				
1206	8.7	263.4	0.69	6.66	77.3				
SAMPLE CO	LLECTION D	ATA							
Sample Collec	cted With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Stee	ı 🗇	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Wash	,	Tap Rinse	DI Water	Dedicated			
(By Numerica		Other			₩				
			sheen, etc.):						
		turbidity, odor,	sheen, etc.):		LOW-MED TUR	B, NO ODOR, NO	SHEEN		
. •			sheen, etc.):		LOW-MED TUR	Turbidity	SHEEN DTW	Ferrous iron	Comments/
Sample Descr	ription (color, t	turbidity, odor,		NOCOLOR,				Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	Temp	turbidity, odor,	D.O.	NOCOLOR,	ORP	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	NOCOLOR, pH	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C) 8.7	Cond. (uS/cm) 263.3	D.O. (mg/L) 0.67	NOCOLOR, pH	ORP (mV) 76.9 76.8	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 8.7 8.7	Cond. (uS/cm) 263.3 263.3 263.3	D.O. (mg/L) 0.67 0.68	NOCOLOR, pH 6.66 6.66 6.66	ORP (mV) 76.9 76.8 76.6	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 8.7 8.7 8.7	Cond. (uS/cm) 263.3 263.3 263.3	D.O. (mg/L) 0.67 0.68 0.68	NOCOLOR, pH 6.66 6.66 6.66 6.66	76.9 76.8 76.6 76.3	Turbidity (NTU)	DTW		
Replicate 1 2 3	Temp (°F/°C) 8.7 8.7	Cond. (uS/cm) 263.3 263.3 263.3	D.O. (mg/L) 0.67 0.68	NOCOLOR, pH 6.66 6.66 6.66	ORP (mV) 76.9 76.8 76.6	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.7 8.7 8.7 8.7	Cond. (uS/cm) 263.3 263.3 263.3 262.9	D.O. (mg/L) 0.67 0.68 0.68 0.67	NOCOLOR, pH 6.66 6.66 6.66 6.66	ORP (mV) 76.9 76.8 76.6 76.3 76.7	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 TYPICAL A' (8260-SIM)	Cond. (uS/cm) 263.3 263.3 263.3 262.9 263.2 NALYSIS ALI (8010) (8020)	D.O. (mg/L) 0.67 0.68 0.68 0.67 0.68 LOWED PE	NOCOLOR, pH 6.66 6.66 6.66 6.66 6.66 CR BOTTLE G) (NWTPF	76.9 76.8 76.6 76.3 76.7 TYPE (Circle appl-Gx) (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 8.7 8.7 (8260-SIM) (8270D) (PA	Cond. (uS/cm) 263.3 263.3 263.3 263.2 NALYSIS ALI (8010) (8020) CH) (NWTPH-	D.O. (mg/L) 0.67 0.68 0.68 0.67 0.68 LOWED PE (NWTPH-D) (NWTP	NOCOLOR, pH 6.66 6.66 6.66 6.66 CR BOTTLE G) (NWTPI	76.9 76.8 76.6 76.3 76.7 TYPE (Circle ap H-Gx) (BTEX) H-HCID) (8081)	#DIV/0!	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average: QUANTITY 9	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 7 YPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 263.3 263.3 263.3 263.9 263.2 NALYSIS ALI (8010) (8020) AH) (NWTPHactivity) (TDS	D.O. (mg/L) 0.67 0.68 0.68 0.67 0.68 LOWED PE (NWTPH-D) (NWTPH) (TSS) (B	0.666 0.666 0.666 0.666 0.666 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700	76.9 76.8 76.6 76.3 76.7 TYPE (Circle aph-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity)	#DIV/0! #DIV/0! (8141) (Oil & Grid (HCO3/CO3) (Grid (HCO3/CO3))	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 7 8.7 8.7	Cond. (uS/cm) 263.3 263.3 263.3 262.9 263.2 NALYSIS ALI (8010) (8020) AH) (NWTPH- activity) (TDS C5310C) (Tota	D.O. (mg/L) 0.67 0.68 0.68 0.67 0.68 LOWED PE (NWTPH-D) (NWTPH-D) (NWTPH-D) (NWTPH-D) (NWTPH-D) (NWTPH-D) (TSS) (E) (E) (NWTPH-D) (TSS) (E) (E) (E) (E) (E) (E) (E) (E) (E) (E	0.666 0.666 0.666 0.666 0.666 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	76.9 76.8 76.6 76.3 76.7 TYPE (Circle ap H-Gx) (BTEX) H-HCID) (8081)	#DIV/0! #DIV/0! (8141) (Oil & Grid (HCO3/CO3) (Grid (HCO3/CO3))	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 9	Temp (°F/°C)	Cond. (uS/cm) 263.3 263.3 263.3 262.9 263.2 NALYSIS ALI (8010) (8020) AH) (NWTPH- lectivity) (TDS) C5310C) (Tota e) (WAD Cya	D.O. (mg/L) 0.67 0.68 0.68 0.67 0.68 LOWED PE (NWTPH-D) (NWTPH-D) (TSS) (Edl PO4) (To nide) (Free	0.666 0.666 0.666 0.666 0.666 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	76.9 76.8 76.6 76.3 76.7 TYPE (Circle aph-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) ditrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grove (HCO3/CO3) (Original (NO3/NO2))	non-standard and rease)	(Fe II) malysis below) WA WA WA Sign (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 9	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction (COD) (Total Cyanidation (Total Metals))	Cond. (uS/cm) 263.3 263.3 263.3 263.3 263.2 NALYSIS ALI (8010) (8020) AH) (NWTPH- lectivity) (TDS C5310C) (Tota e) (WAD Cya e) (As) (Sb) (E	D.O. (mg/L) 0.67 0.68 0.68 0.67 0.68 LOWED PE (NWTPH-D) (NWTP) (TSS) (Bal PO4) (To nide) (Free Ba) (Be) (Cal	PHOCOLOR, pH 6.66 6.66 6.66 6.66 CR BOTTLE GO) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 76.9 76.8 76.6 76.3 76.7 TYPE (Circle appl-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) fitrogen) (NH3)	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr (NO3/NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA (S) (NO2) (F) Tl) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 9	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M.	Cond. (uS/cm) 263.3 263.3 263.3 263.3 263.2 NALYSIS ALI (8010) (8020) AH) (NWTPHactivity) (TDS C5310C) (Tota e) (WAD Cya b) (As) (Sb) (Eetals) (As) (Sb) (Eetals) (As) (Sb)	D.O. (mg/L) 0.67 0.68 0.68 0.67 0.68 LOWED PE (NWTPH-D) (NWTP) (TSS) (Bal PO4) (To nide) (Free Ba) (Be) (Cal	PHOCOLOR, pH 6.66 6.66 6.66 6.66 CR BOTTLE GO) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 76.9 76.8 76.6 76.3 76.7 TYPE (Circle appl-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) fitrogen) (NH3)	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr (NO3/NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA (S) (NO2) (F) Tl) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 9	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 263.3 263.3 263.3 263.3 263.2 NALYSIS ALI (8010) (8020) AH) (NWTPHactivity) (TDS C5310C) (Tota e) (WAD Cya b) (As) (Sb) (Eetals) (As) (Sb) (Eetals) (As) (Sb)	D.O. (mg/L) 0.67 0.68 0.68 0.67 0.68 LOWED PE (NWTPH-D) (NWTPH-D) (NWTPH-D) (TSS) (Bal PO4) (To mide) (Free Ba) (Be) (Call (Ba) (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba)	PHOCOLOR, pH 6.66 6.66 6.66 6.66 CR BOTTLE GO) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 76.9 76.8 76.6 76.3 76.7 TYPE (Circle appl-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) fitrogen) (NH3)	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr (NO3/NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA (S) (NO2) (F) Tl) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 9	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 263.3 263.3 263.3 263.3 263.9 263.2 NALYSIS ALI (8010) (8020) AH) (NWTPH- uctivity) (TDS (25310C) (Tota (e) (WAD Cya (f) (As) (Sb) (Be (et als) (As) (Sb) (g) (g) short list)	D.O. (mg/L) 0.67 0.68 0.68 0.67 0.68 LOWED PE (NWTPH-D) (NWTPH-D) (NWTPH-D) (TSS) (Bal PO4) (To mide) (Free Ba) (Be) (Call (Ba) (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba)	PHOCOLOR, pH 6.66 6.66 6.66 6.66 CR BOTTLE GO) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 76.9 76.8 76.6 76.3 76.7 TYPE (Circle appl-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) fitrogen) (NH3)	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr (NO3/NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA (S) (NO2) (F) Tl) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 9	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 263.3 263.3 263.3 263.3 263.9 263.2 NALYSIS ALI (8010) (8020) AH) (NWTPH- uctivity) (TDS (25310C) (Tota (e) (WAD Cya (f) (As) (Sb) (Be (et als) (As) (Sb) (g) (g) short list)	D.O. (mg/L) 0.67 0.68 0.68 0.67 0.68 LOWED PE (NWTPH-D) (NWTPH-D) (NWTPH-D) (TSS) (Bal PO4) (To mide) (Free Ba) (Be) (Call (Ba) (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba)	PHOCOLOR, pH 6.66 6.66 6.66 6.66 CR BOTTLE GO) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 76.9 76.8 76.6 76.3 76.7 TYPE (Circle appl-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) fitrogen) (NH3)	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr (NO3/NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA (S) (NO2) (F) Tl) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 9	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 263.3 263.3 263.3 263.3 263.9 263.2 NALYSIS ALI (8010) (8020) AH) (NWTPH- uctivity) (TDS (25310C) (Tota (e) (WAD Cya (f) (As) (Sb) (Be (et als) (As) (Sb) (g) (g) short list)	D.O. (mg/L) 0.67 0.68 0.68 0.67 0.68 LOWED PE (NWTPH-D) (NWTPH-D) (NWTPH-D) (TSS) (Bal PO4) (To mide) (Free Ba) (Be) (Call (Ba) (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Call (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba)	PHOCOLOR, pH 6.66 6.66 6.66 6.66 CR BOTTLE GO) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 76.9 76.8 76.6 76.3 76.7 TYPE (Circle appl-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) fitrogen) (NH3)	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr (NO3/NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA (S) (NO2) (F) Tl) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 9 3 3	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 263.3 263.3 263.3 263.3 263.2 NALYSIS ALI (8010) (8020) AH) (NWTPH- lectivity) (TDS 25310C) (Tota e) (WAD Cya b) (As) (Sb) (E etals) (As) (Sb) (E etals) (As) (Sb) g short list) lane Ethene Acc	D.O. (mg/L) 0.67 0.68 0.68 0.67 0.68 LOWED PE (NWTPH-D) (NWTP) (TSS) (Bal PO4) (To nide) (Free Ba) (Be) (Cat (Ba) (Ba) (Be) (Cat (Ba) (Ba) (Be) (Cat (Ba) (Ba) (Be) (Cat (Ba) (Be) (Ba) (Be) (Cat (Ba) (Ba) (Be) (Cat (Ba) (Ba) (Be) (Ba) (Be) (Ba) (Be) (Be) (Ba) (Be) (Be) (Be) (Be) (Be) (Be) (Be) (Be	PHOCOLOR, pH 6.66 6.66 6.66 6.66 CR BOTTLE GO) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 76.9 76.8 76.6 76.3 76.7 TYPE (Circle appl-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) fitrogen) (NH3)	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr (NO3/NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA (S) (NO2) (F) Tl) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 9 3 Duplicate San	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 263.3 263.3 263.3 263.3 263.9 263.2 NALYSIS ALI (8010) (8020) AH) (NWTPH- uctivity) (TDS (25310C) (Tota (e) (WAD Cya (f) (As) (Sb) (Be (et als) (As) (Sb) (g) (g) short list)	D.O. (mg/L) 0.67 0.68 0.68 0.67 0.68 LOWED PE (NWTPH-D) (NWTP) (TSS) (Bal PO4) (To nide) (Free Ba) (Be) (Cat (Ba) (Ba) (Be) (Cat (Ba) (Ba) (Be) (Cat (Ba) (Ba) (Be) (Cat (Ba) (Be) (Ba) (Be) (Cat (Ba) (Ba) (Be) (Cat (Ba) (Ba) (Be) (Ba) (Be) (Ba) (Be) (Be) (Ba) (Be) (Be) (Be) (Be) (Be) (Be) (Be) (Be	PHOCOLOR, pH 6.66 6.66 6.66 6.66 CR BOTTLE GO) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 76.9 76.8 76.6 76.3 76.7 TYPE (Circle appl-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) fitrogen) (NH3)	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr (NO3/NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA (S) (NO2) (F) Tl) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 9 3 3	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 263.3 263.3 263.3 263.3 262.9 263.2 NALYSIS ALI (8010) (8020) AH) (NWTPH- activity) (TDS C5310C) (Tota e) (WAD Cya e) (WAD Cya e) (As) (Sb) (E etals) (As) (Sb) (E etals) (As) (Sb) g short list) mane Ethene Acc	D.O. (mg/L) 0.67 0.68 0.68 0.67 0.68 LOWED PE (NWTPH-D) (NWTP) (TSS) (Bal PO4) (To nide) (Free Ba) (Be) (Cat (Ba) (Ba) (Be) (Cat (Ba) (Ba) (Be) (Cat (Ba) (Ba) (Be) (Cat (Ba) (Be) (Ba) (Be) (Cat (Ba) (Ba) (Be) (Cat (Ba) (Ba) (Be) (Ba) (Be) (Ba) (Be) (Be) (Ba) (Be) (Be) (Be) (Be) (Be) (Be) (Be) (Be	PHOCOLOR, pH 6.66 6.66 6.66 6.66 CR BOTTLE GO) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 76.9 76.8 76.6 76.3 76.7 TYPE (Circle appl-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) fitrogen) (NH3)	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr (NO3/NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA (S) (NO2) (F) Tl) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	e <u>:</u>	Boeing Ren	ton		Project Number	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 23 /2022@	1025		
Sample Num	ıber:	RGW176S-	220223		Weather:	SUNNY 40'S			
Landau Repr	resentative:	AHA							
WATER LEV	EL/WELL/PU	IRGE DATA							
Well Conditio		Secure (YES)	Damaged (N	(O)	Describe:	FLUSHMOUN	Т	
DTW Before l	Purging (ft)	5.51	Time:	• ,	Flow through ce	ll vol.		GW Meter No.(s	HERON 2
Begin Purge:		2/ 23 /2022 (End Purge:	C	2/ 23 /2022 @	1023	Gallons Purged:	0.25
Purge water d			55-gal Drum		Storage Tank	Ground		SITE TREATMI	
r argo mater a	1		-		C	_	_		
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	` /	` /		ters for three	` /	dings within the fo	` '	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1004	11.1	501.0	1.12	6.38	97.9		5.51		
1007	9.9	494.1	3.29	6.36	82.3		5.51		
1010	8.9	473.2	2.77	6.35	74.2		5.51		
1013	7.7	434.7	1.36	6.36	72.5		5.52		
1016	7.4	423.4	1.23	6.36	73.2				
1019	7.1	414.9	1.13	6.36	73.6				
1022	6.8	402.1	0.97	6.35	73.8				
SAMPLE CO	LLECTION D	ATA							
Sample Collec	eted With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	sh 🗍	Tap Rinse	DI Water	Dedicated		_	
(By Numerica		Other		•					
	i Oruci)	II II Other							
	ŕ	-	, sheen, etc.):	LIGHT BRO	OWN, MED-HIGH	I TURB, NO ODO	R, NO SHEEN		
	ŕ	-	, sheen, etc.):	LIGHT BRO	OWN, MED-HIGH	I TURB, NO ODO	R, NO SHEEN		
	iption (color, t	turbidity, odor	D.O.	LIGHT BRO	ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr	iption (color, t	turbidity, odor						Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	iption (color, t	turbidity, odor	D.O.		ORP	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm) 401.9	D.O. (mg/L)	рН 6.35	ORP (mV)	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 6.8 6.8	Cond. (uS/cm) 401.9 400.6	D.O. (mg/L) 0.97 0.95	pH 6.35 6.35 6.35	ORP (mV) 73.7 73.6 73.6	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 6.8 6.8 6.8	Cond. (uS/cm) 401.9 400.6 400.5	D.O. (mg/L) 0.97 0.95 0.92	pH 6.35 6.35 6.35 6.35	ORP (mV) 73.7 73.6 73.6 73.5	Turbidity (NTU)	DTW		
Replicate 1 2 3	Temp (°F/°C) 6.8 6.8	Cond. (uS/cm) 401.9 400.6	D.O. (mg/L) 0.97 0.95	pH 6.35 6.35 6.35	ORP (mV) 73.7 73.6 73.6	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8	Cond. (uS/cm) 401.9 400.6 400.5	D.O. (mg/L) 0.97 0.95 0.92 0.92	pH 6.35 6.35 6.35 6.35 6.35	ORP (mV) 73.7 73.6 73.6 73.5 73.6	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010	Cond. (uS/cm) 401.9 400.6 400.5 401.2 NALYSIS AI (0) (8020) (N	D.O. (mg/L) 0.97 0.95 0.92 0.92 0.94 LOWED PE	6.35 6.35 6.35 6.35 6.35 R BOTTLE NWTPH-GX	73.7 73.6 73.6 73.5 73.6 73.6 TYPE (Circle apple) (BTEX)	Turbidity (NTU) #DIV/0! oplicable or write	DTW (ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 TYPICAL A (8260) (8010)	Cond. (uS/cm) 401.9 400.6 400.5 401.2 NALYSIS AI (0) (8020) (N	D.O. (mg/L) 0.97 0.95 0.92 0.94 LOWED PE	6.35 6.35 6.35 6.35 6.35 RR BOTTLE NWTPH-GX;	ORP (mV) 73.7 73.6 73.6 73.5 73.6 TYPE (Circle application (BTEX)) H-HCID) (8081)	#DIV/0! pplicable or write	DTW (ft) non-standard and arease)	(Fe II) nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 401.9 400.6 400.5 401.2 NALYSIS AI (D) (8020) (N AH) (NWTPHetivity) (TD)	D.O. (mg/L) 0.97 0.95 0.92 0.92 0.94 LOWED PENWTPH-G) (NWTP S) (TSS) (B	6.35 6.35 6.35 6.35 6.35 R BOTTLE NWTPH-GX H-DX) (TPF	ORP (mV) 73.7 73.6 73.6 73.5 73.6 TYPE (Circle ap (BTEX) H-HCID) (8081) dity) (Alkalinity)	#DIV/0! plicable or write (8141) (Oil & G (HCO3/CO3) (6	DTW (ft) non-standard and arease)	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 401.9 400.6 400.5 401.2 NALYSIS AI (b) (8020) (N (c) (NWTPH (c) (Total PO4)	D.O. (mg/L) 0.97 0.95 0.92 0.92 0.94 LOWED PENTTH-G) (M-D) (NWTPS) (TSS) (B4) (Total Kie	6.35 6.35 6.35 6.35 6.35 6.35 R BOTTLE NWTPH-Gx H-Dx) (TPH-DX) (TPH-DX) (Turbio dahl Nitroger	ORP (mV) 73.7 73.6 73.6 73.5 73.6 TYPE (Circle application (BTEX)) H-HCID) (8081)	#DIV/0! plicable or write (8141) (Oil & G (HCO3/CO3) (6	DTW (ft) non-standard and arease)	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 6.8 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid	Cond. (uS/cm) 401.9 400.6 400.5 401.2 NALYSIS AI (D) (8020) (N AH) (NWTPH (ctivity) (TDS (C) (Total PO4 (e) (WAD Cy	D.O. (mg/L) 0.97 0.95 0.92 0.92 0.94 LLOWED PE WTPH-G) (NWTP S) (TSS) (E 4) (Total Kie ranide) (Free	pH 6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-Gx; PH-Dx) (TPH-OD) (Turbid dahl Nitroger Cyanide)	ORP (mV) 73.7 73.6 73.6 73.5 73.6 TYPE (Circle ap or (BTEX)) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G. (HCO3/CO3) (O	DTW (ft) non-standard and arease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA Solution W	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 401.9 400.6 400.5 401.2 NALYSIS AI (D) (8020) (N AH) (NWTPH (ctivity) (TDS) (C) (Total PO2 (e) (WAD Cy () (As) (Sb) (D.O. (mg/L) 0.97 0.95 0.92 0.94 LLOWED PE (WTPH-G) (NWTP (NWTPH-G) (NWTP (NWTPH-G) (NWTPH-G	6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX H-DX) (TPF COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 73.7 73.6 73.6 73.5 73.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) (h) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010) (8270D) (PA (pH) (Conduction (COD) (TOC) (Total Cyanid (Total Metals) (Dissolved Metals)	Cond. (uS/cm) 401.9 400.6 400.5 401.2 NALYSIS AI (D) (8020) (N (M) (NWTPHetivity) (TDS) (C) (Total PO4 (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (St	D.O. (mg/L) 0.97 0.95 0.92 0.94 LLOWED PE (WTPH-G) (NWTP (NWTPH-G) (NWTP (NWTPH-G) (NWTPH-G	6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX H-DX) (TPF COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 73.7 73.6 73.6 73.5 73.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) (h) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 401.9 400.6 400.5 401.2 NALYSIS AI (D) (8020) (N (M) (NWTPHetivity) (TDS) (C) (Total PO4 (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (St	D.O. (mg/L) 0.97 0.95 0.92 0.94 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX H-DX) (TPF COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 73.7 73.6 73.6 73.5 73.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) (h) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 401.9 400.6 400.5 401.2 NALYSIS AI () (8020) (N () (NWTPHetivity) (TD) (C) (Total PO4 (e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.97 0.95 0.92 0.94 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX H-DX) (TPF COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 73.7 73.6 73.6 73.5 73.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) (h) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 401.9 401.9 400.6 400.5 401.2 NALYSIS AI () (8020) (N (AH) (NWTPHactivity) (TDS (C) (Total PO4 (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.97 0.95 0.92 0.94 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX H-DX) (TPF COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 73.7 73.6 73.6 73.5 73.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) (h) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 401.9 401.9 400.6 400.5 401.2 NALYSIS AI () (8020) (N (AH) (NWTPHactivity) (TDS (C) (Total PO4 (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.97 0.95 0.92 0.94 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX H-DX) (TPF COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 73.7 73.6 73.6 73.5 73.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) (h) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.8 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 401.9 401.9 400.6 400.5 401.2 NALYSIS AI () (8020) (N (AH) (NWTPHactivity) (TDS (C) (Total PO4 (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.97 0.95 0.92 0.94 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX H-DX) (TPF COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 73.7 73.6 73.6 73.5 73.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) (h) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3 Duplicate San	Temp (°F/°C) 6.8 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 401.9 401.9 400.6 400.5 401.2 NALYSIS AI () (8020) (N (AH) (NWTPHactivity) (TDS (C) (Total PO4 (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.97 0.95 0.92 0.94 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX H-DX) (TPF COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 73.7 73.6 73.6 73.5 73.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) (h) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.8 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 401.9 401.9 400.6 400.5 401.2 NALYSIS AI () (8020) (N (AH) (NWTPHactivity) (TDS (C) (Total PO4 (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.97 0.95 0.92 0.94 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX H-DX) (TPF COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 73.7 73.6 73.6 73.5 73.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) (h) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ie:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 23 /2022@	1139		
Sample Nun	nber:	RGW178S-	220223		Weather:	SUNNY 40'S			
Landau Rep	resentative:								
WATER LEV	/EL/WELL/PU	IRGE DATA							
Well Condition	on:	Secure (YES)	Damaged (N	(O)	Describe:	FLUSHMOUN	T	
DTW Before	Purging (ft)	7.66	Time:	1113	Flow through cel	ll vol.		GW Meter No.(s	HERON 2
	Date/Time:	2/ 23 /2022	1115	End Purge:	Date/Time:	2/ 23 /2022 @	1137	Gallons Purged:	0.25
Purge water d	lisposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATMI	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	pm	(mV)	(NTU)	(ft)	Volume (gal)	Observations
	_					dings within the fo	_	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1118	8.9	311.5	0.63	6.35	75.1		7.71		
1121	7.6	292.3	0.60	6.35	70.8		7.71		
1124	6.9	271.9	0.65	6.35	69.7		7.71		
						-		-	
							· 		
							- <u></u>		
SAMPLE CO	LLECTION D								
Sample Colle	cted With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	101	- ·							
(by Numerica	il Order)	Other							
			, sheen, etc.):	NO COLOR	, LOW TURB, NO	O ODOR, NOSHEI	EN		
Sample Descr	ription (color,	turbidity, odor			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
	Temp	turbidity, odor	D.O.	NO COLOR	ORP	Turbidity	DTW	Ferrous iron	Comments/ Observations
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	· · · · · · · · · · · · · · · · · · ·		Ferrous iron (Fe II)	Comments/ Observations
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm) 271.8	D.O. (mg/L)	рН 6.34	ORP (mV)	Turbidity	DTW		
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW		
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm) 271.8	D.O. (mg/L)	рН 6.34	ORP (mV)	Turbidity	DTW		
Sample Description Replicate 1 2	Temp (°F/°C) 6.8	Cond. (uS/cm) 271.8	D.O. (mg/L) 0.56	pH 6.34 6.34	ORP (mV) 69.8	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 6.8 6.8	Cond. (uS/cm) 271.8 270.6	D.O. (mg/L) 0.56 0.58	pH 6.34 6.34 6.34	ORP (mV) 69.8 69.9	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8	Cond. (uS/cm) 271.8 271.2 270.6 269.9 270.9	D.O. (mg/L) 0.56 0.58 0.59 0.61	pH 6.34 6.34 6.34 6.34 6.34	ORP (mV) 69.8 69.9 69.9	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8	Cond. (uS/cm) 271.8 271.2 270.6 269.9 270.9	D.O. (mg/L) 0.56 0.58 0.59 0.61 0.59	pH 6.34 6.34 6.34 6.34 6.34 6.34	ORP (mV) 69.8 69.9 69.9 69.8 69.9 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010	Cond. (uS/cm) 271.8 271.2 270.6 269.9 270.9 NALYSIS AI () (8020) (N	D.O. (mg/L) 0.56 0.58 0.59 0.61 0.59 LOWED PE	6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-GX	ORP (mV) 69.8 69.9 69.9 69.8 69.9 TYPE (Circle apple) (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 6.8 (8260) (8010 (8270D) (PA	Cond. (uS/cm) 271.8 271.2 270.6 269.9 270.9 NALYSIS AI (NWTPH	D.O. (mg/L) 0.56 0.58 0.59 0.61 0.59 LOWED PE	6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-Gx;	ORP (mV) 69.8 69.9 69.9 69.8 69.9 TYPE (Circle apple (BTEX)) H-HCID) (8081)	Turbidity (NTU) #DIV/0! pplicable or write	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 271.8 271.2 270.6 269.9 270.9 NALYSIS AI (b) (8020) (NAH) (NWTPHetivity) (TD:	D.O. (mg/L) 0.56 0.58 0.59 0.61 0.59 LOWED PENWTPH-G) (NWTP PENWTPH-	6.34 6.34 6.34 6.34 6.34 CR BOTTLE (NWTPH-GX) PH-Dx) (TPF-GOD) (Turbic	ORP (mV) 69.8 69.9 69.9 69.8 69.9 TYPE (Circle apple (BTEX)) H-HCID) (8081)	#DIV/0! #DIV/0! plicable or write (8141) (Oil & G	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 271.8 271.2 270.6 269.9 270.9 NALYSIS AI (b) (8020) (N AH) (NWTPH detivity) (TD: (C) (Total PO-	D.O. (mg/L) 0.56 0.58 0.59 0.61 0.59 LOWED PENTPH-G) (M-D) (NWTPS) (TSS) (B4) (Total Kie	6.34 6.34 6.34 6.34 6.34 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-BOD) (Turbio dahl Nitroger	ORP (mV) 69.8 69.9 69.9 69.8 69.9 TYPE (Circle ap (BTEX)) H-HCID) (8081) dity) (Alkalinity)	#DIV/0! #DIV/0! plicable or write (8141) (Oil & G	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 271.8 271.2 270.6 269.9 270.9 NALYSIS AI (NWTPHactivity) (TD: (C) (Total PO- (C) (WAD Cy (AS) (Sb) (D.O. (mg/L) 0.56 0.58 0.59 0.61 0.59 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.34 6.34 6.34 6.34 6.34 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TUrbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 69.8 69.9 69.9 69.8 69.9 TYPE (Circle apple (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G (HCO3/CO3) (O	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 271.8 271.2 270.6 269.9 270.9 NALYSIS AI O) (8020) (N AH) (NWTPH lectivity) (TD: C) (Total PO- e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L) 0.56 0.58 0.59 0.61 0.59 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.34 6.34 6.34 6.34 6.34 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TUrbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 69.8 69.9 69.9 69.8 69.9 TYPE (Circle apple (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G (HCO3/CO3) (O	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 6.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 271.8 271.2 270.6 269.9 270.9 NALYSIS AI (NWTPHetrivity) (TD: (C) (Total POde) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.56 0.58 0.59 0.61 0.59 LOWED PENWTPH-G) (NWTP S) (TSS) (Bd) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	pH 6.34 6.34 6.34 6.34 6.34 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TUrbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 69.8 69.9 69.9 69.8 69.9 TYPE (Circle apple (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G (HCO3/CO3) (O	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 6.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 271.8 271.2 270.6 269.9 270.9 NALYSIS AI O) (8020) (N AH) (NWTPH lectivity) (TD: C) (Total PO- e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L) 0.56 0.58 0.59 0.61 0.59 LOWED PENWTPH-G) (NWTP S) (TSS) (Bd) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	pH 6.34 6.34 6.34 6.34 6.34 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TUrbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 69.8 69.9 69.9 69.8 69.9 TYPE (Circle apple (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G (HCO3/CO3) (O	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 6.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 271.8 271.2 270.6 269.9 270.9 NALYSIS AI (NWTPHetrivity) (TD: (C) (Total POde) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.56 0.58 0.59 0.61 0.59 LOWED PENWTPH-G) (NWTP S) (TSS) (Bd) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	pH 6.34 6.34 6.34 6.34 6.34 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TUrbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 69.8 69.9 69.9 69.8 69.9 TYPE (Circle apple (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G (HCO3/CO3) (O	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 271.8 271.2 270.6 269.9 270.9 NALYSIS AI (NWTPHetrivity) (TD: (C) (Total POde) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.56 0.58 0.59 0.61 0.59 LOWED PENWTPH-G) (NWTP S) (TSS) (Bd) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	pH 6.34 6.34 6.34 6.34 6.34 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TUrbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 69.8 69.9 69.9 69.8 69.9 TYPE (Circle apple (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G (HCO3/CO3) (O	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 6.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 271.8 271.2 270.6 269.9 270.9 NALYSIS AI (NWTPHetrivity) (TD: (C) (Total POde) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.56 0.58 0.59 0.61 0.59 LOWED PENWTPH-G) (NWTP S) (TSS) (Bd) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	pH 6.34 6.34 6.34 6.34 6.34 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TUrbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 69.8 69.9 69.9 69.8 69.9 TYPE (Circle apple (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G (HCO3/CO3) (O	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 271.8 271.2 270.6 269.9 270.9 NALYSIS AI (NWTPHetrivity) (TD: (C) (Total POde) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.56 0.58 0.59 0.61 0.59 LOWED PENWTPH-G) (NWTP S) (TSS) (Bd) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	pH 6.34 6.34 6.34 6.34 6.34 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TUrbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 69.8 69.9 69.9 69.8 69.9 TYPE (Circle apple (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G (HCO3/CO3) (O	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.8 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 271.8 271.2 270.6 269.9 270.9 NALYSIS AI (NWTPHetrivity) (TD: (C) (Total POde) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.56 0.58 0.59 0.61 0.59 LOWED PENWTPH-G) (NWTP S) (TSS) (Bd) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	pH 6.34 6.34 6.34 6.34 6.34 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) (TUrbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 69.8 69.9 69.9 69.8 69.9 TYPE (Circle apple (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G (HCO3/CO3) (O	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ne <u>:</u>	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 22 /2022@	1352		
Sample Nun	nber:	RGW188S-	220222		Weather:	SNOWING, 30s			
Landau Rep	resentative:	SJL/JAM/A	НА						
WATER LEV	/EL/WELL/PU	JRGE DATA							
Well Condition		Secure (YES)	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	4.30	Time:		Flow through ce	ll vol		GW Meter No.(s	SLIOPE #2
	Date/Time:			End Purge:	_	2/ 22 /2022 @	1350	Gallons Purged:	
Purge water d		2/ 22 /2022	55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	
ruige water d	nsposed to.		55-gai Diuiii		Storage Tank	E Ground	Other	SHE TREATMI	ENI SISIEWI
mr.	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C) Purge Goal	(uS/cm) ls: Stablizatio	(mg/L) on of Parame	ters for three	(mV)	(NTU) dings within the fo	(ft) Howing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1330	9.8	331.9	1.08	6.06	7.3		4.31		
1333	7.8	316.5	1.08	6.10	-14.6		4.30		
1336		314.0	1.09	6.10	-16.4		4.29		
1339	7.4	310.3	1.12	6.12	-19.9				
								-	
SAMPLE CO	DLLECTION D	ΔΤΔ							
Sample Colle			Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Was		Tap Rinse	DI Water	Dedicated		Bearcaica	
(By Numerica	_	Other	SII 🔲	rap Kilise	□ Di Watei	Dedicated			
(DV Numerica									
		-	ahaan ata)	CIEAD CII	CUT VELLOW	COLOR NO/NG			
		-	r, sheen, etc.)	CLEAR, SLI	GHT YELLOW	COLOR, NO/NS			
		-	D.O.	CLEAR, SLI	GHT YELLOW (COLOR, NO/NS Turbidity	DTW	Ferrous iron	Comments/
Sample Desci	ription (color,	turbidity, odor	<u>-</u>				DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Desci	ription (color,	turbidity, odor	D.O.		ORP	Turbidity			
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm) 309.0	D.O. (mg/L)	рН 6.12	ORP (mV)	Turbidity			
Replicate 1 2	Temp (°F/°C) 7.3 7.3	Cond. (uS/cm) 309.0	D.O. (mg/L) 1.07	pH 6.12 6.12	ORP (mV) -21.2 -21.6	Turbidity			
Replicate 1 2 3	Temp (°F/°C) 7.3 7.3	Cond. (uS/cm) 309.0 308.7	D.O. (mg/L) 1.07 1.05	pH 6.12 6.12 6.12	ORP (mV) -21.2 -21.6 -22.2	Turbidity			
Replicate 1 2	Temp (°F/°C) 7.3 7.3	Cond. (uS/cm) 309.0	D.O. (mg/L) 1.07	pH 6.12 6.12	ORP (mV) -21.2 -21.6	Turbidity			
Replicate 1 2 3	Temp (°F/°C) 7.3 7.3	Cond. (uS/cm) 309.0 308.7	D.O. (mg/L) 1.07 1.05	pH 6.12 6.12 6.12	ORP (mV) -21.2 -21.6 -22.2	Turbidity			
Replicate 1 2 3 4	Temp (°F/°C) 7.3 7.3 7.3 7.3	Cond. (uS/cm) 309.0 308.7 308.3 307.7 308.4	D.O. (mg/L) 1.07 1.05 1.04 1.02	6.12 6.12 6.12 6.12 6.12	ORP (mV) -21.2 -21.6 -22.2 -22.6 -21.9	Turbidity (NTU)	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 	Cond. (uS/cm) 309.0 308.7 308.3 307.7 308.4	D.O. (mg/L) 1.07 1.05 1.04 1.02 1.05	6.12 6.12 6.12 6.12 6.12 6.12 6.12	ORP (mV) -21.2 -21.6 -22.2 -22.6 -21.9 TYPE (Circle ap	Turbidity (NTU) #DIV/0!	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 7.3 7.3 7.3 7.3 7.3 7.3 TYPICAL A (8260) (8010	Cond. (uS/cm) 309.0 308.7 308.3 307.7 308.4 NALYSIS AI	D.O. (mg/L) 1.07 1.05 1.04 1.02 1.05 LOWED PE	6.12 6.12 6.12 6.12 6.12 6.12 6.12 (CR BOTTLE (NWTPH-GX)	ORP (mV) -21.2 -21.6 -22.2 -22.6 -21.9 TYPE (Circle aport) (BTEX)	Turbidity (NTU) #DIV/0!	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	Cond. (uS/cm) 309.0 308.7 308.3 307.7 308.4 NALYSIS AI 0) (8020) (NAH) (NWTPH	D.O. (mg/L) 1.07 1.05 1.04 1.02 1.05 LOWED PP NWTPH-G) (NWTP	6.12 6.12 6.12 6.12 6.12 6.12 6.12 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH	ORP (mV) -21.2 -21.6 -22.2 -22.6 -21.9 TYPE (Circle ap (BTEX)) I-HCID) (8081)	Turbidity (NTU) #DIV/0!	(ft)	nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 7.3 7.3 7.3 7.3 7.3 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction)	Cond. (uS/cm) 309.0 308.7 308.3 307.7 308.4 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TD:	D.O. (mg/L) 1.07 1.05 1.04 1.05 1.05 LLOWED PENWTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (PH-D)	6.12 6.12 6.12 6.12 6.12 6.12 6.12 6.12	ORP (mV) -21.2 -21.6 -22.2 -22.6 -21.9 TYPE (Circle ap (BTEX)) I-HCID) (8081)	#DIV/0! #DIV/0! plicable or write r (8141) (Oil & Gr	(ft)	nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.3 7.3 7.3 7.3 7.3 TYPICAL A (8260) (8010 (8270D) (PA (PH) (Conduction) (COD) (TOC) (Total Cyanidate)	Cond. (uS/cm) 309.0 308.7 308.3 307.7 308.4 NALYSIS AI (0) (8020) (N AH) (NWTPH (ctivity) (TD: (C) (Total PO- (le) (WAD Cy	D.O. (mg/L) 1.07 1.05 1.04 1.02 1.05 LLOWED PF NWTPH-G) (NWTP S) (TSS) (E 4) (Total Kie vanide) (Free	6.12 6.12 6.12 6.12 6.12 6.12 6.12 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPF BOD) (Turbio dahl Nitrogen Cyanide)	ORP (mV) -21.2 -21.6 -22.2 -22.6 -21.9 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write r (8141) (Oil & Gr (HCO3/CO3) (C	non-standard and ease)	malysis below) WA WA WA O WS NO2) (F)	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.3 7.3 7.3 7.3 7.3 TYPICAL A (8260) (8010 (8270D) (PA (PH) (Conduction) (COD) (TOC) (Total Cyanidate)	Cond. (uS/cm) 309.0 308.7 308.3 307.7 308.4 NALYSIS AI (0) (8020) (N AH) (NWTPH (ctivity) (TD: (C) (Total PO- (le) (WAD Cy	D.O. (mg/L) 1.07 1.05 1.04 1.02 1.05 LLOWED PF NWTPH-G) (NWTP S) (TSS) (E 4) (Total Kie vanide) (Free	6.12 6.12 6.12 6.12 6.12 6.12 6.12 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPF BOD) (Turbio dahl Nitrogen Cyanide)	ORP (mV) -21.2 -21.6 -22.2 -22.6 -21.9 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! plicable or write r (8141) (Oil & Gr	non-standard and ease)	malysis below) WA WA WA O WS NO2) (F)	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.3 7.3 7.3 7.3 7.3 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 309.0 308.7 308.3 307.7 308.4 NALYSIS AI (NWTPHotivity) (TD: (C) (Total PO- (de) (WAD Cy (de) (AS) (Sb) (etals) (AS) (Sb) (St)	D.O. (mg/L) 1.07 1.05 1.04 1.02 1.05 LLOWED PE NWTPH-G) (NWTP S) (TSS) (E 4) (Total Kier ranide) (Free Ba) (Be) (Ca	6.12 6.12 6.12 6.12 6.12 6.12 6.12 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -21.2 -21.6 -22.2 -22.6 -21.9 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write r (8141) (Oil & Gr (HCO3/CO3) (O	ease) Cl) (SO4) (NC	malysis below) WA WA OB ON	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.3 7.3 7.3 7.3 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 309.0 308.7 308.3 307.7 308.4 NALYSIS AI (0) (8020) (N AH) (NWTPHetivity) (TD: (1) (Total PO- (2) (AS) (Sb) ((etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.07 1.05 1.04 1.02 1.05 LOWED PENWTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cando) (Ba) (Be) (Cando) (Ba) (Be) (Cando)	6.12 6.12 6.12 6.12 6.12 6.12 6.12 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -21.2 -21.6 -22.2 -22.6 -21.9 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write r (8141) (Oil & Gr (HCO3/CO3) (O	ease) Cl) (SO4) (NC	malysis below) WA WA OB ON	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.3 7.3 7.3 7.3 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 309.0 308.7 308.3 307.7 308.4 NALYSIS AI (NWTPHotivity) (TD: (C) (Total PO- (de) (WAD Cy (de) (AS) (Sb) (etals) (AS) (Sb) (St)	D.O. (mg/L) 1.07 1.05 1.04 1.02 1.05 LOWED PENWTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cando) (Ba) (Be) (Cando) (Ba) (Be) (Cando)	6.12 6.12 6.12 6.12 6.12 6.12 6.12 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -21.2 -21.6 -22.2 -22.6 -21.9 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write r (8141) (Oil & Gr (HCO3/CO3) (O	ease) Cl) (SO4) (NC	malysis below) WA WA OB ON	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.3 7.3 7.3 7.3 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 309.0 308.7 308.3 307.7 308.4 NALYSIS AI (0) (8020) (N AH) (NWTPHetivity) (TD: (1) (Total PO- (2) (As) (Sb) ((etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.07 1.05 1.04 1.02 1.05 LOWED PENWTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cando) (Ba) (Be) (Cando) (Ba) (Be) (Cando)	6.12 6.12 6.12 6.12 6.12 6.12 6.12 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -21.2 -21.6 -22.2 -22.6 -21.9 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write r (8141) (Oil & Gr (HCO3/CO3) (O	ease) Cl) (SO4) (NC	malysis below) WA WA OB ON	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.3 7.3 7.3 7.3 7.3 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 309.0 308.7 308.3 307.7 308.4 NALYSIS AI (0) (8020) (N AH) (NWTPHetivity) (TD: (1) (Total PO- (2) (As) (Sb) ((etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.07 1.05 1.04 1.02 1.05 LOWED PENWTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cando) (Ba) (Be) (Cando) (Ba) (Be) (Cando)	6.12 6.12 6.12 6.12 6.12 6.12 6.12 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -21.2 -21.6 -22.2 -22.6 -21.9 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write r (8141) (Oil & Gr (HCO3/CO3) (O	ease) Cl) (SO4) (NC	malysis below) WA WA OB ON	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.3 7.3 7.3 7.3 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 309.0 308.7 308.3 307.7 308.4 NALYSIS AI (0) (8020) (N AH) (NWTPHetivity) (TD: (1) (Total PO- (2) (As) (Sb) ((etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.07 1.05 1.04 1.02 1.05 LOWED PENWTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cando) (Ba) (Be) (Cando) (Ba) (Be) (Cando)	6.12 6.12 6.12 6.12 6.12 6.12 6.12 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -21.2 -21.6 -22.2 -22.6 -21.9 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write r (8141) (Oil & Gr (HCO3/CO3) (O	ease) Cl) (SO4) (NC	malysis below) WA WA OB ON	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.3 7.3 7.3 7.3 7.3 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 309.0 308.7 308.3 307.7 308.4 NALYSIS AI (0) (8020) (N AH) (NWTPHetivity) (TD: (1) (Total PO- (2) (As) (Sb) ((etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.07 1.05 1.04 1.02 1.05 LOWED PENWTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cando) (Ba) (Be) (Cando) (Ba) (Be) (Cando)	6.12 6.12 6.12 6.12 6.12 6.12 6.12 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -21.2 -21.6 -22.2 -22.6 -21.9 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write r (8141) (Oil & Gr (HCO3/CO3) (O	ease) Cl) (SO4) (NC	malysis below) WA WA OB ON	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.3 7.3 7.3 7.3 7.3 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 309.0 308.7 308.3 307.7 308.4 NALYSIS AI (0) (8020) (N AH) (NWTPHetivity) (TD: (1) (Total PO- (2) (As) (Sb) ((etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.07 1.05 1.04 1.02 1.05 LOWED PENWTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cando) (Ba) (Be) (Cando) (Ba) (Be) (Cando)	6.12 6.12 6.12 6.12 6.12 6.12 6.12 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -21.2 -21.6 -22.2 -22.6 -21.9 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write r (8141) (Oil & Gr (HCO3/CO3) (O	ease) Cl) (SO4) (NC	malysis below) WA WA OB ON	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3 Duplicate Sar	Temp (°F/°C) 7.3 7.3 7.3 7.3 7.3 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 309.0 308.7 308.3 307.7 308.4 NALYSIS AI (0) (8020) (N AH) (NWTPHetivity) (TD: (1) (Total PO- (2) (As) (Sb) ((etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.07 1.05 1.04 1.02 1.05 LOWED PENWTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cando) (Ba) (Be) (Cando) (Ba) (Be) (Cando)	6.12 6.12 6.12 6.12 6.12 6.12 6.12 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -21.2 -21.6 -22.2 -22.6 -21.9 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write r (8141) (Oil & Gr (HCO3/CO3) (O	ease) Cl) (SO4) (NC	malysis below) WA WA OB ON	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	e:	Boeing Ren	ton		Project Numbe	er <u>:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 23 /2022@	1207		
Sample Num	nber:	RGW189S-	220223		Weather:	SUNNY 40'S			
Landau Repi	resentative:								
WATER LEV	EL/WELL/PU	RGE DATA							
Well Condition		Secure (YES)	Damaged (N	O)	Describe:	FLUSHMOUN	Т	
DTW Before		6.39	Time:		Flow through ce		-	GW Meter No.(s	HERON 2
Begin Purge:			1140	End Purge:	_	2/ 23 /2022 @	1203	Gallons Purged:	0.25
Purge water d		Z/ 23 /2022	55-gal Drum	Ě	Storage Tank	Ground		SITE TREATMI	
i uige water u	isposed to.		55-gai Diuiii		Storage Talik	U Ground	Other	SITE TREATMI	ENTSTSTEM
Time	Temp (°F/°C)	Cond.	D.O.	pН	ORP (mV)	Turbidity (NTU)	DTW	Internal Purge	Comments/
Time		(uS/cm) ls: Stablizatio	(mg/L) on of Parame	ters for three	· /	dings within the fo	(ft) ollowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1143	9.9	197.4	0.51	6.09	64.1		6.49		
1146	9.3	181.2	0.53	6.06	55.6		6.49		
1149	9.1	176.5	0.52	6.11	47.2		6.49		
							. ———		
1152	8.8	166.8	0.54	6.13	44.1		6.49		
1155	8.4	155.3	0.53	6.18	39.1		6.49		
1158	8.6	150.1	0.51	6.22	30.1				
1201	8.6	147.7	0.53	6.23	27.8				
SAMPLE CO	LLECTION D	ATA							
Sample Collec	cted With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
	_		_						
Decon Proced	ure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
Decon Proced (By Numerica	_	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other			DI Water	_			
(By Numerica	l Order)	Other				_			
(By Numerica	l Order) iption (color, t	Other curbidity, odor	D.O.		NO LOW TURB	NO SHEEN Turbidity	DTW	Ferrous iron	Comments/
(By Numerical Sample Described Replicate	l Order) iption (color, t Temp (°F/°C)	Other curbidity, odor Cond. (uS/cm)	D.O. (mg/L)	NO COLOR	NO LOW TURB ORP (mV)	NO SHEEN	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
(By Numerical Sample Descr	l Order) iption (color, t	Other curbidity, odor	D.O.	NO COLOR	NO LOW TURB	NO SHEEN Turbidity			
(By Numerical Sample Described Replicate	l Order) iption (color, t Temp (°F/°C)	Other curbidity, odor Cond. (uS/cm)	D.O. (mg/L)	NO COLOR	NO LOW TURB ORP (mV)	NO SHEEN Turbidity			
(By Numerical Sample Described Replicate	l Order) iption (color, t Temp (°F/°C) 8.7	Other curbidity, odor Cond. (uS/cm) 147.1	D.O. (mg/L)	NO COLOR pH 6.23	NO LOW TURB ORP (mV) 26.3	NO SHEEN Turbidity			
(By Numerical Sample Description Replicate 1 2	l Order) iption (color, 1 Temp (°F/°C) 8.7 8.7	Cond. (uS/cm) 147.1	D.O. (mg/L) 0.51 0.52	NO COLOR pH 6.23 6.23	ORP (mV) 26.3 26.1	NO SHEEN Turbidity			
Replicate 1 2 3 4	l Order) iption (color, 1) Temp (°F/°C) 8.7 8.7 8.7	Cond. (uS/cm) 147.1 146.7 146.3	D.O. (mg/L) 0.51 0.52 0.52	PH 6.23 6.23 6.23 6.25	ORP (mV) 26.3 26.1 24.1 22.3	NO SHEEN Turbidity (NTU)			
(By Numerical Sample Description Replicate 1 2 3 4 Average:	l Order) iption (color, 1 Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7	Cond. (uS/cm) 147.1 146.7 146.8	D.O. (mg/L) 0.51 0.52 0.52 0.51 0.52	PH 6.23 6.23 6.23 6.25 6.24	ORP (mV) 26.3 26.1 24.1 22.3	NO SHEEN Turbidity (NTU) #DIV/0!	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	l Order) iption (color, 1 Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 TYPICAL A	Cond. (uS/cm) 147.1 146.7 146.3 146.8	D.O. (mg/L) 0.51 0.52 0.52 0.52 LOWED PE	PH 6.23 6.23 6.23 6.25 6.24 CR BOTTLE	ORP (mV) 26.3 26.1 24.1 22.3 24.7 TYPE (Circle ap	NO SHEEN Turbidity (NTU)	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	l Order) iption (color, 1 Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 7 8.7 8.7	Cond. (uS/cm) 147.1 146.7 146.3 146.8 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.51 0.52 0.52 0.52 0.52 LOWED PE	PH 6.23 6.23 6.23 6.25 6.24 CR BOTTLE NWTPH-GX	ORP (mV) 26.3 26.1 24.1 22.3 24.7 TYPE (Circle aport (BTEX)	Turbidity (NTU) #DIV/0! oplicable or write	(ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 8.7 8.7 (8260) (8010) (8270D) (PA	Cond. (uS/cm) 147.1 146.7 146.3 146.8 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.51 0.52 0.52 0.52 0.52 UCOWED PE	PH 6.23 6.23 6.23 6.25 6.24 CR BOTTLE NWTPH-GX; PH-Dx) (TPF	ORP (mV) 26.3 26.1 24.1 22.3 24.7 TYPE (Circle aport	Turbidity (NTU) #DIV/0! pplicable or write (8141) (Oil & G	non-standard an	(Fe II) nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average: QUANTITY 14 6	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 8.7 (8260) (8010) (8270D) (PA) (pH) (Conduction)	Cond. (uS/cm) 147.1 146.7 146.3 146.8 NALYSIS AI 0) (8020) (NaH) (NWTPHetivity) (TDS)	D.O. (mg/L) 0.51 0.52 0.52 0.51 0.52 LOWED PE WTPH-G) (NWTP S) (TSS) (B	PH 6.23 6.23 6.23 6.25 6.24 CR BOTTLE NWTPH-GX; H-Dx) (TPF	ORP (mV) 26.3 26.1 24.1 22.3 24.7 TYPE (Circle ap (BTEX)) I-HCID) (8081) dity) (Alkalinity)	#DIV/0! #DIV/0! (8141) (Oil & G.) (HCO3/CO3) (6	non-standard an	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 8.7 (8260) (8010) (8270D) (PAC) (pH) (Conduction) (TOO)	Cond. (uS/cm) 147.1 146.7 146.3 146.8 NALYSIS AI (b) (8020) (N CH) (NWTPH (ctivity) (TDS) (C) (Total PO2	D.O. (mg/L) 0.51 0.52 0.52 0.51 0.52 LOWED PE JWTPH-G) (NWTP S) (TSS) (B	PH 6.23 6.23 6.23 6.25 6.24 CR BOTTLE NWTPH-Gx CH-Dx) (TPH-COD) (Turbic dahl Nitroger	ORP (mV) 26.3 26.1 24.1 22.3 24.7 TYPE (Circle aport	#DIV/0! #DIV/0! (8141) (Oil & G.) (HCO3/CO3) (6	non-standard an	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 14 6	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 8.7 (8260) (8010) (8270D) (PA) (COD) (TOO) (TOO) (Total Cyanid	Other curbidity, odor Cond. (uS/cm) 147.1 146.7 146.3 146.8 NALYSIS AI () (8020) (N AH) (NWTPHetivity) (TDS (C) (Total PO4 e) (WAD Cy	D.O. (mg/L) 0.51 0.52 0.52 0.52 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie anide) (Free	PH 6.23 6.23 6.23 6.25 6.24 CR BOTTLE NWTPH-GX H-Dx) (TPH OD) (Turbid dahl Nitroger Cyanide)	ORP (mV) 26.3 26.1 24.1 22.3 24.7 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3)	#DIV/0! #DIV/0! (8141) (Oil & G.) (HCO3/CO3) (6	non-standard and rease)	(Fe II) nalysis below) WA WA Solution W	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 14 6	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 8.7 (8260) (8010) (8270D) (PA) (COD) (Total Cyanid (Total Metals)	Other surbidity, odor Cond. (uS/cm) 147.1 146.7 146.3 146.8 NALYSIS AI O) (8020) (N CH) (NWTPHetivity) (TDS C) (Total PO2 e) (WAD Cy o) (As) (Sb) (D.O. (mg/L) 0.51 0.52 0.52 0.52 0.52 VWTPH-G) (NWTPH	PH 6.23 6.23 6.23 6.24 CR BOTTLE NWTPH-GX H-Dx) (TPH COD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 26.3 26.1 24.1 22.3 24.7 TYPE (Circle aportion (BTEX)) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard arrease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 14 6	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 8.7 (8260) (8010) (8270D) (PA) (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 147.1 146.7 146.3 146.8 NALYSIS AI 0) (8020) (N H) (NWTPHetivity) (TDS C) (Total PO2 e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.51 0.52 0.52 0.52 0.52 VWTPH-G) (NWTPH	PH 6.23 6.23 6.23 6.24 CR BOTTLE NWTPH-GX H-Dx) (TPH COD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 26.3 26.1 24.1 22.3 24.7 TYPE (Circle aportion (BTEX)) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard arrease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 14 6	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M-	Cond. (uS/cm) 147.1 146.7 146.3 146.8 NALYSIS AI 0) (8020) (N H) (NWTPHetivity) (TDS C) (Total PO2 e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.51 0.52 0.52 0.51 0.52 LOWED PE WTPH-G) (M-D) (NWTP S) (TSS) (B 4) (Total Kie anide) (Free Ba) (Be) (Ca	PH 6.23 6.23 6.23 6.24 CR BOTTLE NWTPH-GX H-Dx) (TPH COD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 26.3 26.1 24.1 22.3 24.7 TYPE (Circle aportion (BTEX)) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard arrease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 14 6	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M-	Cond. (uS/cm) 147.1 146.7 146.3 146.8 NALYSIS AI O) (8020) (N CH) (NWTPHetivity) (TDS C) (Total PO- e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.51 0.52 0.52 0.51 0.52 LOWED PE WTPH-G) (M-D) (NWTP S) (TSS) (B 4) (Total Kie anide) (Free Ba) (Be) (Ca	PH 6.23 6.23 6.23 6.24 CR BOTTLE NWTPH-GX H-Dx) (TPH COD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 26.3 26.1 24.1 22.3 24.7 TYPE (Circle aportion (BTEX)) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard arrease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 14 6	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 8.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 147.1 146.7 146.3 146.8 NALYSIS AI O) (8020) (N CH) (NWTPHetivity) (TDS C) (Total PO- e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.51 0.52 0.52 0.51 0.52 LOWED PE WTPH-G) (M-D) (NWTP S) (TSS) (B 4) (Total Kie anide) (Free Ba) (Be) (Ca	PH 6.23 6.23 6.23 6.24 CR BOTTLE NWTPH-GX H-Dx) (TPH COD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 26.3 26.1 24.1 22.3 24.7 TYPE (Circle aportion (BTEX)) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard arrease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 14 6	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M-	Cond. (uS/cm) 147.1 146.7 146.3 146.8 NALYSIS AI O) (8020) (N CH) (NWTPHetivity) (TDS C) (Total PO- e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.51 0.52 0.52 0.51 0.52 LOWED PE WTPH-G) (M-D) (NWTP S) (TSS) (B 4) (Total Kie anide) (Free Ba) (Be) (Ca	PH 6.23 6.23 6.23 6.24 CR BOTTLE NWTPH-GX H-Dx) (TPH COD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 26.3 26.1 24.1 22.3 24.7 TYPE (Circle aportion (BTEX)) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard arrease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 14 6	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 8.7 8.7 (8260) (8010) (8270D) (PA (COD) (Total Cyanid (Total Metals) (Dissolved Methane Etherothere) Others	Cond. (uS/cm) 147.1 146.7 146.3 146.8 NALYSIS AI O) (8020) (N CH) (NWTPHetivity) (TDS C) (Total PO- e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.51 0.52 0.52 0.52 0.52 VWTPH-G) (NWTPH	PH 6.23 6.23 6.23 6.24 CR BOTTLE NWTPH-GX H-Dx) (TPH COD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 26.3 26.1 24.1 22.3 24.7 TYPE (Circle aportion (BTEX)) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard arrease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 14 6	Temp (°F/°C) 8.7 8.7 8.7 8.7 8.7 8.7 8.7 (8260) (8010) (8270D) (PA (COD) (Total Cyanid (Total Metals) (Dissolved Methane Etherothere) Others	Cond. (uS/cm) 147.1 146.7 146.3 146.8 NALYSIS AI (WAD Cy (WAD Cy (WAD Cy (WAS) (Sb) (etals) (As) (Sb) (ane Ethene Ac	D.O. (mg/L) 0.51 0.52 0.52 0.52 0.52 VWTPH-G) (NWTPH	PH 6.23 6.23 6.23 6.24 CR BOTTLE NWTPH-GX H-Dx) (TPH COD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 26.3 26.1 24.1 22.3 24.7 TYPE (Circle aportion (BTEX)) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G./NO2) (Pb) (Mg) (Mn) (non-standard arrease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR



Project Name	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 23 /2022@	959		
Sample Num	nber:	RGW207S-	220223		Weather:	SUNNY 40'S			
Landau Repr	resentative:	AHA							
WATER LEV	EL/WELL/PU	IRGE DATA							
Well Conditio	n:	Secure (YES)	Damaged (N	(O)	Describe:	FLUSHMOUN	T	
DTW Before I	Purging (ft)	6.49	Time:	933	Flow through cel	ll vol.		GW Meter No.(s	HERON 2
Begin Purge:		2/ 23/2022 @	935	End Purge:	_	2/ 23 /2022 @	957	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATMI	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	pm	(mV)	(NTU)	(ft)	Volume (gal)	Observations
	_					dings within the fo	~	>/= 1 flow	
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
938	9.4	342.5	3.64	7.08	105.8		6.45		
941	9.1	330.3	2.22	6.78	97.2		6.45		
944	9.2	327.2	1.59	6.62	90.5		6.45		
947	8.9	322.8	1.51	6.58	87.2		6.45		
950	8.9	320.7	1.45	6.56	85.1		6.45		
953	8.9	319.7	1.47	6.55	82.9				
933	0.9	319.7	1.4/	0.55	62.9		· 		
							· 		
SAMPLE CO			D :1		D /D T	DI ADDED			
Sample Collec	cted With:		Bailer	_	Pump/Pump Type	_		— D ! 1	
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Was	sh 📙	Tap Rinse	DI Water	Dedicated			
(By Numerica)									
	ŕ	Other	1 ()	No cor on	LOW TUDD N	ODOR NO GUE	EN		
	ŕ	-	, sheen, etc.):	NO COLOR	, LOW TURB, NO	O ODOR, NO SHE	EN		
Sample Descri	ŕ	-	D.O.	NO COLOR	, LOW TURB, NO	O ODOR, NO SHE	EN DTW	Ferrous iron	Comments/
	iption (color, t	turbidity, odor						Ferrous iron (Fe II)	Comments/ Observations
Sample Descri	iption (color, t	turbidity, odor	D.O.		ORP	Turbidity	DTW		
Sample Descri	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 8.9	Cond. (uS/cm) 319.9	D.O. (mg/L) 1.48	pH 6.56 6.55	ORP (mV) 82.8 81.7	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 8.9 8.8	Cond. (uS/cm) 319.9 318.7	D.O. (mg/L) 1.48 1.48	pH 6.56 6.55 6.55	ORP (mV) 82.8 81.7 81.4	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 8.9 8.8 8.8	Cond. (uS/cm) 319.9 318.7 318.7	D.O. (mg/L) 1.48 1.48 1.52	pH 6.56 6.55 6.55 6.55	ORP (mV) 82.8 81.7 81.4 81.1	Turbidity (NTU)	DTW		
Replicate 1 2 3	Temp (°F/°C) 8.9 8.8	Cond. (uS/cm) 319.9 318.7	D.O. (mg/L) 1.48 1.48	pH 6.56 6.55 6.55	ORP (mV) 82.8 81.7 81.4	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.9 8.8 8.8 8.8	Cond. (uS/cm) 319.9 318.7 318.7 318.7 319.0	D.O. (mg/L) 1.48 1.48 1.52 1.52	pH 6.56 6.55 6.55 6.55 6.55	ORP (mV) 82.8 81.7 81.4 81.1 81.8	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.9 8.8 8.8 8.9 TYPICAL A' (8260) (8010	Cond. (uS/cm) 319.9 318.7 318.7 318.7 319.0 NALYSIS AI	D.O. (mg/L) 1.48 1.48 1.52 1.52 1.50 LOWED PE	6.56 6.55 6.55 6.55 6.55 RBOTTLE	82.8 81.7 81.4 81.1 81.8 TYPE (Circle ap	Turbidity (NTU) #DIV/0!	DTW (ft)	nalysis below)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.9 8.8 8.8 8.9 TYPICAL A (8260) (8010)	Cond. (uS/cm) 319.9 318.7 318.7 319.0 NALYSIS AI O) (8020) (NAH) (NWTPH	D.O. (mg/L) 1.48 1.48 1.52 1.50 LOWED PE	6.56 6.55 6.55 6.55 6.55 RR BOTTLE NWTPH-Gx;	82.8 81.7 81.4 81.1 81.8 TYPE (Circle ap) (BTEX)	#DIV/0!	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.9 8.8 8.8 8.8 8.9 TYPICAL A (8260) (8010 (8270D) (PA	Cond. (uS/cm) 319.9 318.7 318.7 318.7 319.0 NALYSIS AI (b) (8020) (NALYSIS AI (c) (NWTPHactivity) (TD:	D.O. (mg/L) 1.48 1.48 1.52 1.52 1.50 LOWED PENWTPH-G) (NWTP S) (TSS) (B	6.56 6.55 6.55 6.55 CR BOTTLE NWTPH-Gx H-Dx) (TPF	82.8 81.7 81.4 81.1 81.8 TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity)	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Grother (HCO3/CO3) (0)	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.9 8.8 8.8 8.9 TYPICAL A' (8260) (8010) (8270D) (PA' (pH) (Conduction) (TOO	Cond. (uS/cm) 319.9 318.7 318.7 318.7 319.0 NALYSIS AI (b) (8020) (N (c) (NWTPH (c) (Total PO-	D.O. (mg/L) 1.48 1.48 1.52 1.52 1.50 LOWED PENTTH-G) (M-D) (NWTP-S) (TSS) (B4) (Total Kie	6.56 6.55 6.55 6.55 6.55 R BOTTLE NWTPH-Gx H-Dx) (TPH-DX) (TPH-DX) (TPH-DA) (Turbio dahl Nitroger	82.8 81.7 81.4 81.1 81.8 TYPE (Circle ap) (BTEX)	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Grother (HCO3/CO3) (0)	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.9 8.8 8.8 8.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid	Cond. (uS/cm) 319.9 318.7 318.7 318.7 319.0 NALYSIS AI (D) (8020) (N AH) (NWTPH (ctivity) (TD) (C) (Total PO-4 (e) (WAD Cy	D.O. (mg/L) 1.48 1.48 1.52 1.52 1.50 LOWED PE WTPH-G) (NWTP S) (TSS) (E 4) (Total Kie ranide) (Free	pH 6.56 6.55 6.55 6.55 CR BOTTLE NWTPH-Gx; PH-Dx) (TPH-GOD) (Turbid dahl Nitroger Cyanide)	ORP (mV) 82.8 81.7 81.4 81.1 81.8 TYPE (Circle ap (BTEX) H-HCID) (8081) dity) (Alkalinity) a) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write: (8141) (Oil & Grove (HCO3/CO3) (Oil NO2)	DTW (ft) non-standard and arease) CI) (SO4) (NO	malysis below) WA WA WA ONE OF THE	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.9 8.8 8.8 8.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 319.9 318.7 318.7 318.7 319.0 NALYSIS AI O) (8020) (N AH) (NWTPH detivity) (TD: C) (Total PO- e) (WAD Cy o) (As) (Sb) (D.O. (mg/L) 1.48 1.48 1.52 1.52 1.50 LOWED PE WYTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.56 6.55 6.55 6.55 CR BOTTLE NWTPH-GX, H-DX) (TPF COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 82.8 81.7 81.4 81.1 81.8 TYPE (Circle ap (BTEX)) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grove (HCO3/CO3) (Or NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.9 8.8 8.8 8.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 319.9 318.7 318.7 318.7 319.0 NALYSIS AI (NWTPHICTIVITY) (TD: (C) (Total PO- (e) (WAD Cy (das) (Sb) (etals) (As) (Sb) (stals) (As) (Sb) (stals)	D.O. (mg/L) 1.48 1.48 1.52 1.52 1.50 LOWED PE WYTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.56 6.55 6.55 6.55 CR BOTTLE NWTPH-GX, H-DX) (TPF COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 82.8 81.7 81.4 81.1 81.8 TYPE (Circle ap (BTEX)) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grove (HCO3/CO3) (Or NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.9 8.8 8.8 8.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 319.9 318.7 318.7 318.7 319.0 NALYSIS AI (NWTPHICTIVITY) (TD: (C) (Total PO- (e) (WAD Cy (das) (Sb) (etals) (As) (Sb) (stals) (As) (Sb) (stals)	D.O. (mg/L) 1.48 1.48 1.52 1.52 1.50 LOWED PENWTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cando) (Ba) (Be) (Cando) (Ba) (Be) (Cando)	6.56 6.55 6.55 6.55 CR BOTTLE NWTPH-GX, H-DX) (TPF COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 82.8 81.7 81.4 81.1 81.8 TYPE (Circle ap (BTEX)) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grove (HCO3/CO3) (Or NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.9 8.8 8.8 8.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 319.9 318.7 318.7 318.7 319.0 NALYSIS AI (b) (8020) (N (c) (Total PO- (c) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.48 1.48 1.52 1.52 1.50 LOWED PENWTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cando) (Ba) (Be) (Cando) (Ba) (Be) (Cando)	6.56 6.55 6.55 6.55 CR BOTTLE NWTPH-GX, H-DX) (TPF COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 82.8 81.7 81.4 81.1 81.8 TYPE (Circle ap (BTEX)) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grove (HCO3/CO3) (Or NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.9 8.8 8.8 8.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 319.9 318.7 318.7 318.7 319.0 NALYSIS AI (b) (8020) (N (c) (Total PO- (c) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.48 1.48 1.52 1.52 1.50 LOWED PENWTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cando) (Ba) (Be) (Cando) (Ba) (Be) (Cando)	6.56 6.55 6.55 6.55 CR BOTTLE NWTPH-GX, H-DX) (TPF COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 82.8 81.7 81.4 81.1 81.8 TYPE (Circle ap (BTEX)) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grove (HCO3/CO3) (Or NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.9 8.8 8.8 8.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 319.9 318.7 318.7 318.7 319.0 NALYSIS AI (b) (8020) (N (c) (Total PO- (c) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.48 1.48 1.52 1.52 1.50 LOWED PENWTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cando) (Ba) (Be) (Cando) (Ba) (Be) (Cando)	6.56 6.55 6.55 6.55 CR BOTTLE NWTPH-GX, H-DX) (TPF COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 82.8 81.7 81.4 81.1 81.8 TYPE (Circle ap (BTEX)) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grove (HCO3/CO3) (Or NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.9 8.8 8.8 8.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 319.9 318.7 318.7 318.7 319.0 NALYSIS AI (b) (8020) (N (c) (Total PO- (c) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.48 1.48 1.52 1.52 1.50 LOWED PENWTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cando) (Ba) (Be) (Cando) (Ba) (Be) (Cando)	6.56 6.55 6.55 6.55 CR BOTTLE NWTPH-GX, H-DX) (TPF COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 82.8 81.7 81.4 81.1 81.8 TYPE (Circle ap (BTEX)) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grove (HCO3/CO3) (Or NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3 Duplicate Sam	Temp (°F/°C) 8.9 8.8 8.8 8.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 319.9 318.7 318.7 318.7 319.0 NALYSIS AI (b) (8020) (N (c) (Total PO- (c) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.48 1.48 1.52 1.52 1.50 LOWED PENWTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cando) (Ba) (Be) (Cando) (Ba) (Be) (Cando)	6.56 6.55 6.55 6.55 CR BOTTLE NWTPH-GX, H-DX) (TPF COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 82.8 81.7 81.4 81.1 81.8 TYPE (Circle ap (BTEX)) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grove (HCO3/CO3) (Or NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.9 8.8 8.8 8.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 319.9 318.7 318.7 318.7 319.0 NALYSIS AI (b) (8020) (N (c) (Total PO- (c) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.48 1.48 1.52 1.52 1.50 LOWED PENWTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cando) (Ba) (Be) (Cando) (Ba) (Be) (Cando)	6.56 6.55 6.55 6.55 CR BOTTLE NWTPH-GX, H-DX) (TPF COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 82.8 81.7 81.4 81.1 81.8 TYPE (Circle ap (BTEX)) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grove (HCO3/CO3) (Or NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO Ni) (Ag) (Se) (TI) (V	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ne:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 23 /2022@	1111		
Sample Nun	nber:	RGW208S-	220223		Weather:	SUNNY 40'S			
Landau Rep	resentative:								
WATERIEV	/EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES)	Damaged (N	(O)	Describe:	FLUSHMOUN	Т	
		•		•	,		TEOSIMOON		HERONIA
DTW Before	0 0 0	7.74	Time:		Flow through cel	•		GW Meter No.(s	
	Date/Time:			End Purge:		2/ 23 /2022 @		Gallons Purged:	0.25
Purge water d	lisposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATMI	ENT SYSTEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	` /	` '		ters for three	` /	dings within the fo	` '	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1051	8.9	397.7	0.61	6.40	92.9		7.71		
1054	8.2	385.8	0.64	6.39	87.5		7.71		
							-		
1057	7.2	365.5	0.44	6.38	81.5		7.71		
1100	6.7	354.7	0.51	6.37	79.4	,	7.72		
1103	6.5	344.6	0.47	6.36	76.5				
					<u></u>				
	LLECTION D								
Sample Colle	cted With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	dure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	-1 O. J)	—							
, Ly I willer icu	u Oraer)	Other							
, -			, sheen, etc.):	NO COLOR	, LOW TURB, NO	O ODOR, NO SHE	EN SMALL PAF	RTICULATES	
, -			, sheen, etc.):	NO COLOR	, LOW TURB, NO	O ODOR, NO SHE	EN SMALL PAF	RTICULATES	
, -	Temp	turbidity, odor	D.O.	NO COLOR	ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr	ription (color,	turbidity, odor	· -						Comments/ Observations
Sample Descr	Temp	turbidity, odor	D.O.		ORP	Turbidity	DTW	Ferrous iron	
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW	Ferrous iron	
Replicate 1 2	Temp (°F/°C) 6.5	Cond. (uS/cm) 343.2	D.O. (mg/L) 0.51	рН 6.36 6.35	ORP (mV) 76.2	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3	Temp (°F/°C) 6.5 6.5	Cond. (uS/cm) 343.2 342.9	D.O. (mg/L) 0.51 0.52	pH 6.36 6.35 6.35	ORP (mV) 76.2 76.1 75.9	Turbidity	DTW	Ferrous iron	
Replicate 1 2	Temp (°F/°C) 6.5	Cond. (uS/cm) 343.2	D.O. (mg/L) 0.51	рН 6.36 6.35	ORP (mV) 76.2	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3	Temp (°F/°C) 6.5 6.5	Cond. (uS/cm) 343.2 342.9	D.O. (mg/L) 0.51 0.52	pH 6.36 6.35 6.35	ORP (mV) 76.2 76.1 75.9	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.5 6.5 6.5 6.5	Cond. (uS/cm) 343.2 342.9 341.2 342.6	D.O. (mg/L) 0.51 0.52 0.53 0.53	6.36 6.35 6.35 6.36 6.36	ORP (mV) 76.2 76.1 75.9 75.6 76.0	Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	
Replicate 1 2 3 4	Temp (°F/°C) 6.5 6.5 6.5 6.5	Cond. (uS/cm) 343.2 343.2 342.9 341.2 342.6	D.O. (mg/L) 0.51 0.52 0.53 0.53 0.52	6.36 6.35 6.36 6.36 6.36 CR BOTTLE	ORP (mV) 76.2 76.1 75.9 75.6 76.0 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.5 6.5 6.5 6.5 7YPICAL A (8260) (8010	Cond. (uS/cm) 343.2 342.9 341.2 342.6 NALYSIS AI	D.O. (mg/L) 0.51 0.52 0.53 0.53 0.52 LOWED PE	6.36 6.35 6.36 6.36 CR BOTTLE	ORP (mV) 76.2 76.1 75.9 75.6 76.0 TYPE (Circle apo) (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.5 6.5 6.5 6.5 7YPICAL A (8260) (8010) (8270D) (PA	Cond. (uS/cm) 343.2 343.2 342.9 341.2 342.6 NALYSIS AI O) (8020) (NAH) (NWTPH	D.O. (mg/L) 0.51 0.52 0.53 0.53 0.52 LOWED PE	6.36 6.35 6.36 6.36 6.36 CR BOTTLE NWTPH-GX;	ORP (mV) 76.2 76.1 75.9 75.6 76.0 TYPE (Circle applement) (BTEX) H-HCID) (8081)	#DIV/0!	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) malysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.5 6.5 6.5 6.5 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 343.2 343.2 342.9 341.2 342.6 NALYSIS AI O) (8020) (N AH) (NWTPHetivity) (TD:	D.O. (mg/L) 0.51 0.52 0.53 0.53 0.52 LOWED PENWTPH-G) (M-D) (NWTP	6.36 6.35 6.36 6.36 6.36 CR BOTTLE (NWTPH-Gx) (PH-Dx) (TPH-GOD) (Turbic	ORP (mV) 76.2 76.1 75.9 75.6 76.0 TYPE (Circle applement) (BTEX) H-HCID) (8081)	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Grown (HCO3/CO3) (0)	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) malysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.5 6.5 6.5 6.5 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 343.2 343.2 342.9 341.2 342.6 NALYSIS AI (b) (8020) (N AH) (NWTPH detivity) (TD: (C) (Total PO-	D.O. (mg/L) 0.51 0.52 0.53 0.53 0.52 LOWED PENTTH-G) (M-D) (NWTPS) (TSS) (B4) (Total Kie	6.36 6.35 6.36 6.36 6.36 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-BOD) (Turbio dahl Nitroger	ORP (mV) 76.2 76.1 75.9 75.6 76.0 TYPE (Circle ap (BTEX)) H-HCID) (8081) dity) (Alkalinity)	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Grown (HCO3/CO3) (0)	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) malysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.5 6.5 6.5 6.5 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 343.2 343.2 342.9 341.2 342.6 NALYSIS AI O) (8020) (N AH) (NWTPH activity) (TD: C) (Total PO- de) (WAD Cy	D.O. (mg/L) 0.51 0.52 0.53 0.53 0.52 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free	pH 6.36 6.35 6.36 6.36 6.36 CR BOTTLE (NWTPH-GX) PH-Dx) (TPH-GX) CH-Dx) (Turbic dahl Nitroger Cyanide)	ORP (mV) 76.2 76.1 75.9 75.6 76.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity)	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Grown (HCO3/CO3) (0)	DTW (ft) non-standard and arrease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution	Observations OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.5 6.5 6.5 6.5 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 343.2 343.2 342.9 341.2 342.6 NALYSIS AI O) (8020) (N AH) (NWTPH detivity) (TD: C) (Total PO- e) (WAD Cy o) (As) (Sb) (D.O. (mg/L) 0.51 0.52 0.53 0.53 0.52 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie	6.36 6.35 6.36 6.36 6.36 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GX) (TUrbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 76.2 76.1 75.9 75.6 76.0 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/10) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (HCO3/CO3) (Or NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF O	Observations OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.5 6.5 6.5 6.5 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 343.2 343.2 342.9 341.2 342.6 NALYSIS AI (NWTPHetivity) (TD: (C) (Total PO- (e) (WAD Cy (e) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L) 0.51 0.52 0.53 0.53 0.52 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie	6.36 6.35 6.36 6.36 6.36 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GX) (TUrbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 76.2 76.1 75.9 75.6 76.0 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/10) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (HCO3/CO3) (Or NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.5 6.5 6.5 6.5 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 343.2 343.2 342.9 341.2 342.6 NALYSIS AI (NWTPHetivity) (TD: (C) (Total PO- (e) (WAD Cy (e) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L) 0.51 0.52 0.53 0.53 0.52 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Carbo) (Ba) (Be) (Carbo) (Ba) (Be) (Carbo)	6.36 6.35 6.36 6.36 6.36 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GX) (TUrbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 76.2 76.1 75.9 75.6 76.0 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/10) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (HCO3/CO3) (Or NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.5 6.5 6.5 6.5 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 343.2 343.2 342.9 341.2 342.6 NALYSIS AI () (8020) (N AH) (NWTPH (activity) (TD: (C) (Total PO- (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.51 0.52 0.53 0.53 0.52 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Carbo) (Ba) (Be) (Carbo) (Ba) (Be) (Carbo)	6.36 6.35 6.36 6.36 6.36 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GX) (TUrbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 76.2 76.1 75.9 75.6 76.0 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/10) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (HCO3/CO3) (Or NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.5 6.5 6.5 6.5 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 343.2 343.2 342.9 341.2 342.6 NALYSIS AI () (8020) (N AH) (NWTPH (activity) (TD: (C) (Total PO- (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.51 0.52 0.53 0.53 0.52 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Carbo) (Ba) (Be) (Carbo) (Ba) (Be) (Carbo)	6.36 6.35 6.36 6.36 6.36 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GX) (TUrbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 76.2 76.1 75.9 75.6 76.0 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/10) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (HCO3/CO3) (Or NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.5 6.5 6.5 6.5 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 343.2 343.2 342.9 341.2 342.6 NALYSIS AI () (8020) (N AH) (NWTPH (activity) (TD: (C) (Total PO- (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.51 0.52 0.53 0.53 0.52 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Carbo) (Ba) (Be) (Carbo) (Ba) (Be) (Carbo)	6.36 6.35 6.36 6.36 6.36 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GX) (TUrbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 76.2 76.1 75.9 75.6 76.0 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/10) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (HCO3/CO3) (Or NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.5 6.5 6.5 6.5 6.5 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 343.2 343.2 342.9 341.2 342.6 NALYSIS AI () (8020) (N AH) (NWTPH (activity) (TD: (C) (Total PO- (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.51 0.52 0.53 0.53 0.52 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Carbo) (Ba) (Be) (Carbo) (Ba) (Be) (Carbo)	6.36 6.35 6.36 6.36 6.36 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GX) (TUrbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 76.2 76.1 75.9 75.6 76.0 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/10) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (HCO3/CO3) (Or NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.5 6.5 6.5 6.5 6.5 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 343.2 343.2 342.9 341.2 342.6 NALYSIS AI () (8020) (N AH) (NWTPH (activity) (TD: (C) (Total PO- (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.51 0.52 0.53 0.53 0.52 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Carbo) (Ba) (Be) (Carbo) (Ba) (Be) (Carbo)	6.36 6.35 6.36 6.36 6.36 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GX) (TUrbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 76.2 76.1 75.9 75.6 76.0 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/10) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (HCO3/CO3) (Or NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.5 6.5 6.5 6.5 6.5 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 343.2 343.2 342.9 341.2 342.6 NALYSIS AI () (8020) (N AH) (NWTPH (activity) (TD: (C) (Total PO- (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.51 0.52 0.53 0.53 0.52 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Carbo) (Ba) (Be) (Carbo) (Ba) (Be) (Carbo)	6.36 6.35 6.36 6.36 6.36 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GX) (TUrbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 76.2 76.1 75.9 75.6 76.0 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/10) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (HCO3/CO3) (Or NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 21 /2022@	1407		
Sample Num	nber:	RGW211S-	220221		Weather:	SUNNY 50'S			
Landau Repr	resentative:	AHA							
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Conditio	n:	Secure (YES)	Damaged (N	(O)	Describe:	Flush Mount		
DTW Before I	Purging (ft)	8.12	Time:	1339	Flow through cel	ll vol.		GW Meter No.(s	SLOPE 2
Begin Purge:		2/ 21 /2022 (1342	End Purge:	Date/Time:	2/ 21 /2022 @	1405	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATMI	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	pm	(mV)	(NTU)	(ft)	Volume (gal)	Observations
	_					dings within the fo	~	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1345	9.1	387.8	0.72	6.46	102.2		7.96		
1348	10.9	223.7	0.29	6.68	45.7		7.98		
1351	10.0	201.3	0.27	6.63	32.8		7.99		
1354	9.7	200.1	0.29	6.63	32.3				
1357	9.6	194.8	0.28	6.63	32.6	-			
1337	9.0	194.6	0.28	0.03	32.0		· 	-	
							· 	-	
SAMPLE CO									
Sample Collec	cted With:		Bailer	_	Pump/Pump Type	_		_	
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(Dr. Marmonica									
	l Order)	Other							
	· ·	₩	, sheen, etc.):	BROWN, M	ED-HIGH TURB	, NO ODOR, NO S	HEEN		
Sample Descr	iption (color, t	turbidity, odor						Ferrous iron	Comments/
	· ·	₩	D.O. (mg/L)	BROWN, M	ED-HIGH TURB ORP (mV)	, NO ODOR, NO S Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	iption (color, t	turbidity, odor	D.O.		ORP	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.63	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate 1 2	Temp (°F/°C) 9.1	Cond. (uS/cm) 194.3	D.O. (mg/L) 0.26	pH 6.63 6.63	ORP (mV) 32.2 32.1	Turbidity	DTW		
Sample Descr Replicate 1 2 3	Temp (°F/°C) 9.1 9.2	Cond. (uS/cm) 194.3 193.4	D.O. (mg/L) 0.26 0.26	pH 6.63 6.63 6.63	ORP (mV) 32.2 32.1 32.1	Turbidity	DTW		
Sample Descr Replicate 1 2	Temp (°F/°C) 9.1	Cond. (uS/cm) 194.3	D.O. (mg/L) 0.26	pH 6.63 6.63	ORP (mV) 32.2 32.1	Turbidity	DTW		
Sample Descr Replicate 1 2 3	Temp (°F/°C) 9.1 9.2	Cond. (uS/cm) 194.3 193.4	D.O. (mg/L) 0.26 0.26	pH 6.63 6.63 6.63	ORP (mV) 32.2 32.1 32.1	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.1 9.2 9.4	Cond. (uS/cm) 194.3 193.4 192.8 192.4 193.2	D.O. (mg/L) 0.26 0.26 0.25 0.26	pH 6.63 6.63 6.63 6.63 6.63	ORP (mV) 32.2 32.1 32.1 32.2 32.2	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.2 9.4 9.2 TYPICAL A	Cond. (uS/cm) 194.3 193.4 192.8 192.4 193.2	D.O. (mg/L) 0.26 0.26 0.25 0.26 0.26	pH 6.63 6.63 6.63 6.63 6.63	ORP (mV) 32.2 32.1 32.1 32.2 32.2 TYPE (Circle ap	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.2 9.4 9.2 TYPICAL A (8260) (8010	Cond. (uS/cm) 194.3 193.4 192.8 192.4 193.2 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.26 0.26 0.25 0.26 0.26 LOWED PE	pH 6.63 6.63 6.63 6.63 6.63 CR BOTTLE NWTPH-GX	ORP (mV) 32.2 32.1 32.1 32.2 32.2 TYPE (Circle approximate) (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.2 9.4 9.2 TYPICAL A (8260) (8010 (8270) (PAF	Cond. (uS/cm) 194.3 193.4 192.8 192.4 193.2 NALYSIS AI 0) (8020) (NH) (NWTPH-	D.O. (mg/L) 0.26 0.25 0.26 0.26 0.26 LOWED PERMYPH-G) (NWTPH-G) (NWTPH-G)	6.63 6.63 6.63 6.63 6.63 R BOTTLE NWTPH-GX -Dx) (TPH-	ORP (mV) 32.2 32.1 32.1 32.2 32.2 TYPE (Circle aporture) (BTEX) HCID) (8081) (Turbidity (NTU) #DIV/0!	DTW (ft) non-standard an	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.1 9.2 9.4 9.2 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu	Cond. (uS/cm) 194.3 193.4 192.8 192.4 193.2 NALYSIS AI (0) (8020) (NH) (NWTPH- dictivity) (TD: (C) (Total PO-	D.O. (mg/L) 0.26 0.26 0.25 0.26 0.26 LOWED PERWITPH-G) (MWTPH-G) (MWTP	6.63 6.63 6.63 6.63 6.63 CR BOTTLE NWTPH-Gx DV (TPH-GX) DV (Turbio dahl Nitroger	ORP (mV) 32.2 32.1 32.1 32.2 32.2 TYPE (Circle aporture) (BTEX) HCID) (8081) (#DIV/0! #DIV/0! pplicable or write (MCO3/CO3) (MCO3/CO3) (MCO3/CO3)	DTW (ft) non-standard an	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.2 9.4 9.2 TYPICAL A' (8260) (8010) (8270) (PAF) (pH) (Condu	Cond. (uS/cm) 194.3 193.4 192.8 192.4 193.2 NALYSIS AI 0) (8020) (N H) (NWTPH- activity) (TD: activity) (TD: (C) (Total PO-	D.O. (mg/L) 0.26 0.26 0.25 0.26 0.26 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B d) (Total Kie anide) (Free	pH 6.63 6.63 6.63 6.63 CR BOTTLE NWTPH-GX 1-Dx) (TPH-10D) (Turbid dahl Nitroger Cyanide)	ORP (mV) 32.2 32.1 32.2 32.2 TYPE (Circle application (S081) (BTEX) HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Gre (HCO3/CO3) (O	DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA O WA O S) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.2 9.4 9.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 194.3 193.4 192.8 192.4 193.2 NALYSIS AI (2) (8020) (NH) (NWTPHactivity) (TDS) CC) (Total PO- lee) (WAD Cy) (As) (Sb) (D.O. (mg/L) 0.26 0.26 0.25 0.26 0.26 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie anide) (Free Ba) (Be) (Ca	6.63 6.63 6.63 6.63 6.63 CR BOTTLE NWTPH-GX 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 32.2 32.1 32.2 32.2 TYPE (Circle applement) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.2 9.4 9.2 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M.	Cond. (uS/cm) 194.3 193.4 192.8 192.4 193.2 NALYSIS AI 0) (8020) (NI) (NWTPH- lectivity) (TDS C) (Total PO4 (wAD Cy) (As) (Sb) (etals) (As) (Sb) (stals) (As) (Sb) (stals)	D.O. (mg/L) 0.26 0.26 0.25 0.26 0.26 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie anide) (Free Ba) (Be) (Ca	6.63 6.63 6.63 6.63 6.63 CR BOTTLE NWTPH-GX 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 32.2 32.1 32.2 32.2 TYPE (Circle applement) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.1 9.2 9.4 9.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 194.3 193.4 192.8 192.4 193.2 NALYSIS AI (NWTPH- activity) (TD: (C) (Total PO- de) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	D.O. (mg/L) 0.26 0.26 0.25 0.26 0.26 0.26 LOWED PERWITPH-G) (MWTPH-G)	6.63 6.63 6.63 6.63 6.63 CR BOTTLE NWTPH-GX 1-DX) (TPH-10D) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 32.2 32.1 32.2 32.2 TYPE (Circle applement) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.1 9.2 9.4 9.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 194.3 193.4 192.8 192.4 193.2 NALYSIS AI 0) (8020) (NI) (NWTPH- lectivity) (TDS C) (Total PO4 (wAD Cy) (As) (Sb) (etals) (As) (Sb) (stals) (As) (Sb) (stals)	D.O. (mg/L) 0.26 0.26 0.25 0.26 0.26 0.26 LOWED PERWITPH-G) (MWTPH-G)	6.63 6.63 6.63 6.63 6.63 CR BOTTLE NWTPH-GX 1-DX) (TPH-10D) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 32.2 32.1 32.2 32.2 TYPE (Circle applement) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.1 9.2 9.4 9.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 194.3 193.4 192.8 192.4 193.2 NALYSIS AI (NWTPH- activity) (TD: (C) (Total PO- de) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	D.O. (mg/L) 0.26 0.26 0.25 0.26 0.26 0.26 LOWED PERWITPH-G) (MWTPH-G)	6.63 6.63 6.63 6.63 6.63 CR BOTTLE NWTPH-GX 1-DX) (TPH-10D) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 32.2 32.1 32.2 32.2 TYPE (Circle applement) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 9.1 9.2 9.4 9.2 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 194.3 193.4 192.8 192.4 193.2 NALYSIS AI (NWTPH- activity) (TD: (C) (Total PO- de) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	D.O. (mg/L) 0.26 0.26 0.25 0.26 0.26 0.26 LOWED PERWITPH-G) (MWTPH-G)	6.63 6.63 6.63 6.63 6.63 CR BOTTLE NWTPH-GX 1-DX) (TPH-10D) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 32.2 32.1 32.2 32.2 TYPE (Circle applement) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 2	Temp (°F/°C) 9.1 9.2 9.4 9.2 TYPICAL A (8260) (8010 (8270) (PAH (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 194.3 193.4 192.8 192.4 193.2 NALYSIS AI (NWTPH- activity) (TD: (C) (Total PO- de) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	D.O. (mg/L) 0.26 0.26 0.25 0.26 0.26 0.26 LOWED PERWITPH-G) (MWTPH-G)	6.63 6.63 6.63 6.63 6.63 CR BOTTLE NWTPH-GX 1-DX) (TPH-10D) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 32.2 32.1 32.2 32.2 TYPE (Circle applement) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 2 Duplicate San	Temp (°F/°C) 9.1 9.2 9.4 9.2 TYPICAL A (8260) (8010 (8270) (PAH (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 194.3 193.4 192.8 192.4 193.2 NALYSIS AI (NWTPH- activity) (TD: (C) (Total PO- de) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	D.O. (mg/L) 0.26 0.26 0.25 0.26 0.26 0.26 LOWED PERWITPH-G) (MWTPH-G)	6.63 6.63 6.63 6.63 6.63 CR BOTTLE NWTPH-GX 1-DX) (TPH-10D) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 32.2 32.1 32.2 32.2 TYPE (Circle applement) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 2	Temp (°F/°C) 9.1 9.2 9.4 9.2 TYPICAL A (8260) (8010 (8270) (PAH (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 194.3 193.4 192.8 192.4 193.2 NALYSIS AI (NWTPH- activity) (TD: (C) (Total PO- de) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	D.O. (mg/L) 0.26 0.26 0.25 0.26 0.26 0.26 LOWED PERWITPH-G) (MWTPH-G)	6.63 6.63 6.63 6.63 6.63 CR BOTTLE NWTPH-GX 1-DX) (TPH-10D) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 32.2 32.1 32.2 32.2 TYPE (Circle applement) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ne <u>:</u>	Boeing Ren	ton		Project Number	<u>r:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 21 /2022@	1502		
Sample Nun	nber:	RGW221S-	220221		Weather:	40S SUNNY			
Landau Rep	resentative:	AHA/JAM							
WATER LEV	VEL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES)	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	9.03	Time:	- '	Flow through ce	ll vol		GW Meter No.(s	HERON 2
	Date/Time:		1436	End Purge:	_	2/ 21 /2022 @	1500	Gallons Purged:	
Purge water of		2/21 /2022	55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	
i uige water c	nsposed to.		55-gai Diuiii		Storage Talik	Ш Ground	Other	SHE IKEAIWI	ENTSTSTEM
Т:	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C) Purge Goal	(uS/cm) ls: Stablizatio	(mg/L) on of Parame	ters for three	(mV) e consecutive rea	(NTU) dings within the fo	(ft) ollowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1439	10.3	162.8	2.25	5.94	41.6		9.04		
1442	9.3	164.7	1.96	5.95	30.8		9.04		
1445		160.9	1.75	5.96	24.7		9.04		
1448	8.1	158.8	1.64	5.98	22.3		9.04		
1451	7.7	157.4	1.45	5.97	20.0		9.04		
1454	7.2	156.2	1.41	5.97	17.9		9.04		
1457	7.0	155.0	1.39	5.97	16.8		9.04		
						-			
SAMPLE CO	DLLECTION D	ΔΤΔ							
Sample Colle			Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene	Other	Dedicated	
			_		₩		U Ouner	Bedicated	
Decon Proced		Alconox Was	sn 📋	Tap Rinse	DI Water	Dedicated			
(By Numerica	ii Oraer)								
Comple Dece	mintion (color t	humbiditer adam	shoon ato).	I OW TUDD	IDITY CLEAD	NO/NC			
Sample Descri	ription (color, t	turbidity, odor	, sheen, etc.):	LOW TURB	IDITY, CLEAR,	NO/NS			
Sample Description Replicate	ription (color, t	turbidity, odor	, sheen, etc.):	LOW TURB	IDITY, CLEAR,	NO/NS Turbidity	DTW	Ferrous iron	Comments/
							DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
	Temp	Cond.	D.O.		ORP	Turbidity			
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 5.97	ORP (mV)	Turbidity			
Replicate 1 2	Temp (°F/°C) 6.7	Cond. (uS/cm) 155 154.8	D.O. (mg/L) 1.41	pH 5.97 5.97	ORP (mV) 16.6	Turbidity			
Replicate 1 2 3	Temp (°F/°C) 6.7 6.8	Cond. (uS/cm) 155 154.8	D.O. (mg/L) 1.41 1.40	pH 5.97 5.97 5.97	ORP (mV) 16.6 16.5	Turbidity			
Replicate 1 2	Temp (°F/°C) 6.7	Cond. (uS/cm) 155 154.8	D.O. (mg/L) 1.41	pH 5.97 5.97	ORP (mV) 16.6	Turbidity			
Replicate 1 2 3	Temp (°F/°C) 6.7 6.8	Cond. (uS/cm) 155 154.8	D.O. (mg/L) 1.41 1.40	pH 5.97 5.97 5.97	ORP (mV) 16.6 16.5	Turbidity			
Replicate 1 2 3 4	Temp (°F/°C) 6.7 6.8 6.8 6.8	Cond. (uS/cm) 155 154.8 154.8 154.6	D.O. (mg/L) 1.41 1.40 1.39 1.40	pH 5.97 5.97 5.97 5.97 5.97	ORP (mV) 16.6 16.5 16.4 16.3 16.5	Turbidity	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.7 6.8 6.8 6.8 7TYPICAL A	Cond. (uS/cm) 155 154.8 154.8 154.6	D.O. (mg/L) 1.41 1.40 1.39 1.40 LOWED PE	5.97 5.97 5.97 5.97 5.97 5.97	ORP (mV) 16.6 16.5 16.4 16.3 16.5 TYPE (Circle approximation of the companion of the	Turbidity (NTU)	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.7 6.8 6.8 6.8 7TYPICAL A (8260) (8010	Cond. (uS/cm) 155 154.8 154.6 154.8 NALYSIS AI	D.O. (mg/L) 1.41 1.40 1.39 1.40 LOWED PE	5.97 5.97 5.97 5.97 5.97 5.97 ER BOTTLE NWTPH-Gx	ORP (mV) 16.6 16.5 16.4 16.3 16.5 TYPE (Circle ap (BTEX)	Turbidity (NTU)	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.7 6.8 6.8 6.8 6.8 (8260) (8010 (8270) (PAE	Cond. (uS/cm) 155 154.8 154.8 154.6 154.8 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 1.41 1.40 1.39 1.40 LOWED PE JWTPH-G) (D) (NWTPH	5.97 5.97 5.97 5.97 5.97 5.97 ER BOTTLE NWTPH-Gx,	ORP (mV) 16.6 16.5 16.4 16.3 16.5 TYPE (Circle approximately (BTEX)) HCID) (8081) (Turbidity (NTU)	(ft)	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.7 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270) (PAH (pH) (Condu	Cond. (uS/cm) 155 154.8 154.6 154.8 NALYSIS AI 0) (8020) (NI I) (NWTPH- inctivity) (TDS	D.O. (mg/L) 1.41 1.40 1.39 1.40 LOWED PERMYPH-G) (MYTPH-G) (M	5.97 5.97 5.97 5.97 5.97 6.R BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic	ORP (mV) 16.6 16.5 16.4 16.3 16.5 TYPE (Circle approximately (BTEX)) HCID) (8081) (Turbidity (NTU) pplicable or write (8141) (Oil & Green (HCO3/CO3) (0	(ft)	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.7 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270) (PAH (pH) (Condu	Cond. (uS/cm) 155 154.8 154.6 154.8 NALYSIS AI (2) (8020) (N (3) (NWTPH- (4) (1014) (C) (Total PO-	D.O. (mg/L) 1.41 1.40 1.39 1.40 LOWED PERWITH-G) (D) (NWTPH S) (TSS) (B	5.97 5.97 5.97 5.97 5.97 5.97 CR BOTTLE NWTPH-Gx, -Dx) (TPH-DX) (Turbio dahl Nitroger	ORP (mV) 16.6 16.5 16.4 16.3 16.5 TYPE (Circle ap (BTEX) HCID) (8081) (dity) (Alkalinity)	Turbidity (NTU) pplicable or write (8141) (Oil & Green (HCO3/CO3) (0	(ft)	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.7 6.8 6.8 6.8 6.8 7 TYPICAL A (8260) (8010 (8270) (PAF (PH) (Condu (COD) (TOO (Total Cyanid (Total Metals)	Cond. (uS/cm) 155 154.8 154.6 154.8 NALYSIS AI (D) (8020) (N (I) (NWTPH- (activity) (TDS) (C) (Total PO- (e) (WAD Cy () (As) (Sb) (D.O. (mg/L) 1.41 1.40 1.39 1.40 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie anide) (Free Ba) (Be) (Ca	5.97 5.97 5.97 5.97 5.97 5.97 CR BOTTLE NWTPH-Gx, 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 16.6 16.5 16.4 16.3 16.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.7 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 155 154.8 154.6 154.8 NALYSIS AI 0) (8020) (N I) (NWTPH- lictivity) (TDS C) (Total PO4 e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (Sb)	D.O. (mg/L) 1.41 1.40 1.39 1.40 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie anide) (Free Ba) (Be) (Ca	5.97 5.97 5.97 5.97 5.97 5.97 CR BOTTLE NWTPH-Gx, 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 16.6 16.5 16.4 16.3 16.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.7 6.8 6.8 6.8 6.8 6.8 (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M-	Cond. (uS/cm) 155 154.8 154.6 154.8 NALYSIS AI (i) (8020) (Note the control of the control	D.O. (mg/L) 1.41 1.40 1.39 1.40 1.40 1.39 1.40 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.97 5.97 5.97 5.97 5.97 5.97 CR BOTTLE NWTPH-Gx, 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 16.6 16.5 16.4 16.3 16.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.7 6.8 6.8 6.8 6.8 6.8 (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M-	Cond. (uS/cm) 155 154.8 154.6 154.8 NALYSIS AI 0) (8020) (N I) (NWTPH- lictivity) (TDS C) (Total PO4 e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (Sb)	D.O. (mg/L) 1.41 1.40 1.39 1.40 1.40 1.39 1.40 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.97 5.97 5.97 5.97 5.97 5.97 CR BOTTLE NWTPH-Gx, 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 16.6 16.5 16.4 16.3 16.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.7 6.8 6.8 6.8 6.8 6.8 (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 155 154.8 154.6 154.8 NALYSIS AI (i) (8020) (Note the control of the control	D.O. (mg/L) 1.41 1.40 1.39 1.40 1.40 1.39 1.40 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.97 5.97 5.97 5.97 5.97 5.97 CR BOTTLE NWTPH-Gx, 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 16.6 16.5 16.4 16.3 16.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.7 6.8 6.8 6.8 6.8 7 TYPICAL A (8260) (8010 (8270) (PAF (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M-VOC (Boein Methane Eth	Cond. (uS/cm) 155 154.8 154.6 154.8 NALYSIS AI (i) (8020) (Note the control of the control	D.O. (mg/L) 1.41 1.40 1.39 1.40 1.40 1.39 1.40 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.97 5.97 5.97 5.97 5.97 5.97 CR BOTTLE NWTPH-Gx, 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 16.6 16.5 16.4 16.3 16.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.7 6.8 6.8 6.8 6.8 6.8 (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 155 154.8 154.6 154.8 NALYSIS AI (i) (8020) (Note the control of the control	D.O. (mg/L) 1.41 1.40 1.39 1.40 1.40 1.39 1.40 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.97 5.97 5.97 5.97 5.97 5.97 CR BOTTLE NWTPH-Gx, 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 16.6 16.5 16.4 16.3 16.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.7 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 155 154.8 154.6 154.8 NALYSIS AI (i) (8020) (Note the control of the control	D.O. (mg/L) 1.41 1.40 1.39 1.40 1.40 1.39 1.40 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.97 5.97 5.97 5.97 5.97 5.97 CR BOTTLE NWTPH-Gx, 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 16.6 16.5 16.4 16.3 16.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 6.7 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 155 154.8 154.6 154.8 NALYSIS AI (i) (8020) (Note the control of the control	D.O. (mg/L) 1.41 1.40 1.39 1.40 1.40 1.39 1.40 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.97 5.97 5.97 5.97 5.97 5.97 CR BOTTLE NWTPH-Gx, 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 16.6 16.5 16.4 16.3 16.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 2 Duplicate San	Temp (°F/°C) 6.7 6.8 6.8 6.8 6.8 7YPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 155 154.8 154.6 154.8 NALYSIS AI (i) (8020) (Note the control of the control	D.O. (mg/L) 1.41 1.40 1.39 1.40 1.40 1.39 1.40 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.97 5.97 5.97 5.97 5.97 5.97 CR BOTTLE NWTPH-Gx, 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 16.6 16.5 16.4 16.3 16.5 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil (NO2) (Pb) (Mg) (Mn) (Ni) (Oil (NO3) (Mg) (Mn) (Ni) (Oil (NO4) (Mg) (Mg) (Mg) (Mg) (Mg) (Mg) (Mg) (Mg	non-standard and asse) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR



Project Name	e <u>:</u>	Boeing Ren	ton		Project Number	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/21 /2022@	1416		
Sample Num	ıber:	RGW224S-	220221		Weather:	P SUNNY 40S			
Landau Repr	resentative:	AHA/JAM							
WATER LEV	EL/WELL/PU	RGE DATA							
Well Conditio	n:	Secure (YES)	Damaged (N	O)	Describe:	FLUSH		
DTW Before I	Purging (ft)	9.92	Time:		Flow through ce	ll vol.		GW Meter No.(s	HERON 2
Begin Purge:	0 0 0			End Purge:	_	2/ 21 /2022 @	1413	Gallons Purged:	
Purge water di			55-gal Drum		Storage Tank	Ground		SITE TREATMI	
r argo mater ar	•				S	_			
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	` /	` '		ters for three	` '	dings within the fo	` '	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1352	11.6	134.1	1.37	6.02	38.8		9.97		
1355	11.5	138.2	1.31	5.94	28.9		9.96		
1358	11.4	138.5	1.47	5.93	26.7		9.96		
1401	10.4	136.6	1.44	5.93	23.8		9.96		
1404	9.2	133.6	1.48	5.95	21.2				
1407	8.8	130.8	1.57	5.95	18.7				
1410	8.3	129.1	1.56	5.94	17.1				
SAMPLE COL	LLECTION D	ATA							
Sample Collec	eted With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste	el	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	sh 🗖	Tap Rinse	DI Water	Dedicated		_	
(By Numerical					₩				
	i Oraer)	Other							
. •	ŕ		, sheen, etc.):	LOW TURB	IDITY, CLEAR,	NO/NS			
. •	ŕ		, sheen, etc.):	LOW TURB	IDITY, CLEAR,	NO/NS			
. •	iption (color, t	curbidity, odor	D.O.	LOW TURB	ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descri	iption (color, t	turbidity, odor					DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descri	iption (color, t	curbidity, odor	D.O.		ORP	Turbidity			
Sample Descri	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity			
Sample Descri	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 5.94	ORP (mV)	Turbidity			
Replicate 1 2 3	Temp (°F/°C) 8.1 8.1	Cond. (uS/cm) 128.9 128.8	D.O. (mg/L) 1.57 1.54	pH 5.94 5.94 5.94	ORP (mV) 16.6 16.4	Turbidity			
Replicate 1 2 3 4	Temp (°F/°C) 8.1 8.1 8.1	Cond. (uS/cm) 128.9 128.8 128.5	D.O. (mg/L) 1.57 1.54 1.53	pH 5.94 5.94 5.94 5.94	ORP (mV) 16.6 16.4 16.1	Turbidity (NTU)			
Replicate 1 2 3	Temp (°F/°C) 8.1 8.1	Cond. (uS/cm) 128.9 128.8	D.O. (mg/L) 1.57 1.54	pH 5.94 5.94 5.94	ORP (mV) 16.6 16.4	Turbidity			
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.1 8.1 8.1 8.1	Cond. (uS/cm) 128.9 128.8 128.5 128.4	D.O. (mg/L) 1.57 1.54 1.53 1.53	pH 5.94 5.94 5.94 5.94 5.94	ORP (mV) 16.6 16.4 16.4 16.1	Turbidity (NTU)	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.1 8.1 8.1 8.1 TYPICAL A (8260) (8010)	Cond. (uS/cm) 128.9 128.5 128.4 128.7 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 1.57 1.54 1.53 1.53 1.55 LLOWED PE	5.94 5.94 5.94 5.94 5.94 6.99 ER BOTTLE NWTPH-GX	ORP (mV) 16.6 16.4 16.1 16.4 TYPE (Circle ap (BTEX)	Turbidity (NTU) #DIV/0!	(ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.1 8.1 8.1 8.1 TYPICAL A (8260) (8010) (8270) (PAE)	Cond. (uS/cm) 128.9 128.8 128.5 128.4 128.7 NALYSIS AI () (8020) (NI) (NWTPH-	D.O. (mg/L) 1.57 1.54 1.53 1.53 1.55 LLOWED PENWTPH-G) (D) (NWTPH	5.94 5.94 5.94 5.94 5.99 R BOTTLE NWTPH-Gx ,-Dx) (TPH-	ORP (mV) 16.6 16.4 16.1 16.4 TYPE (Circle aport (BTEX)) HCID) (8081) (#DIV/0! pplicable or write (8141) (Oil & Gre	non-standard an	(Fe II) nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 8.1 8.1 8.1 8.1 TYPICAL A (8260) (8010) (8270) (PAF (pH) (Condu	Cond. (uS/cm) 128.9 128.8 128.5 128.4 128.7 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 1.57 1.54 1.53 1.53 1.5 LLOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B	5.94 5.94 5.94 5.94 5.99 R BOTTLE NWTPH-Gx -Dx) (TPH-OD) (Turbic	ORP (mV) 16.6 16.4 16.1 16.4 TYPE (Circle ap (BTEX) HCID) (8081) (dity) (Alkalinity)	#DIV/0! pplicable or write 8141) (Oil & Gre	non-standard an	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 8.1 8.1 8.1 8 1 TYPICAL A' (8260) (8010) (8270) (PAF) (pH) (Conduction) (COD) (TOO)	Cond. (uS/cm) 128.9 128.8 128.5 128.4 128.7 NALYSIS AI 0) (8020) (NUTPH- ctivity) (TD:	D.O. (mg/L) 1.57 1.54 1.53 1.53 1.55 LLOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie	5.94 5.94 5.94 5.94 5.94 8.R BOTTLE NWTPH-Gx -Dx) (TPH-OD) (Turbio dahl Nitroger	ORP (mV) 16.6 16.4 16.1 16.4 TYPE (Circle aport (BTEX)) HCID) (8081) (#DIV/0! pplicable or write 8141) (Oil & Gre	non-standard an	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.1 8.1 8.1 8.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid	Cond. (uS/cm) 128.9 128.8 128.5 128.7 NALYSIS AI () (8020) (NI) (NWTPH- (ctivity) (TD) (C) (Total PO- (e) (WAD Cy	D.O. (mg/L) 1.57 1.54 1.53 1.53 1.55 LLOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie- ranide) (Free	5.94 5.94 5.94 5.94 5.94 5.90 CR BOTTLE NWTPH-GX DX) (TPH-OD) (Turbid dahl Nitroger Cyanide)	ORP (mV) 16.6 16.4 16.1 16.4 TYPE (Circle ap (BTEX)) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/2)	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Gre (HCO3/CO3) (67)	non-standard an ase)	(Fe II) nalysis below) WA WA Solution W	Observations OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.1 8.1 8.1 8.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 128.9 128.8 128.5 128.4 128.7 NALYSIS AI 1) (8020) (NUTPHetivity) (TD: C) (Total PO- e) (WAD Cy) (As) (Sb) (D.O. (mg/L) 1.57 1.54 1.53 1.53 1.55 LLOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kieder) (Free Ba) (Be) (Ca	5.94 5.94 5.94 5.94 5.94 5.90 CR BOTTLE NWTPH-GX DO) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 16.6 16.4 16.1 16.4 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (non-standard and asse) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.1 8.1 8.1 8.1 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M.	Cond. (uS/cm) 128.9 128.8 128.5 128.7 NALYSIS AI () (8020) (NI) (NWTPH-tetivity) (TDG) () (Total POde) (WAD Cy) (As) (Sb) (cetals) (As) (Sb)	D.O. (mg/L) 1.57 1.54 1.53 1.53 1.55 LLOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kieder) (Free Ba) (Be) (Ca	5.94 5.94 5.94 5.94 5.94 5.90 CR BOTTLE NWTPH-GX DO) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 16.6 16.4 16.1 16.4 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (non-standard and asse) CI) (SO4) (NO	(Fe II)	Observations OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.1 8.1 8.1 8.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M-	Cond. (uS/cm) 128.9 128.8 128.5 128.4 128.7 NALYSIS AI 0) (8020) (NI 0) (NWTPH- ctivity) (TD: 0) (Total PO- e) (WAD Cy 0) (As) (Sb) (Set als) (As) (Set als) (As) (Set als)	D.O. (mg/L) 1.57 1.54 1.53 1.53 1.55 LLOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie- vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.94 5.94 5.94 5.94 5.94 5.90 CR BOTTLE NWTPH-GX DO) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 16.6 16.4 16.1 16.4 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (non-standard and asse) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.1 8.1 8.1 8.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M-	Cond. (uS/cm) 128.9 128.8 128.5 128.7 NALYSIS AI () (8020) (NI) (NWTPH-tetivity) (TDG) () (Total POde) (WAD Cy) (As) (Sb) (cetals) (As) (Sb)	D.O. (mg/L) 1.57 1.54 1.53 1.53 1.55 LLOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie- vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.94 5.94 5.94 5.94 5.94 5.90 CR BOTTLE NWTPH-GX DO) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 16.6 16.4 16.1 16.4 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (non-standard and asse) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.1 8.1 8.1 8.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M-	Cond. (uS/cm) 128.9 128.8 128.5 128.4 128.7 NALYSIS AI 0) (8020) (NI 0) (NWTPH- ctivity) (TD: 0) (Total PO- e) (WAD Cy 0) (As) (Sb) (Set als) (As) (Set als) (As) (Set als)	D.O. (mg/L) 1.57 1.54 1.53 1.53 1.55 LLOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie- vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.94 5.94 5.94 5.94 5.94 5.90 CR BOTTLE NWTPH-GX DO) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 16.6 16.4 16.1 16.4 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (non-standard and asse) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.1 8.1 8.1 8.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M-	Cond. (uS/cm) 128.9 128.8 128.5 128.4 128.7 NALYSIS AI 0) (8020) (NI 0) (NWTPH- ctivity) (TD: 0) (Total PO- e) (WAD Cy 0) (As) (Sb) (Set als) (As) (Set als) (As) (Set als)	D.O. (mg/L) 1.57 1.54 1.53 1.53 1.55 LLOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie- vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.94 5.94 5.94 5.94 5.94 5.90 CR BOTTLE NWTPH-GX DO) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) 16.6 16.4 16.1 16.4 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (non-standard and asse) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 8.1 8.1 8.1 8.1 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 128.9 128.8 128.5 128.4 128.7 NALYSIS AI (NWTPH- (C) (Total PO- (e) (WAD Cy (As) (Sb) (etals) (As) (St g short list) ane Ethene A	D.O. (mg/L) 1.57 1.54 1.53 1.53 1.55 LLOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kiederanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca cetylene	pH 5.94 5.94 5.94 5.94 5.90 RR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbic dahl Nitroger Cyanide) (1) (Cd) (Co) (Ca) (Cd) (Co)	ORP (mV) 16.6 16.4 16.1 16.4 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (non-standard and asse) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 2 Duplicate Sam	Temp (°F/°C) 8.1 8.1 8.1 8.1 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 128.9 128.8 128.5 128.4 128.7 NALYSIS AI (NWTPH- (C) (Total PO- (e) (WAD Cy (As) (Sb) (etals) (As) (St g short list) ane Ethene A	D.O. (mg/L) 1.57 1.54 1.53 1.53 1.55 LLOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie- vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 5.94 5.94 5.94 5.94 5.90 RR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbic dahl Nitroger Cyanide) (1) (Cd) (Co) (Ca) (Cd) (Co)	ORP (mV) 16.6 16.4 16.1 16.4 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (non-standard and asse) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 8.1 8.1 8.1 8.1 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 128.9 128.8 128.5 128.4 128.7 NALYSIS AI (NWTPH- (C) (Total PO- (e) (WAD Cy (As) (Sb) (etals) (As) (St g short list) ane Ethene A	D.O. (mg/L) 1.57 1.54 1.53 1.53 1.55 LLOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kiederanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca cetylene	pH 5.94 5.94 5.94 5.94 5.90 RR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbic dahl Nitroger Cyanide) (1) (Cd) (Co) (Ca) (Cd) (Co)	ORP (mV) 16.6 16.4 16.1 16.4 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (non-standard and asse) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR



Begin Purge: Date/Time: 2/21/2022@ End Purge: Date/Time: 2/21/2022@ Gallons Purge water disposed to: 55-gal Drum Storage Tank Ground Other SITE TRE Temp Cond. D.O. pH ORP Turbidity DTW Internal P Volume (Purge Comments, (e (gal) Observation (low n cell dicated Comments)	Gallons Purged:	FLUSH Other DTW (ft) bllowing limits < 0.3 ft	Describe: vol. 2/21 /2022 @ Ground Turbidity (NTU) lings within the fo +/- 10%	O) Flow through co Date/Time: Storage Tank ORP (mV) consecutive rea +/- 10 mV	PH ters for three +/- 0.1 units	Time: @ 55-gal Drum D.O. (mg/L) n of Paramet +/- 10%	RGWDUP3 AHA/JAM JRGE DATA Secure (YES) 2/ 21 /2022 Cond. (uS/cm) ls: Stablizatio	versentative: versentative: versentative: versentative: Purging (ft) Date/Time: disposed to: Temp (°F/°C) Purge Goa	Sample Nun Landau Rep WATER LEV Well Condition DTW Before Begin Purge: Purge water of
NATER LEVELWELLPURGE DATA	Purge Comments, Observation a cell clicated comments, co	Gallons Purged: SITE TREATME Internal Purge Volume (gal) >/= 1 flow	Other DTW (ft) ollowing limits < 0.3 ft	Describe: 2/21 /2022 @ Ground Turbidity (NTU) lings within the fo +/- 10%	O) Flow through co Date/Time: Storage Tank ORP (mV) consecutive rea +/- 10 mV	PH ters for three +/- 0.1 units	Time: @ 55-gal Drum D.O. (mg/L) n of Paramet +/- 10%	AHA/JAM JRGE DATA Secure (YES) 2/ 21 /2022 Cond. (uS/cm) ls: Stablizatio	versentative: versentative: versentative: versentative: Purging (ft) Date/Time: disposed to: Temp (°F/°C) Purge Goa	Landau Rep WATER LEV Well Conditio DTW Before Begin Purge: Purge water of
WATER LEVEL/PURGE DATA	Purge Comments, Observation a cell clicated comments, co	Gallons Purged: SITE TREATME Internal Purge Volume (gal) >/= 1 flow	Other DTW (ft) ollowing limits < 0.3 ft	2/21 /2022 @ Ground Turbidity (NTU) lings within the fo +/- 10%	Plow through co Date/Time: Storage Tank ORP (mV) consecutive rea +/- 10 mV	PH ters for three +/- 0.1 units	Time:	Secure (YES) 2/ 21 /2022 Cond. (uS/cm) ls: Stablizatio	vel/well/pl on: Purging (ft) Date/Time: disposed to: Temp (°F/°C) Purge Goa	WATER LEV Well Condition DTW Before Begin Purge:
Damaged (NO) Describe: FLUSH GW Meter Flow through cell vol. GW Meter GW	Purge Comments, Observation a cell clicated comments, co	Gallons Purged: SITE TREATME Internal Purge Volume (gal) >/= 1 flow	Other DTW (ft) ollowing limits < 0.3 ft	2/21 /2022 @ Ground Turbidity (NTU) lings within the fo +/- 10%	Plow through co Date/Time: Storage Tank ORP (mV) consecutive rea +/- 10 mV	PH ters for three +/- 0.1 units	Time:	2/21 /2022 Cond. (uS/cm) ls: Stablization	on: Purging (ft) Date/Time: disposed to: Temp (°F/°C) Purge Goa	Well Condition DTW Before Begin Purge: Purge water of
Damaged (NO) Describe: FLUSH	Purge Comments, Observation a cell clicated comments, co	Gallons Purged: SITE TREATME Internal Purge Volume (gal) >/= 1 flow	Other DTW (ft) ollowing limits < 0.3 ft	2/21 /2022 @ Ground Turbidity (NTU) lings within the fo +/- 10%	Plow through co Date/Time: Storage Tank ORP (mV) consecutive rea +/- 10 mV	PH ters for three +/- 0.1 units	Time:	2/21 /2022 Cond. (uS/cm) ls: Stablization	on: Purging (ft) Date/Time: disposed to: Temp (°F/°C) Purge Goa	Well Condition DTW Before Begin Purge: Purge water of
DTW Before Purging (ft)	Purge Comments, Observation a cell clicated comments, co	Gallons Purged: SITE TREATME Internal Purge Volume (gal) >/= 1 flow	Other DTW (ft) ollowing limits < 0.3 ft	2/21 /2022 @ Ground Turbidity (NTU) lings within the fo +/- 10%	Plow through co Date/Time: Storage Tank ORP (mV) consecutive rea +/- 10 mV	PH ters for three +/- 0.1 units	Time:	2/21 /2022 Cond. (uS/cm) ls: Stablization	Purging (ft) Date/Time: disposed to: Temp (°F/°C) Purge Goa	DTW Before Begin Purge: Purge water d
Begin Purge: Date/Time: 2/21 /2022 @ End Purge: Date/Time: 2/21 /2022 @ Gallons Purge	Purge Comments, Observation a cell clicated comments, co	Gallons Purged: SITE TREATME Internal Purge Volume (gal) >/= 1 flow	Other DTW (ft) Ollowing limits < 0.3 ft	2/21 /2022 @ Ground Turbidity (NTU) lings within the fo +/- 10%	Date/Time: Storage Tank ORP (mV) consecutive rea +/- 10 mV	pH ters for three +/- 0.1 units	© 55-gal Drum D.O. (mg/L) n of Paramet +/- 10%	Cond. (uS/cm) ls: Stablizatio	Date/Time: disposed to: Temp (°F/°C) Purge Goa	Begin Purge: Purge water d
Purge water disposed to:	Purge Comments, (e (gal) Observation (low n cell dicated Comments)	SITE TREATME Internal Purge Volume (gal) >/= 1 flow	Other DTW (ft) Ollowing limits < 0.3 ft	Ground Turbidity (NTU) lings within the fo +/- 10%	ORP (mV) consecutive rea +/- 10 mV	pH ters for three +/- 0.1 units	D.O. (mg/L) n of Paramet +/- 10%	Cond. (uS/cm) ls: Stablizatio	disposed to: Temp (°F/°C) Purge Goa	Purge water of
Time	Purge (gal) Observation Observation of cell of	Internal Purge Volume (gal) >/= 1 flow	DTW (ft) bllowing limits < 0.3 ft	Turbidity (NTU) lings within the fo +/- 10%	ORP (mV) consecutive rea +/- 10 mV	pH ters for three +/- 0.1 units	D.O. (mg/L) n of Paramet +/- 10%	Cond. (uS/cm) ls: Stablization	Temp (°F/°C) Purge Goa	
Company Comp	e (gal) Observation low n cell dicated Siron Comments	Volume (gal) >/= 1 flow	(ft) bllowing limits < 0.3 ft	(NTU) lings within the fo +/- 10%	(mV) consecutive rea +/- 10 mV	ters for three +/- 0.1 units	(mg/L) n of Paramet +/- 10%	(uS/cm) ls: Stablization	(°F/°C) Purge Goa	Time
DUPLICATE TO RGW224S	dicated Comments,		< 0.3 ft	+/- 10%	+/- 10 mV	+/- 0.1 units	+/- 10%		_	
DUPLICATE TO RGW224S	licated Siron Comments,								17-370	
SAMPLE COLLECTION DATA	s iron Comments,		4S	AGW224	Е ТО І	ICAT)I IPI			
SAMPLE COLLECTION DATA	s iron Comments,		4S 	AGW224	Е ТО І	—— ICAT)I IPI			
SAMPLE COLLECTION DATA	s iron Comments,		4S 	4GW224	Е ТО І	ICAT) I IPI			
SAMPLE COLLECTION DATA	s iron Comments,		4S 	AGW224	Е ТО І	ICAT)I IPI			
SAMPLE COLLECTION DATA Sample Collected With:	s iron Comments,		4S 	GW224	ЕТОІ	ICAT	ЯΗР	_		
SAMPLE COLLECTION DATA Sample Collected With:	s iron Comments,							Γ		
Sample Collected With: Bailer Pump/Pump Type BLADDER Other Dedicated Decon Procedure: Alconox Wash Tap Rinse DI Water Dedicated Decon Procedure: Alconox Wash Tap Rinse DI Water Dedicated Dedicated Decon Procedure: Alconox Wash Tap Rinse DI Water Dedicated Dedicated Decon Procedure: Alconox Wash Tap Rinse DI Water Dedicated Dedic	s iron Comments,						. O. L	_		
Sample Collected With: Bailer PVC Teflon Polyethylene Other Dedicted Decon Procedure: Alconox Wash Tap Rinse DI Water Dedicated Dedicated Decon Procedure: Alconox Wash Tap Rinse DI Water Dedicated Dedicated Decon Procedure: Alconox Wash Tap Rinse DI Water Dedicated Dedicate	s iron Comments,									
Sample Collected With: Bailer Pump/Pump Type BLADDER Other Dedicated Decon Procedure: Alconox Wash Tap Rinse DI Water Dedicated Decon Procedure: Alconox Wash Tap Rinse DI Water Dedicated Dedicated Decon Procedure: Alconox Wash Tap Rinse DI Water Dedicated Dedicated Decon Procedure: Alconox Wash Tap Rinse DI Water Dedicated Dedic	s iron Comments,									
Sample Collected With: Bailer Pump/Pump Type BLADDER Other Dedicated Decon Procedure: Alconox Wash Tap Rinse DI Water Dedicated Decon Procedure: Alconox Wash Tap Rinse DI Water Dedicated Dedicated Decon Procedure: Alconox Wash Tap Rinse DI Water Dedicated Dedicated Decon Procedure: Alconox Wash Tap Rinse DI Water Dedicated Dedic	s iron Comments,									
Pump/Pump Type BLADDER	s iron Comments,		ī							
Pump/Pump Type BLADDER	s iron Comments,							DATA	DLLECTION D	AMPLE CO
Made of:	s iron Comments,			RI ADDER	Pumn/Pumn Tyn	-	Railer			
Decom Procedure: Alconox Wash Tap Rinse DI Water Dedicated	s iron Comments,	—		_			_	_	cica with.	•
By Numerical Order		☐ Dedicated	U Other	Polyethylene	Teflon	PVC	el 🛄	Stainless Stee		Aade of:
Replicate Temp (°F)°C) Cond. (mg/L) D.O. pH (mV) ORP (mV) Turbidity (NTU) DTW (Fe II) 1 8 128.2 1.51 5.94 15.8				Dedicated	DI Water	Tap Rinse	h 🔲	Alconox Was	dure:	Decon Proced
Replicate Temp Cond. D.O. pH ORP Turbidity DTW Ferrous is								Other	al Order)	Bv Numerica
Replicate Temp Cond. (mg/L) (mV) (NTU) (ft) (Fe II)										
(°F/°C) (uS/cm) (mg/L) (mV) (NTU) (ft) (Fe II) 1 8 128.2 1.51 5.94 15.8 2 8 128.2 1.5 5.94 15.6 3 8 128 1.5 5.94 15.4 4 7.8 127.8 1.5 5.94 15.3 Average: 8.0 128.1 1.5 5.9 15.5 #DIV/0! QUANTITY TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis belowed (8260) (8010) (8020) (NWTPH-G) (NWTPH-Gx) (BTEX) WA □ 2 (8270) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease) WA □ (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (CI) (SO4) (NO3) (NO2) (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2) (Tot				NO/NS	IDITY, CLEAR,	LOW TURB	sheen, etc.):	turbidity, odor,	ription (color,	Sample Desci
(°F/°C) (uS/cm) (mg/L) (mV) (NTU) (ft) (Fe II) 1 8 128.2 1.51 5.94 15.8 2 8 128.2 1.5 5.94 15.6 3 8 128 1.5 5.94 15.4 4 7.8 127.8 1.5 5.94 15.3 Average: 8.0 128.1 1.5 5.9 15.5 #DIV/0! QUANTITY TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis belowed (8260) (8010) (8020) (NWTPH-G) (NWTPH-Gx) (BTEX) WA □ 2 (8270) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease) WA □ (PH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (CI) (SO4) (NO3) (NO2) (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2) (Tot										
1 8 128.2 1.51 5.94 15.8 2 8 128.2 1.5 5.94 15.6 3 8 128 1.5 5.94 15.4 4 7.8 127.8 1.5 5.94 15.3 Average: 8.0 128.1 1.5 5.94 15.5 #DIV/0! QUANTITY TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis belo (8260) (8010) (8020) (NWTPH-G) (NWTPH-Gx) (BTEX) WA □ 2 (8270) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease) WA □ (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2) (Total Cyanide) (WAD Cyanide) (Free Cyanide) (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) VOC (Boeing short list)	II) Observation	Ferrous iron		•		pН			_	Replicate
2 8 128.2 1.5 5.94 15.6 3 8 128 1.5 5.94 15.3 Average: 8.0 128.1 1.5 5.94 15.3 Average: 8.0 128.1 1.5 5.9 15.5 #DIV/0! 2UANTITY TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis belo (8260) (8010) (8020) (NWTPH-G) (NWTPH-Gx) (BTEX) WA □ 2 (8270) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease) WA □ (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2) (Total Cyanide) (WAD Cyanide) (Free Cyanide) (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (TI) (V) (Zn) (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (TI) (V) (Zn) (Hg) VOC (Boeing short list)		(Fe II)	(ft)	(NTU)	(mV)		(mg/L)	(uS/cm)	(°F/°C)	
3 8 128 1.5 5.94 15.4 4 7.8 127.8 1.5 5.94 15.3 Average: 8.0 128.1 1.5 5.9 15.5 #DIV/0! QUANTITY TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis belo (8260) (8010) (8020) (NWTPH-G) (NWTPH-Gx) (BTEX) WA □ 2 (8270) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease) WA □ (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (CI) (SO4) (NO3) (NO2) (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2) (Total Cyanide) (WAD Cyanide) (Free Cyanide) (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (TI) (V) (Zn (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (TI) (V) (Zn) (Hg) VOC (Boeing short list)					15.8	5.94	1.51	128.2	8	1
3 8 128 1.5 5.94 15.4 4 7.8 127.8 1.5 5.94 15.3 Average: 8.0 128.1 1.5 5.9 15.5 #DIV/0! QUANTITY TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis belo (8260) (8010) (8020) (NWTPH-G) (NWTPH-Gx) (BTEX) WA □ 2 (8270) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease) WA □ (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2) (Total Cyanide) (WAD Cyanide) (Free Cyanide) (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) VOC (Boeing short list)					15.6	5 94	1.5	128.2	8	2
4 7.8 127.8 1.5 5.94 15.3 Average: 8.0 128.1 1.5 5.9 15.5 #DIV/0! QUANTITY TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis belo (8260) (8010) (8020) (NWTPH-G) (NWTPH-Gx) (BTEX) WA 2 (8270) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease) WA (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2) (Total Cyanide) (WAD Cyanide) (Free Cyanide) (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (TI) (V) (Zn) (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (TI) (V) (Zn) (Hg) VOC (Boeing short list)										
Average: 8.0 128.1 1.5 5.9 15.5 #DIV/0! QUANTITY TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis belo (8260) (8010) (8020) (NWTPH-G) (NWTPH-Gx) (BTEX) WA 2 (8270) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease) WA (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2) (Total Cyanide) (WAD Cyanide) (Free Cyanide) (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) VOC (Boeing short list)					15.4	5.94	1.5	128	8	3
QUANTITY TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis belo (8260) (8010) (8020) (NWTPH-G) (NWTPH-Gx) (BTEX) WA 2 (8270) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease) WA (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2) (Total Cyanide) (WAD Cyanide) (Free Cyanide) (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (TI) (V) (Zr) (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (TI) (V) (Zn) (Hg) VOC (Boeing short list)					15.3	5.94	1.5	127.8	7.8	4
(8260) (8010) (8020) (NWTPH-G) (NWTPH-Gx) (BTEX) 2 (8270) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease) WA (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2) (Total Cyanide) (WAD Cyanide) (Free Cyanide) (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (VOC) (Boeing short list)				#DIV/0!	15.5	5.9	1.5	128.1	8.0	Average:
(8260) (8010) (8020) (NWTPH-G) (NWTPH-Gx) (BTEX) 2 (8270) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease) WA (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2) (Total Cyanide) (WAD Cyanide) (Free Cyanide) (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (VOC (Boeing short list)	lami	almia bili			TVDE (C! 1	D DOTTE	I OWED DE		TVDICAL	
2 (8270) (PAH) (NWTPH-D) (NWTPH-Dx) (TPH-HCID) (8081) (8141) (Oil & Grease) WA (pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2) (Total Cyanide) (WAD Cyanide) (Free Cyanide) (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) VOC (Boeing short list)			ion-standard an	plicable of write i					1	ZUAINIIIY
(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO3/CO3) (Cl) (SO4) (NO3) (NO2) (COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2) (Total Cyanide) (WAD Cyanide) (Free Cyanide) (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zr (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) VOC (Boeing short list)	OR 🗌			2141) (21.4.2	` /			, , , ,	` / `	
(COD) (TOC) (Total PO4) (Total Kiedahl Nitrogen) (NH3) (NO3/NO2) (Total Cyanide) (WAD Cyanide) (Free Cyanide) (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zr) (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) VOC (Boeing short list)	OR 🗆	WA L	ase)	8141) (Oil & Grea	(8081)	-Dx) (TPH-I	O) (NWTPH	H) (NWTPH-I	(8270) (PAI	2
(Total Cyanide) (WAD Cyanide) (Free Cyanide) (Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zr) (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) VOC (Boeing short list)) (F)	3) (NO2) (F)	Cl) (SO4) (NO:	(HCO3/CO3) (C	lity) (Alkalinity	OD) (Turbio	(TSS) (B	activity) (TDS	(pH) (Condu	
(Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zr) (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (VOC (Boeing short list)				NO2)) (NH3) (NO3	dahl Nitrogen) (Total Kie	C) (Total PO4	(COD) (TO	
(Total Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zr) (Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (VOC (Boeing short list)	·					Cyanide)	anide) (Free	le) (WAD Cya	(Total Cyanic	
(Dissolved Metals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) VOC (Boeing short list)	Zn) (Hg) (K) (Na)		Ni) (Ag) (Se) (Pb) (Mg) (Mn) (1	(Cr) (Cu) (Fe)	(Cd) (Co)	Ba) (Be) (Ca) (As) (Sb) (I	(Total Metals	
VOC (Boeing short list)		Γ l) (V) (Z n) (H $\mathfrak s$								
	3) (K) (14a) (Hardiness) (1		(Ag) (Sc) (11) (V) (Wig) (Will) (Wi) ((C1) (Cu) (1C) (1	<i>a)</i> (Cu) (Co)) (Da) (Dc) (C			
Methane Ethane Ethene Acetylene								· /	`	
							etylene	nane Ethene Ac	Methane Eth	
others									others	
<u></u>									1	
Duplicate Sample No(s): Duplicate to RGW224S								Duplicate to I		
							RGW224S	Duplicate to I	mple No(s):	Ouplicate Sar
Comments:							RGW224S	Duplicate to I	mple No(s):	_
Comments: Signature: JAM Date: 2/21/2022			2/21/2225	~ .			RGW224S	Duplicate to I		Comments:



Project Nam	ie:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/21/2022@	1051		
Sample Num	nber:	RGW226S-	220221		Weather:	CLOUDY 40'S			
Landau Repi	resentative:	AHA							
WATER LEV	EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES)	Damaged (N	O)	Describe:	FLUSHMOUN	Т	
DTW Before	Purging (ft)	7.79	Time:	• ,	Flow through ce	ll vol	-	GW Meter No.(s	SLOPE 2
Begin Purge:		2/ 21/2022 @		End Purge:	C	2/21 /2022 @	1050	Gallons Purged:	0.25
Purge water d			55-gal Drum	Ĕ	Storage Tank	Ground		SITE TREATMI	
r arge water a	1	_			C	_	<u> </u>		
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	` /	,		ters for three	` '	dings within the fo	` '	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1030	10.6	232.5	2.59	6.55	78.8		8.12		
1033	9.3	269.2	1.79	6.50	72.9		8.29		
1036	8.6	277.6	1.24	6.51	68.8		8.33		
1039	7.9		0.94	6.58			8.39		
	· ———	278.7			60.6		0.39		
1042	7.6	271.4	0.85	6.61	58.3			-	
1045	7.1	257.7	0.70	6.64	56.8				
1048	6.7	244.9	0.66	6.66	57.6				
SAMPLE CO	LLECTION D	ATA							
Sample Collec	cted With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Stee	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	ıl Order)	Other							
			, sheen, etc.):	LIGHT YEL	LOW, MED-HIG	H TURB, NO ODO	OR, NO SHEEN		
Sample Descr	ription (color, t	turbidity, odor							
, •	Temp	turbidity, odor	D.O.	LIGHT YEL	ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)			Ferrous iron (Fe II)	Comments/ Observations
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm) 243.6	D.O. (mg/L)	рН 6.66	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm) 243.6	D.O. (mg/L)	рН 6.66	ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 6.7	Cond. (uS/cm) 243.6	D.O. (mg/L) 0.66	pH 6.66 6.66	ORP (mV) 57.6	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 6.7 6.7	Cond. (uS/cm) 243.6 242.9 242.5	D.O. (mg/L) 0.66 0.67	pH 6.66 6.66 6.66	ORP (mV) 57.6 57.6	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.7 6.7 6.7 6.7	Cond. (uS/cm) 243.6 242.9 242.5 240.6 242.4	D.O. (mg/L) 0.66 0.67 0.68 0.66	pH 6.66 6.66 6.66 6.66	ORP (mV) 57.6 57.6 57.6 57.5 57.6	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.7 6.7 6.7 6.7 7	Cond. (uS/cm) 243.6 242.9 242.5 240.6 242.4	D.O. (mg/L) 0.66 0.67 0.68 0.66 0.67	pH	ORP (mV) 57.6 57.6 57.6 57.5 57.6	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.7 6.7 6.7 6.7 7 6.7 8.7	Cond. (uS/cm) 243.6 242.9 242.5 240.6 242.4 NALYSIS AI (8010) (8020	D.O. (mg/L) 0.66 0.67 0.68 0.66 0.67 LOWED PE	pH 6.66 6.66 6.66 6.66 CR BOTTLE G) (NWTPF	ORP (mV) 57.6 57.6 57.6 57.5 57.6 TYPE (Circle all-Gx) (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.7 6.7 6.7 6.7 7 7 7 7 7 8 2 8 2 8 2 8 8 9 8 9 9 8 9 9 9 9 9 9 9	Cond. (uS/cm) 243.6 242.9 242.5 240.6 242.4 NALYSIS AI (8010) (8020)	D.O. (mg/L) 0.66 0.67 0.68 0.66 0.67 LOWED PE 0) (NWTPH-I-D) (NWTPH-I-D) (NWTP	6.66 6.66 6.66 6.66 CR BOTTLE G) (NWTPH	ORP (mV) 57.6 57.6 57.6 57.6 TYPE (Circle a) I-GX) (BTEX) I-HCID) (8081)	#DIV/0!	DTW (ft)	(Fe II) nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.7 6.7 6.7 6.7 7 7 6.7 1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 243.6 242.9 242.5 240.6 242.4 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS)	D.O. (mg/L) 0.66 0.67 0.68 0.66 0.67 LOWED PE 0) (NWTPH-I-D) (NWTPH-I-D	6.66 6.66 6.66 6.66 CR BOTTLE G) (NWTPF	ORP (mV) 57.6 57.6 57.6 57.6 TYPE (Circle a) I-GX) (BTEX) I-HCID) (8081)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gro) (HCO3/CO3) (Gro)	DTW (ft)	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.7 6.7 6.7 6.7 7YPICAL A (8260-SIM) (8270D) (PA	Cond. (uS/cm) 243.6 242.9 242.5 240.6 242.4 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS)	D.O. (mg/L) 0.66 0.67 0.68 0.66 0.67 LOWED PE D) (NWTPH-I-D)	6.66 6.66 6.66 6.66 6.7 6.66 6.66 6.7 6.66 6.7 6.66 7 6.66 6.7 6.7	ORP (mV) 57.6 57.6 57.5 57.6 TYPE (Circle ald-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gro) (HCO3/CO3) (Gro)	DTW (ft)	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.7 6.7 6.7 6.7 6.7 7YPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction) (TOC (Total Cyanid	Cond. (uS/cm) 243.6 242.9 242.5 240.6 242.4 NALYSIS AI (8010) (8020 AH) (NWTPHICTIVITY) (TDS	D.O. (mg/L) 0.66 0.67 0.68 0.66 0.67 LOWED PE D) (NWTPH-I-D)	6.66 6.66 6.66 6.66 CR BOTTLE G) (NWTPF H-Dx) (TPF HOD) (Turbic tal Kiedahl N Cyanide)	ORP (mV) 57.6 57.6 57.5 57.6 TYPE (Circle a) I-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gro) (HCO3/CO3) (Gro)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.7 6.7 6.7 6.7 7 6.7 CHARA A (8260-SIM) (8270D) (PA) (COD) (TOtal Cyanid) (Total Metals)	Cond. (uS/cm) 243.6 242.9 242.5 240.6 242.4 NALYSIS AI (8010) (8020) AH) (NWTPHetivity) (TDS (25310C) (Tole) (WAD Cy) (As) (Sb) (Condense)	D.O. (mg/L) 0.66 0.67 0.68 0.66 0.67 LOWED PE 0) (NWTPH-I-D)	6.66 6.66 6.66 6.66 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) 57.6 57.6 57.6 57.5 57.6 TYPE (Circle ald-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Groth (MCO3/CO3) (Groth (MCO3/NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.7 6.7 6.7 6.7 7 6.7 CHARA A (8260-SIM) (8270D) (PA) (COD) (TOtal Cyanid) (Total Metals)	Cond. (uS/cm) 243.6 242.9 242.5 240.6 242.4 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (5310C) (Total) (e) (WAD Cy) (As) (Sb) (cetals) (As) (Sb) (D.O. (mg/L) 0.66 0.67 0.68 0.66 0.67 LOWED PE 0) (NWTPH-I-D)	6.66 6.66 6.66 6.66 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) 57.6 57.6 57.6 57.5 57.6 TYPE (Circle ald-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Groth (MCO3/CO3) (Groth (MCO3/NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.7 6.7 6.7 6.7 7 7 7 7 7 7 7 7 7 7 7 7	Cond. (uS/cm) 243.6 242.9 242.5 240.6 242.4 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (5310C) (Total) (e) (WAD Cy) (As) (Sb) (cetals) (As) (Sb) (D.O. (mg/L) 0.66 0.67 0.68 0.66 0.67 LOWED PE (NWTPH-I-D) (6.66 6.66 6.66 6.66 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) 57.6 57.6 57.6 57.5 57.6 TYPE (Circle ald-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Groth (MCO3/CO3) (Groth (MCO3/NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.7 6.7 6.7 6.7 7 7 7 7 7 7 7 7 7 7 7 7	Cond. (uS/cm) 243.6 242.9 242.5 240.6 242.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (Total) (e) (WAD Cy) (As) (Sb) (cetals) (As) (Sb g short list)	D.O. (mg/L) 0.66 0.67 0.68 0.66 0.67 LOWED PE (NWTPH-I-D) (6.66 6.66 6.66 6.66 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) 57.6 57.6 57.6 57.5 57.6 TYPE (Circle ald-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Groth (MCO3/CO3) (Groth (MCO3/NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.7 6.7 6.7 6.7 6.7 7 6.7 (8260-SIM) (8270D) (PA (PH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 243.6 242.9 242.5 240.6 242.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (Total) (e) (WAD Cy) (As) (Sb) (cetals) (As) (Sb g short list)	D.O. (mg/L) 0.66 0.67 0.68 0.66 0.67 LOWED PE (NWTPH-I-D) (6.66 6.66 6.66 6.66 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) 57.6 57.6 57.6 57.5 57.6 TYPE (Circle ald-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Groth (MCO3/CO3) (Groth (MCO3/NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.7 6.7 6.7 6.7 7 7 7 7 7 7 7 7 7 7 7 7	Cond. (uS/cm) 243.6 242.9 242.5 240.6 242.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (Total) (e) (WAD Cy) (As) (Sb) (cetals) (As) (Sb g short list)	D.O. (mg/L) 0.66 0.67 0.68 0.66 0.67 LOWED PE (NWTPH-I-D) (6.66 6.66 6.66 6.66 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) 57.6 57.6 57.6 57.5 57.6 TYPE (Circle ald-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Groth (MCO3/CO3) (Groth (MCO3/NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.7 6.7 6.7 6.7 6.7 7 6.7 (8260-SIM) (8270D) (PA (PH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 243.6 242.9 242.5 240.6 242.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (Total) (e) (WAD Cy) (As) (Sb) (cetals) (As) (Sb g short list)	D.O. (mg/L) 0.66 0.67 0.68 0.66 0.67 LOWED PE (NWTPH-I-D) (6.66 6.66 6.66 6.66 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) 57.6 57.6 57.6 57.5 57.6 TYPE (Circle ald-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Groth (MCO3/CO3) (Groth (MCO3/NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.7 6.7 6.7 6.7 6.7 7 6.7 (8260-SIM) (8270D) (PA (PH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 243.6 242.9 242.5 240.6 242.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (Total) (e) (WAD Cy) (As) (Sb) (cetals) (As) (Sb g short list)	D.O. (mg/L) 0.66 0.67 0.68 0.66 0.67 LOWED PE (NWTPH-I-D) (6.66 6.66 6.66 6.66 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) 57.6 57.6 57.6 57.5 57.6 TYPE (Circle ald-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Groth (MCO3/CO3) (Groth (MCO3/NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR



	ie:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/21/2022@	1139		
Sample Nun	nber:	RGW230I-	220221		Weather:	CLOUDY 40'S			
Landau Repr	resentative:	AHA							
WATER LEV	/EL/WELL/PU	RGE DATA							
Well Condition		Secure (YES)	Damaged (N	O)	Describe:	FLUSHMOUN	Т	
DTW Before		6.29	Time:		Flow through cel			GW Meter No.(s	SLOPE 2
Begin Purge:	0 0 0	2/21 /2022 @		End Purge:	_	2/21 /2022 @	. 1129	Gallons Purged:	
-		2/21/2022@		Ě	Storage Tank	Ground		-	0.25
Purge water d	iisposed to:	-	55-gal Drum	۳	Storage Tank	∟ Ground	- Other	SITE TREATM	ENI SISIEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C) Purge Goal	(uS/cm) ls: Stablizatio	(mg/L) on of Parame	ters for three	(mV) consecutive read	(NTU) dings within the fo	(ft) ollowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1118	10.5	268.7	0.45	6.37	93.5		6.28		
1121	9.4	254.8	0.50	6.39	87.4		6.28		
	·								
1124	9.1	248.7	0.48	6.38	84.8		6.28		
1127	9.1	248.4	0.49	6.41	84.2				
CAMPLECO	LLECTION D	АТА							
Sample Collection			Bailer		Pump/Pump Type	DIADDED			
•	cied with.		_					D. F. 4. 1	
Made of:		Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica		Other							
Sample Descr	ription (color, t	turbidity, odor	, sheen, etc.):	NO COLOR	, LOW TURB, NO	O ODOR, NO SHE	EN		
D 1'	Т	C 1	D.O.		ODD	T1:1:4	DTW	ъ .	G +/
Replicate	Temp (°F/°C)	Cond.	D.O.	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron	Comments/ Observations
•	(°F/°C)	(uS/cm)	(mg/L)	•	(mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1	(°F/°C) 8.9	(uS/cm) 246.7	(mg/L) 0.49	6.41	(mV) 84.2	•			
•	(°F/°C)	(uS/cm)	(mg/L)	•	(mV)	•			
1	(°F/°C) 8.9	(uS/cm) 246.7	(mg/L) 0.49	6.41	(mV) 84.2	•			
1 2	(°F/°C) 8.9	(uS/cm) 246.7 238.1	(mg/L) 0.49 0.61	6.41	(mV) 84.2 89.5	•			
1 2 3 4	(°F/°C) 8.9 8.9 8.9	246.7 238.1 250.6	0.49 0.61 0.72	6.41 6.42 6.45	(mV) 84.2 89.5 88.5	•			
1 2 3 4 Average:	(°F/°C) 8.9 8.9 8.9 8.9 8.9	246.7 238.1 250.6 256.1 247.9	0.49 0.61 0.72 0.74	6.41 6.42 6.43 6.43	(mV) 84.2 89.5 88.5 87.2 87.4	(NTU) #DIV/0!	(ft)	(Fe II)	
1 2 3 4 Average:	(°F/°C) 8.9 8.9 8.9 8.9 8.9 TYPICAL A	(uS/cm) 246.7 238.1 250.6 256.1 247.9 NALYSIS AI	0.49 0.61 0.72 0.74 0.64	6.41 6.42 6.45 6.43 6.43	84.2 89.5 88.5 87.2 87.4	#DIV/0!	(ft)	(Fe II)	Observations
1 2 3 4 Average:	(°F/°C) 8.9 8.9 8.9 8.9 8.9 TYPICAL A	(uS/cm) 246.7 238.1 250.6 256.1 247.9 NALYSIS AI VC) (8010)	0.49 0.61 0.72 0.74 0.64 LOWED PE (8020) (NW	6.41 6.42 6.45 6.43 6.43 R BOTTLE	(mV) 84.2 89.5 88.5 87.2 87.4 TYPE (Circle ap WTPH-Gx) (BT	#DIV/0!	(ft)	(Fe II)	Observations OR
1 2 3 4 Average:	(°F/°C) 8.9 8.9 8.9 8.9 8.9 TYPICAL A (8260C SIM V (8270) (PAF	246.7 238.1 250.6 256.1 247.9 NALYSIS AI VC) (8010) () (NWTPH-	0.49 0.61 0.72 0.74 0.64 LOWED PE (8020) (NW	6.41 6.42 6.45 6.43 6.43 R BOTTLE TPH-G) (NV	84.2 89.5 88.5 87.2 87.4 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (#DIV/0! pplicable or write (EX) 8141) (Oil & Gre	(ft) non-standard an	(Fe II) nalysis below) WA WA WA	Observations
1 2 3 4 Average:	(°F/°C) 8.9 8.9 8.9 8.9 8.9 TYPICAL A (8260C SIM V (8270) (PAF (pH) (Condu	(uS/cm) 246.7 238.1 250.6 256.1 247.9 NALYSIS AI VC) (8010) I) (NWTPH- ctivity) (TD:	0.49 0.61 0.72 0.74 0.64 LOWED PE (8020) (NWTPH S) (TSS) (B	6.41 6.42 6.43 6.43 R BOTTLE TPH-G) (NV-Dx) (TPH-IOD) (Turbic	84.2 89.5 88.5 87.2 87.4 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity)	#DIV/0! #DIV/0! pplicable or write (EX) 8141) (Oil & Green (HCO3/CO3) (Oil (MCO3/CO3))	(ft) non-standard an	(Fe II) nalysis below) WA WA WA	Observations OR
1 2 3 4 Average:	(°F/°C) 8.9 8.9 8.9 8.9 TYPICAL A (8260C SIM V (8270) (PAH (pH) (Condu	(uS/cm) 246.7 238.1 250.6 256.1 247.9 NALYSIS AI VC) (8010) I) (NWTPH- letivity) (TD: C SM5310C)	0.49 0.61 0.72 0.74 0.64 LOWED PE (8020) (NWTPH S) (TSS) (E (Total PO4)	6.41 6.42 6.45 6.43 6.43 CR BOTTLE TPH-G) (NV-Dx) (TPH-OD) (Turbio (Total Kieda	84.2 89.5 88.5 87.2 87.4 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (#DIV/0! #DIV/0! pplicable or write (EX) 8141) (Oil & Green (HCO3/CO3) (Oil (MCO3/CO3))	(ft) non-standard an	(Fe II) nalysis below) WA WA WA	Observations OR
1 2 3 4 Average:	(°F/°C) 8.9 8.9 8.9 8.9 TYPICAL A (8260C SIM V (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid	(uS/cm) 246.7 238.1 250.6 256.1 247.9 NALYSIS AI (VC) (8010) I) (NWTPH- (ctivity) (TD: C SM5310C) e) (WAD Cy	(mg/L) 0.49 0.61 0.72 0.74 0.64 LOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) ranide) (Free	6.41 6.42 6.45 6.43 6.43 R BOTTLE TPH-G) (NV -Dx) (TPH-OD) (Turbic (Total Kieda Cyanide)	(mV) 84.2 89.5 88.5 87.2 87.4 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) hl Nitrogen) (NF	#DIV/0! #DIV/0! **Pplicable or write EX) 8141) (Oil & Gre	non-standard an	(Fe II) nalysis below) WA WA Solution W	Observations OR OR OR
1 2 3 4 Average:	(°F/°C) 8.9 8.9 8.9 8.9 TYPICAL A (8260C SIM V (8270) (PAH (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals)	(uS/cm) 246.7 238.1 250.6 256.1 247.9 NALYSIS AI VC) (8010) I) (NWTPH- ectivity) (TD: C SM5310C) e) (WAD Cy) (As) (Sb) (0.49 0.61 0.72 0.74 0.64 LOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) (Total PO4) (Total PO4)	6.41 6.42 6.45 6.43 6.43 RR BOTTLE TPH-G) (NV -Dx) (TPH-IOD) (Turbic (Total Kiedal Cyanide) () (Cd) (Co)	(mV) 84.2 89.5 88.5 87.2 87.4 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) (hl Nitrogen) (NF (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! **plicable or write EX) 8141) (Oil & Gre	non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average:	8.9 8.9 8.9 8.9 8.9 8.9 8.9 (8260C SIM V (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M.	(uS/cm) 246.7 238.1 250.6 256.1 247.9 NALYSIS AI VC) (8010) I) (NWTPH- lectivity) (TD: C SM5310C) e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb)	0.49 0.61 0.72 0.74 0.64 LOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) (Total PO4) (Total PO4)	6.41 6.42 6.45 6.43 6.43 RR BOTTLE TPH-G) (NV -Dx) (TPH-IOD) (Turbic (Total Kiedal Cyanide) () (Cd) (Co)	(mV) 84.2 89.5 88.5 87.2 87.4 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) (hl Nitrogen) (NF (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! **plicable or write EX) 8141) (Oil & Gre	non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average:	(°F/°C) 8.9 8.9 8.9 8.9 TYPICAL A (8260C SIM V (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	(uS/cm) 246.7 238.1 250.6 256.1 247.9 NALYSIS AI VC) (8010) I) (NWTPH- lectivity) (TD: C SM5310C) e) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	(mg/L) 0.49 0.61 0.72 0.74 0.64 LOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) ranide) (Free Ba) (Be) (Ca	6.41 6.42 6.45 6.43 6.43 RR BOTTLE TPH-G) (NV -Dx) (TPH-IOD) (Turbic (Total Kiedal Cyanide) () (Cd) (Co)	(mV) 84.2 89.5 88.5 87.2 87.4 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) (hl Nitrogen) (NF (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! **plicable or write EX) 8141) (Oil & Gre	non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average:	(°F/°C) 8.9 8.9 8.9 8.9 TYPICAL A (8260C SIM V (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	(uS/cm) 246.7 238.1 250.6 256.1 247.9 NALYSIS AI VC) (8010) I) (NWTPH- lectivity) (TD: C SM5310C) e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb)	(mg/L) 0.49 0.61 0.72 0.74 0.64 LOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) ranide) (Free Ba) (Be) (Ca	6.41 6.42 6.45 6.43 6.43 RR BOTTLE TPH-G) (NV -Dx) (TPH-IOD) (Turbic (Total Kiedal Cyanide) () (Cd) (Co)	(mV) 84.2 89.5 88.5 87.2 87.4 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) (hl Nitrogen) (NF (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! **plicable or write EX) 8141) (Oil & Gre	non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average:	(°F/°C) 8.9 8.9 8.9 8.9 TYPICAL A (8260C SIM V (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	(uS/cm) 246.7 238.1 250.6 256.1 247.9 NALYSIS AI VC) (8010) I) (NWTPH- lectivity) (TD: C SM5310C) e) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	(mg/L) 0.49 0.61 0.72 0.74 0.64 LOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) ranide) (Free Ba) (Be) (Ca	6.41 6.42 6.45 6.43 6.43 RR BOTTLE TPH-G) (NV -Dx) (TPH-IOD) (Turbic (Total Kiedal Cyanide) () (Cd) (Co)	(mV) 84.2 89.5 88.5 87.2 87.4 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) (hl Nitrogen) (NF (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! **plicable or write EX) 8141) (Oil & Gre	non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average:	(°F/°C) 8.9 8.9 8.9 8.9 TYPICAL A (8260C SIM V (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	(uS/cm) 246.7 238.1 250.6 256.1 247.9 NALYSIS AI VC) (8010) I) (NWTPH- lectivity) (TD: C SM5310C) e) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	(mg/L) 0.49 0.61 0.72 0.74 0.64 LOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) ranide) (Free Ba) (Be) (Ca	6.41 6.42 6.45 6.43 6.43 RR BOTTLE TPH-G) (NV -Dx) (TPH-IOD) (Turbic (Total Kiedal Cyanide) () (Cd) (Co)	(mV) 84.2 89.5 88.5 87.2 87.4 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) (hl Nitrogen) (NF (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! **plicable or write EX) 8141) (Oil & Gre	non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average:	(°F/°C) 8.9 8.9 8.9 8.9 TYPICAL A (8260C SIM V (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	(uS/cm) 246.7 238.1 250.6 256.1 247.9 NALYSIS AI VC) (8010) I) (NWTPH- lectivity) (TD: C SM5310C) e) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	(mg/L) 0.49 0.61 0.72 0.74 0.64 LOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) ranide) (Free Ba) (Be) (Ca	6.41 6.42 6.45 6.43 6.43 RR BOTTLE TPH-G) (NV -Dx) (TPH-IOD) (Turbic (Total Kiedal Cyanide) () (Cd) (Co)	(mV) 84.2 89.5 88.5 87.2 87.4 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) (hl Nitrogen) (NF (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! **plicable or write EX) 8141) (Oil & Gre	non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average:	(°F/°C) 8.9 8.9 8.9 8.9 8.9 TYPICAL A' (8260C SIM V (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	(uS/cm) 246.7 238.1 250.6 256.1 247.9 NALYSIS AI VC) (8010) I) (NWTPH- lectivity) (TD: C SM5310C) e) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	(mg/L) 0.49 0.61 0.72 0.74 0.64 LOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) ranide) (Free Ba) (Be) (Ca	6.41 6.42 6.45 6.43 6.43 RR BOTTLE TPH-G) (NV -Dx) (TPH-IOD) (Turbic (Total Kiedal Cyanide) () (Cd) (Co)	(mV) 84.2 89.5 88.5 87.2 87.4 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) (hl Nitrogen) (NF (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! **plicable or write EX) 8141) (Oil & Gre	non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average:	(°F/°C) 8.9 8.9 8.9 8.9 8.9 TYPICAL A' (8260C SIM V (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	(uS/cm) 246.7 238.1 250.6 256.1 247.9 NALYSIS AI VC) (8010) I) (NWTPH- lectivity) (TD: C SM5310C) e) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	(mg/L) 0.49 0.61 0.72 0.74 0.64 LOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) ranide) (Free Ba) (Be) (Ca	6.41 6.42 6.45 6.43 6.43 RR BOTTLE TPH-G) (NV -Dx) (TPH-IOD) (Turbic (Total Kiedal Cyanide) () (Cd) (Co)	(mV) 84.2 89.5 88.5 87.2 87.4 TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) (hl Nitrogen) (NF (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! **plicable or write EX) 8141) (Oil & Gre	non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F)	Observations OR OR OR



	e <u>:</u>	Boeing Rent	on		Project Number	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 21 /2022@	945		
Sample Num	ıber:	RGW232S-	220221		Weather:	CLOUDY 40'S			
Landau Repr	resentative:	AHA							
WATER LEV	EL/WELL/PU	IRGE DATA							
Well Conditio	n:	Secure (YES)		Damaged (N	(O)	Describe:	FLUSHMOUN	T	
DTW Before I	Purging (ft)	6.09	Time:	919	Flow through cel	ll vol.		GW Meter No.(s	SLOPE 2
Begin Purge:		2/ 21 /2022	920	End Purge:	Date/Time:	2/ 21 /2022 @	943	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	pm	(mV)	(NTU)	(ft)	Volume (gal)	Observations
	_					dings within the fo	~	>/= 1 flow	
	+/- 3%	+/- 3%		+/- 0.1 units		+/- 10%	< 0.3 ft	through cell	
923	11.2	427.1	1.86	6.35	78.2		6.43		
926	9.3	395.9	2.63	6.31	75.9		6.45		
929	8.3	368.2	3.37	6.29	79.3		6.49		
932	8.2	361.9	2.88	6.28	80.1		6.51		
935	8.1	356.7	1.86	6.28	79.9		6.54		
938	8.1	354.7	1.39	6.29	78.8		6.55		
					-		0.55		
941	8.0	352.6	1.31	6.29	78.5				
SAMPLE CO			D 1		D /D T	DI ADDED			
Sample Collec	eted With:	_	Bailer -	_	Pump/Pump Type	_		— • • • • • •	
Made of:		Stainless Stee		PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	h 🔲	Tap Rinse	DI Water	Dedicated			
(D. M	101)	□ 0.1		•					
(By Numerical	· ·	Other		No cor on	<u>—————————————————————————————————————</u>		TEN		
	· ·		sheen, etc.):	NO COLOR	<u>—————————————————————————————————————</u>	O ODOR, NMO SH	EEN		
Sample Descri	· ·		sheen, etc.):	NO COLOR	<u>—————————————————————————————————————</u>	O ODOR, NMO SH	EEN DTW	Ferrous iron	Comments/
	iption (color, t	turbidity, odor,			, LOW TURB, NO			Ferrous iron (Fe II)	Comments/ Observations
Sample Descri	iption (color, t	turbidity, odor,	D.O.		, LOW TURB, NO	Turbidity	DTW		
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	, LOW TURB, NO ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 8.0	Cond. (uS/cm) 351.7	D.O. (mg/L) 1.25	pH 6.29 6.29	ORP (mV) 78.1	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 8.0 8.0	Cond. (uS/cm) 351.7 351.8	D.O. (mg/L) 1.25 1.23	pH 6.29 6.29 6.29	ORP (mV) 78.1 78.0 77.9	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 8.0 8.0 8.0	Cond. (uS/cm) 351.7 351.8 351.9	D.O. (mg/L) 1.25 1.23 1.22	pH 6.29 6.29 6.29 6.29	ORP (mV) 78.1 78.0 77.9	Turbidity (NTU)	DTW		
Replicate 1 2 3	Temp (°F/°C) 8.0 8.0	Cond. (uS/cm) 351.7 351.8	D.O. (mg/L) 1.25 1.23	pH 6.29 6.29 6.29	ORP (mV) 78.1 78.0 77.9	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.0 8.0 8.0 8.0 7YPICAL A	Cond. (uS/cm) 351.7 351.8 351.9 351.8	D.O. (mg/L) 1.25 1.23 1.22 1.20 1.23 LOWED PE	6.29 6.29 6.29 6.29 6.29 6.29	78.1 78.0 77.9 78.0 77.9	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.0 8.0 8.0 8.0 8.0 8.0	Cond. (uS/cm) 351.7 351.8 351.9 351.8 NALYSIS AL (8010) (8020)	D.O. (mg/L) 1.25 1.23 1.22 1.20 1.23 LOWED PE	6.29 6.29 6.29 6.29 6.29 6.29 6.29 6.29	78.1 78.0 77.9 78.0 77.9 77.9 78.0	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 8.0 8.0 8.0 8.0 7YPICAL A (8260-SIM) (8270D) (PA	Cond. (uS/cm) 351.7 351.8 351.9 351.8 NALYSIS AL (8010) (8020)	D.O. (mg/L) 1.25 1.23 1.22 1.20 1.23 LOWED PE) (NWTPHD) (NWTP	6.29 6.29 6.29 6.29 6.29 6.29 6.29 GR BOTTLE G) (NWTPF	ORP (mV) 78.1 78.0 77.9 78.0 TYPE (Circle ap H-Gx) (BTEX) 1-HCID) (8081)	#DIV/0!	DTW (ft) non-standard are	nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.0 8.0 8.0 8.0 7YPICAL A (8260-SIM) (8270D) (PA	Cond. (uS/cm) 351.7 351.8 351.9 351.8 NALYSIS AL (8010) (8020) AH) (NWTPH lectivity) (TDS)	1.25 1.23 1.22 1.20 1.23 LOWED PE (NWTPHD) (NWTP	6.29 6.29 6.29 6.29 6.29 6.29 6.10 6.29 6.29 6.29 6.29 6.29 6.29 6.29 6.29	ORP (mV) 78.1 78.0 77.9 78.0 TYPE (Circle ap H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity)	#DIV/0! #DIV/0! pplicable or write to the second (8141) (Oil & Grand (HCO3/CO3) (Oil & Grand (HCO3/CO3)) (Oil & Grand (DTW (ft) non-standard are	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C)	Cond. (uS/cm) 351.7 351.8 351.9 351.8 NALYSIS AL (8010) (8020) AH) (NWTPH activity) (TDS C5310C) (Total	1.25 1.23 1.22 1.20 1.23 LOWED PE) (NWTPHD) (NWTPHD) (NWTPD) (TSS) (Bal PO4) (To	6.29 6.29 6.29 6.29 6.29 6.29 6.29 6.10 6.29 6.29 6.29 CR BOTTLE G) (NWTPF H-Dx) (TPF H-Dx) (TPF H-Dx) (Turbic tal Kiedahl N	ORP (mV) 78.1 78.0 77.9 78.0 TYPE (Circle ap H-Gx) (BTEX) 1-HCID) (8081)	#DIV/0! #DIV/0! pplicable or write to the second (8141) (Oil & Grand (HCO3/CO3) (Oil & Grand (HCO3/CO3)) (Oil & Grand (DTW (ft) non-standard are	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C)	Cond. (uS/cm) 351.7 351.8 351.9 351.8 NALYSIS AL (8010) (8020) AH) (NWTPH (ctivity) (TDS) (C5310C) (Totale) (WAD Cyze	1.25 1.23 1.22 1.20 1.23 LOWED PE) (NWTPH-D) (NWTPH) (TSS) (Bal PO4) (Tounide) (Free	6.29 6.29 6.29 6.29 6.29 6.29 6.29 CR BOTTLE G) (NWTPF H-Dx) (TPF HOD) (Turbic tal Kiedahl N Cyanide)	78.1 78.0 77.9 78.0 77.9 78.0 78.0 77.9 78.0 78.0 78.0 79.9 78.0 79.9 78.0 79.9 78.0 79.9 78.0 79.9 78.0 79.9 79.9 79.9 79.9 79.9 79.9 79.9 79	#DIV/0! #DIV/0! pplicable or write to the second (8141) (Oil & Grand (HCO3/CO3) (Oil & Grand (HCO3/CO3)) (Oil & Grand (DTW (ft) non-standard and rease)	(Fe II) malysis below) WA WA WA Sign (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.0 8.0 8.0 8.0 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 351.7 351.8 351.9 351.8 NALYSIS AL (8010) (8020) AH) (NWTPH lectivity) (TDS C5310C) (Tota e) (WAD Cya e) (As) (Sb) (E	D.O. (mg/L) 1.25 1.23 1.22 1.20 1.23 LOWED PE 0 (NWTPHD) (NWTPH) 1 (TSS) (B al PO4) (To unide) (Free Ba) (Be) (Ca	6.29 6.29 6.29 6.29 6.29 6.29 6.10 6.29 6.29 6.29 6.29 6.29 6.29 6.29 6.29	78.1 78.0 77.9 78.0 77.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 71.9 71.9 71.9 71.9 71.9 71.9 71.9	#DIV/0! #DIV/0! pplicable or write in the interest of the in	DTW (ft) non-standard arease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA (S) (NO2) (F) Tl) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.0 8.0 8.0 8.0 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 351.7 351.8 351.9 351.8 NALYSIS AL (8010) (8020) AH) (NWTPH (activity) (TDS) (C5310C) (Total) (e) (WAD Cyal) (As) (Sb) (Eetals) (As) (Sb) (Eetals) (As) (Sb)	D.O. (mg/L) 1.25 1.23 1.22 1.20 1.23 LOWED PE 0 (NWTPHD) (NWTPH) 1 (TSS) (B al PO4) (To unide) (Free Ba) (Be) (Ca	6.29 6.29 6.29 6.29 6.29 6.29 6.10 6.29 6.29 6.29 6.29 6.29 6.29 6.29 6.29	78.1 78.0 77.9 78.0 77.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 71.9 71.9 71.9 71.9 71.9 71.9 71.9	#DIV/0! #DIV/0! pplicable or write in the interest of the in	DTW (ft) non-standard arease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA (S) (NO2) (F) Tl) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.0 8.0 8.0 8.0 8.0 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 351.7 351.8 351.9 351.8 NALYSIS AL (8010) (8020) AH) (NWTPH (activity) (TDS) (C5310C) (Total) (e) (WAD Cyal) (As) (Sb) (Eetals) (As) (Sb) (Eetals) (As) (Sb)	1.25 1.23 1.22 1.20 1.23 LOWED PE) (NWTPHD) (NWTPHD) (NWTPHD) (TSS) (Bal PO4) (To anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.29 6.29 6.29 6.29 6.29 6.29 6.10 6.29 6.29 6.29 6.29 6.29 6.29 6.29 6.29	78.1 78.0 77.9 78.0 77.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 71.9 71.9 71.9 71.9 71.9 71.9 71.9	#DIV/0! #DIV/0! pplicable or write in the interest of the in	DTW (ft) non-standard arease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA (S) (NO2) (F) Tl) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.0 8.0 8.0 8.0 8.0 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 351.7 351.8 351.9 351.8 NALYSIS AL (8010) (8020) AH) (NWTPH activity) (TDS (25310C) (Total (e) (WAD Cyal (b) (As) (Sb) (Eletals) (As) (Sb) (g short list)	1.25 1.23 1.22 1.20 1.23 LOWED PE) (NWTPHD) (NWTPHD) (NWTPHD) (TSS) (Bal PO4) (To anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.29 6.29 6.29 6.29 6.29 6.29 6.10 6.29 6.29 6.29 6.29 6.29 6.29 6.29 6.29	78.1 78.0 77.9 78.0 77.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 71.9 71.9 71.9 71.9 71.9 71.9 71.9	#DIV/0! #DIV/0! pplicable or write in the interest of the in	DTW (ft) non-standard arease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA (S) (NO2) (F) Tl) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.0 8.0 8.0 8.0 8.0 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 351.7 351.8 351.9 351.8 NALYSIS AL (8010) (8020) AH) (NWTPH activity) (TDS (25310C) (Total (e) (WAD Cyal (b) (As) (Sb) (Eletals) (As) (Sb) (g short list)	1.25 1.23 1.22 1.20 1.23 LOWED PE) (NWTPHD) (NWTPHD) (NWTPHD) (TSS) (Bal PO4) (To anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.29 6.29 6.29 6.29 6.29 6.29 6.10 6.29 6.29 6.29 6.29 6.29 6.29 6.29 6.29	78.1 78.0 77.9 78.0 77.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 71.9 71.9 71.9 71.9 71.9 71.9 71.9	#DIV/0! #DIV/0! pplicable or write in the interest of the in	DTW (ft) non-standard arease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA (S) (NO2) (F) Tl) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.0 8.0 8.0 8.0 8.0 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 351.7 351.8 351.9 351.8 NALYSIS AL (8010) (8020) AH) (NWTPH activity) (TDS (25310C) (Total (e) (WAD Cyal (b) (As) (Sb) (Eletals) (As) (Sb) (g short list)	1.25 1.23 1.22 1.20 1.23 LOWED PE) (NWTPHD) (NWTPHD) (NWTPHD) (TSS) (Bal PO4) (To anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.29 6.29 6.29 6.29 6.29 6.29 6.10 6.29 6.29 6.29 6.29 6.29 6.29 6.29 6.29	78.1 78.0 77.9 78.0 77.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 71.9 71.9 71.9 71.9 71.9 71.9 71.9	#DIV/0! #DIV/0! pplicable or write in the interest of the in	DTW (ft) non-standard arease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA (S) (NO2) (F) Tl) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.0 8.0 8.0 8.0 8.0 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 351.7 351.8 351.9 351.8 NALYSIS AL (8010) (8020) AH) (NWTPH activity) (TDS (25310C) (Total (e) (WAD Cyal (b) (As) (Sb) (Eletals) (As) (Sb) (g short list)	1.25 1.23 1.22 1.20 1.23 LOWED PE) (NWTPHD) (NWTPHD) (NWTPHD) (TSS) (Bal PO4) (To anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.29 6.29 6.29 6.29 6.29 6.29 6.10 6.29 6.29 6.29 6.29 6.29 6.29 6.29 6.29	78.1 78.0 77.9 78.0 77.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 71.9 71.9 71.9 71.9 71.9 71.9 71.9	#DIV/0! #DIV/0! pplicable or write in the interest of the in	DTW (ft) non-standard arease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA (S) (NO2) (F) Tl) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 8.0 8.0 8.0 8.0 8.0 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 351.7 351.8 351.9 351.8 NALYSIS AL (8010) (8020) AH) (NWTPH activity) (TDS (25310C) (Total (e) (WAD Cyal (b) (As) (Sb) (Eletals) (As) (Sb) (g short list)	1.25 1.23 1.22 1.20 1.23 LOWED PE) (NWTPHD) (NWTPHD) (NWTPHD) (TSS) (Bal PO4) (To anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.29 6.29 6.29 6.29 6.29 6.29 6.10 6.29 6.29 6.29 6.29 6.29 6.29 6.29 6.29	78.1 78.0 77.9 78.0 77.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 78.0 71.9 71.9 71.9 71.9 71.9 71.9 71.9 71.9	#DIV/0! #DIV/0! pplicable or write in the interest of the in	DTW (ft) non-standard arease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA (S) (NO2) (F) Tl) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ie:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 21 /2022@	1048		
Sample Num	nber:	RGW234S-	220221		Weather:	40S OC			
Landau Repr	resentative:	AHA/JAM							
WATER LEV	EL/WELL/PU	IRGE DATA							
Well Condition	on:	Secure (YES)	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	6.62	Time:		Flow through ce	ll vol.		GW Meter No.(s	HERON #2
	Date/Time:			End Purge:	_	2/ 21 /2022 @	1045	Gallons Purged:	
Purge water d			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATMI	
r arge water a	•		-		C	_			
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	` /	` '		ters for three	` '	dings within the fo	` '	>/= 1 flow	Obscivations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1025	9.9	198.6	3.19	6.20	28.5		6.62		-
1028	9.1	182.4	3.10	6.20	10.4		6.62		
1031	8.8	170.0	2.48	6.20	4.8		6.62		
					-				
1034	8.6	163.1	1.98	6.20	-0.3		6.62		_
1037	8.4	159.1	1.55	6.20	-7.4		6.62		
1040	8.2	157.7	1.45	6.19	-9.6				
1043	7.9	155.8	1.43	6.19	-11.7				
SAMPLE CO	LLECTION D	ATA							
Sample Collec	cted With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Was	sh 🗖	Tap Rinse	DI Water	Dedicated	_	_	
(By Numerica	_	Other							
		ii ii Otiiei							
		-	sheen, etc.):	PALE YELL	OW, MEDIUM T	URB. NO ODOR.	NO SHEEN		
		-	, sheen, etc.):	PALE YELL	OW, MEDIUM 1	TURB, NO ODOR,	NO SHEEN		
		-	, sheen, etc.) <u>:</u>	PALE YELL	OW, MEDIUM 1	TURB, NO ODOR, Turbidity	NO SHEEN DTW	Ferrous iron	Comments/
Sample Descr	ription (color, t	turbidity, odor	_					Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	Temp	turbidity, odor	D.O.		ORP	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C) 7.8	Cond. (uS/cm) 155.6	D.O. (mg/L)	pH 6.19	ORP	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 7.8 7.8	Cond. (uS/cm) 155.6 155.4	D.O. (mg/L) 1.42 1.41	pH 6.19 6.19 6.19	ORP	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 7.8 7.8 7.8	Cond. (uS/cm) 155.6 155.4 155.3	D.O. (mg/L) 1.42 1.41 1.41	pH 6.19 6.19 6.19 6.19	ORP	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 7.8 7.8	Cond. (uS/cm) 155.6 155.4	D.O. (mg/L) 1.42 1.41	pH 6.19 6.19 6.19	ORP	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 7.8 7.8 7.8 7.8 7.8	Cond. (uS/cm) 155.6 155.4 155.3 155.1	D.O. (mg/L) 1.42 1.41 1.41 1.41	6.19 6.19 6.19 6.19 6.19	ORP (mV)	Turbidity	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 7.8 7.8 7.8 7.8 7.8 7.8 (8260-SIM)	Cond. (uS/cm) 155.6 155.4 155.3 155.1 155.4 NALYSIS AI (8010) (8020	D.O. (mg/L) 1.42 1.41 1.41 1.41 1.41 1.41 1.41 1.41	6.19 6.19 6.19 6.19 6.19 6.19 6.19 6.19	ORP (mV)	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 7.8 7.8 7.8 7.8 7.8 7.8 (8260-SIM) (8270D) (PA	Cond. (uS/cm) 155.6 155.4 155.3 155.1 155.4 NALYSIS AI (8010) (8020)	D.O. (mg/L) 1.42 1.41 1.41 1.41 1.41 2.LOWED PE D) (NWTPH-	6.19 6.19 6.19 6.19 6.19 6.19 6.19 R BOTTLE G) (NWTPHH-Dx) (TPH	ORP (mV) TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & G	DTW (ft) non-standard and arease)	(Fe II) allysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.8 7.8 7.8 7.8 (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 155.6 155.4 155.3 155.1 155.4 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD:	D.O. (mg/L) 1.42 1.41 1.41 1.41 1.41 1.40 LOWED PE D) (NWTPH-H-D) (NWTP S) (TSS) (B	6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE G) (NWTPHH-Dx) (TPHOD) (Turbic	ORP (mV) TYPE (Circle aplex) I-HCID) (8081) dity) (Alkalinity	Turbidity (NTU) pplicable or write (8141) (Oil & G	DTW (ft) non-standard and arease)	(Fe II) allysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	Cond. (uS/cm) 155.6 155.4 155.3 155.1 155.4 NALYSIS AI (8010) (8020 AH) (NWTPH cetivity) (TD: 25310C) (To	D.O. (mg/L) 1.42 1.41 1.41 1.41 1.41 1.40 LOWED PE D) (NWTPH-H-D) (NWTP	6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N	ORP (mV) TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & G	DTW (ft) non-standard and arease)	(Fe II) allysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.8 7.8 7.8 7.8 (8260-SIM) (8270D) (PA (pH) (Conduction) (TOC (Total Cyanid	Cond. (uS/cm) 155.6 155.4 155.3 155.1 155.4 NALYSIS AI (8010) (8020 AH) (NWTPH (NWTPH (CT)) (TO) 155310C) (To) (e) (WAD Cy	D.O. (mg/L) 1.42 1.41 1.41 1.41 1.41 1.41 LLOWED PE D) (NWTPH-H-D) (NWT	6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide)	ORP (mV) TYPE (Circle apled) H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (O) (NO3/NO2)	DTW (ft) non-standard and arease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA NO2) (F)	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.8 7.8 7.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction) (Total Cyanid (Total Metals)	Cond. (uS/cm) 155.6 155.4 155.3 155.1 155.4 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: (25310C) (To e) (WAD Cy) (As) (Sb) (D.O. (mg/L) 1.42 1.41 1.41 1.41 1.41 1.40 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towanide) (Free Ba) (Be) (Ca	6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) TYPE (Circle apples of the content of the	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA 3) (NO2) (F) Tl) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.8 7.8 7.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M.	Cond. (uS/cm) 155.6 155.4 155.3 155.1 155.4 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: C5310C) (To e) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (ctals) (As) (Sb)	D.O. (mg/L) 1.42 1.41 1.41 1.41 1.41 1.40 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towanide) (Free Ba) (Be) (Ca	6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) TYPE (Circle apples of the content of the	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA 3) (NO2) (F) Tl) (V) (Zn) (Hg	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.8 7.8 7.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 155.6 155.4 155.3 155.1 155.4 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: C5310C) (To e) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (ctals) (As) (Sb)	D.O. (mg/L) 1.42 1.41 1.41 1.41 1.41 1.40 LOWED PE D) (NWTPH-I-D) (NWTP	6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) TYPE (Circle apples of the content of the	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA 3) (NO2) (F) Tl) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.8 7.8 7.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 155.6 155.4 155.3 155.1 155.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb; (g short list)	D.O. (mg/L) 1.42 1.41 1.41 1.41 1.41 1.40 LOWED PE D) (NWTPH-I-D) (NWTP	6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) TYPE (Circle apples of the content of the	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F) Tl) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.8 7.8 7.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 155.6 155.4 155.3 155.1 155.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb; (g short list)	D.O. (mg/L) 1.42 1.41 1.41 1.41 1.41 1.40 LOWED PE D) (NWTPH-I-D) (NWTP	6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) TYPE (Circle apples of the content of the	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F) Tl) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.8 7.8 7.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 155.6 155.4 155.3 155.1 155.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb; (g short list)	D.O. (mg/L) 1.42 1.41 1.41 1.41 1.41 1.40 LOWED PE D) (NWTPH-I-D) (NWTP	6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) TYPE (Circle apples of the content of the	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F) Tl) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.8 7.8 7.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 155.6 155.4 155.3 155.1 155.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb; (g short list)	D.O. (mg/L) 1.42 1.41 1.41 1.41 1.41 1.40 LOWED PE D) (NWTPH-I-D) (NWTP	6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) TYPE (Circle apples of the content of the	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F) Tl) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3 1 1 Duplicate Sam	Temp (°F/°C) 7.8 7.8 7.8 7.8 7.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 155.6 155.4 155.3 155.1 155.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb; (g short list)	D.O. (mg/L) 1.42 1.41 1.41 1.41 1.41 1.40 LOWED PE D) (NWTPH-I-D) (NWTP	6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) TYPE (Circle apples of the content of the	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F) Tl) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.8 7.8 7.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 155.6 155.4 155.3 155.1 155.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb; (g short list)	D.O. (mg/L) 1.42 1.41 1.41 1.41 1.41 1.40 LOWED PE D) (NWTPH-I-D) (NWTP	6.19 6.19 6.19 6.19 6.19 6.19 6.19 CR BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) TYPE (Circle apples of the content of the	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F) Tl) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	.e:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 21 /2022@	1150		
Sample Num	nber:	RGW235I-	220221		Weather:	40S OC			
Landau Repr	resentative:	AHA/JAM							
WATER LEV	'EL/WELL/PU	IRGE DATA							
Well Condition	ı IRON OXID	Secure (YES)	Damaged (N	(O)	Describe:	FLUSH		
DTW Before	Purging (ft)	6.13	Time:	11:21	Flow through ce	ll vol.		GW Meter No.(s	HERON 2
Begin Purge:				End Purge:	-	2/ 21 /2022 @	1149	Gallons Purged:	
Purge water d			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATMI	
r arge water a					C	_			
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	, ,		· · ·	ters for three	. ,	dings within the fo	` '	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1128	10.4	145.5	0.69	6.24	37.7		6.13		
1131	9.5	146.0	0.80	6.28	19.2		6.13		
1134	8.9	144.1	0.84	6.30	9.7		6.13		
-									
1137	8.4	143.1	0.84	6.30	5.3		6.13		
1140	8.1	141.7	0.82	6.31	0.8		6.13		
1143	8.0	141.2	0.81	6.31	-0.9		6.13		
1146	7.8	140.6	0.81	6.31	-2.3		6.13		
SAMPLE CO	LLECTION D	ATA							
Sample Collec	cted With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Was	sh 🗖	Tap Rinse	DI Water	Dedicated	_	_	
(By Numerica	_								
	d Order)	II II Other							
. •		Other	sheen etc.):	CLEAR NO	ODOR NO SHEE	EN LOW TURB			
. •		-	, sheen, etc.):	CLEAR NO	ODOR NO SHEE	EN LOW TURB			
. •		-	D.O.	CLEAR NO	ODOR NO SHEE	EN LOW TURB Turbidity	DTW	Ferrous iron	Comments/
Sample Descr	ription (color,	turbidity, odor					DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	Temp	turbidity, odor	D.O.		ORP	Turbidity			
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity			
Replicate 1 2	Temp (°F/°C) 7.8	Cond. (uS/cm) 140.5	D.O. (mg/L) 0.81	pH 6.32 6.31	ORP (mV) -2.6	Turbidity			
Replicate 1 2 3	Temp (°F/°C) 7.8 7.8	Cond. (uS/cm) 140.5 140.4	D.O. (mg/L) 0.81 0.81	pH 6.32 6.31 6.31	ORP (mV) -2.6 -2.8 -2.9	Turbidity			
Replicate 1 2 3 4	Temp (°F/°C) 7.8 7.7 7.7	Cond. (uS/cm) 140.5 140.4 140.3	D.O. (mg/L) 0.81 0.81 0.83	6.32 6.31 6.32	ORP (mV) -2.6 -2.8 -2.9	Turbidity			
Replicate 1 2 3	Temp (°F/°C) 7.8 7.8	Cond. (uS/cm) 140.5 140.4	D.O. (mg/L) 0.81 0.81	pH 6.32 6.31 6.31	ORP (mV) -2.6 -2.8 -2.9	Turbidity			
Replicate 1 2 3 4 Average:	Temp (°F/°C) 7.8 7.8 7.7 7.7	Cond. (uS/cm) 140.5 140.5 140.4 140.3	D.O. (mg/L) 0.81 0.81 0.83 0.82	6.32 6.31 6.32 6.32	ORP (mV) -2.6 -2.8 -2.9 -3.1 -2.9	Turbidity	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 7.8 7.8 7.7 7.7 7.8	Cond. (uS/cm) 140.5 140.5 140.4 140.3	D.O. (mg/L) 0.81 0.83 0.82 0.82	6.32 6.31 6.32 6.32 6.32 6.32	ORP (mV) -2.6 -2.8 -2.9 -3.1 -2.9 TYPE (Circle a)	Turbidity (NTU)	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 	Cond. (uS/cm) 140.5 140.4 140.3 140.4 NALYSIS AI (8010) (8020)	D.O. (mg/L) 0.81 0.81 0.82 0.82 LLOWED PE 0) (NWTPH-H-D) (NWTP	6.32 6.31 6.32 6.32 6.32 6.32 GR BOTTLE G) (NWTPH	ORP (mV) -2.6 -2.8 -2.9 -3.1 -2.9 TYPE (Circle ap H-Gx) (BTEX) H-HCID) (8081)	Turbidity (NTU) pplicable or write	non-standard an	(Fe II) allysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.7 7.7 7.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction)	Cond. (uS/cm) 140.5 140.4 140.3 140.4 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD:	D.O. (mg/L) 0.81 0.81 0.83 0.82 0.82 LLOWED PE D) (NWTPH-H-D) (NWTPH-H-	6.32 6.31 6.32 6.32 6.32 6.32 6.39 6.30 6.31 6.31 6.32 6.32 6.32 6.32 6.32 6.30 6.31	ORP (mV) -2.6 -2.8 -2.9 -3.1 -2.9 TYPE (Circle apolity) (BTEX) I-HCID) (8081) dity) (Alkalinity)	Turbidity (NTU) pplicable or write (8141) (Oil & Gillow) (HCO3/CO3) (4	non-standard an	(Fe II) allysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 7.8 7.8 7.7 7.7 7.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 140.5 140.5 140.4 140.3 140.4 NALYSIS AI (8010) (8020 AH) (NWTPH cetivity) (TD: 25310C) (To	D.O. (mg/L) 0.81 0.83 0.82 0.82 LLOWED PE D) (NWTPH-H-D) (NWT	6.32 6.31 6.32 6.32 6.32 6.32 R BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N	ORP (mV) -2.6 -2.8 -2.9 -3.1 -2.9 TYPE (Circle ap H-Gx) (BTEX) H-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & Gillow) (HCO3/CO3) (4	non-standard an	(Fe II) allysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.7 7.7 7.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction) (TOC (Total Cyanid	Cond. (uS/cm) 140.5 140.5 140.4 140.3 140.4 NALYSIS AI (8010) (8020 AH) (NWTPH lectivity) (TD: 25310C) (To e) (WAD Cy	D.O. (mg/L) 0.81 0.83 0.82 0.82 LLOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (TSS) (Btal PO4) (Towanide) (Free	6.32 6.31 6.32 6.32 6.32 6.32 6.39 6.30 6.30 6.31 6.31 6.32 6.32 6.32 6.32 6.32 6.32 6.32 6.32	ORP (mV) -2.6 -2.8 -2.9 -3.1 -2.9 TYPE (Circle all H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	Turbidity (NTU) pplicable or write (8141) (Oil & G.) (HCO3/CO3) (O.) (NO3/NO2)	non-standard and rease)	(Fe II) malysis below) WA WA WA NO2) (F)	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.7 7.7 7.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 140.5 140.5 140.4 140.3 140.4 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: 25310C) (To e) (WAD Cy) (As) (Sb) (D.O. (mg/L) 0.81 0.83 0.82 0.82 LLOWED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (TSS) (Btal PO4) (Towanide) (Free Ba) (Be) (Ca	6.32 6.31 6.32 6.32 6.32 6.39 6.30 6.30 6.30 6.31 6.31 6.32 6.32 6.32 6.32 6.31 6.32 6.32 6.32 6.32 6.32 6.32 6.32 6.32	ORP (mV) -2.6 -2.8 -2.9 -3.1 -2.9 TYPE (Circle ald H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3) (Cr) (Cu) (Fe)	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F) T1) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.7 7.7 7.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 140.5 140.4 140.3 140.4 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: c5310C) (To e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.81 0.83 0.82 0.82 LLOWED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (TSS) (Btal PO4) (Towanide) (Free Ba) (Be) (Ca	6.32 6.31 6.32 6.32 6.32 6.39 6.30 6.30 6.30 6.31 6.31 6.32 6.32 6.32 6.32 6.31 6.32 6.32 6.32 6.32 6.32 6.32 6.32 6.32	ORP (mV) -2.6 -2.8 -2.9 -3.1 -2.9 TYPE (Circle ald H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3) (Cr) (Cu) (Fe)	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F) T1) (V) (Zn) (Hg	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.7 7.7 7.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 140.5 140.5 140.4 140.3 140.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (e) (WAD Cy)) (As) (Sb) (etals) (As) (Sb; (g short list)	D.O. (mg/L) 0.81 0.83 0.82 0.82 LOWED PE O) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Toward PE) (Tow	6.32 6.31 6.32 6.32 6.32 6.39 6.30 6.30 6.30 6.30 6.31 6.31 6.32 6.32 6.32 6.32 6.32 6.32 6.32 6.32	ORP (mV) -2.6 -2.8 -2.9 -3.1 -2.9 TYPE (Circle ald H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3) (Cr) (Cu) (Fe)	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F) T1) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.7 7.7 7.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 140.5 140.4 140.3 140.4 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: c5310C) (To e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.81 0.83 0.82 0.82 LOWED PE O) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Toward PE) (Tow	6.32 6.31 6.32 6.32 6.32 6.39 6.30 6.30 6.30 6.30 6.31 6.31 6.32 6.32 6.32 6.32 6.32 6.32 6.32 6.32	ORP (mV) -2.6 -2.8 -2.9 -3.1 -2.9 TYPE (Circle ald H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3) (Cr) (Cu) (Fe)	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F) T1) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.7 7.7 7.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 140.5 140.5 140.4 140.3 140.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (e) (WAD Cy)) (As) (Sb) (etals) (As) (Sb; (g short list)	D.O. (mg/L) 0.81 0.83 0.82 0.82 LOWED PE O) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Toward PE) (Tow	6.32 6.31 6.32 6.32 6.32 6.39 6.30 6.30 6.30 6.30 6.31 6.31 6.32 6.32 6.32 6.32 6.32 6.32 6.32 6.32	ORP (mV) -2.6 -2.8 -2.9 -3.1 -2.9 TYPE (Circle ald H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3) (Cr) (Cu) (Fe)	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F) T1) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.7 7.7 7.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 140.5 140.5 140.4 140.3 140.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (e) (WAD Cy)) (As) (Sb) (etals) (As) (Sb; (g short list)	D.O. (mg/L) 0.81 0.83 0.82 0.82 LOWED PE O) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Toward PE) (Tow	6.32 6.31 6.32 6.32 6.32 6.39 6.30 6.30 6.30 6.30 6.31 6.31 6.32 6.32 6.32 6.32 6.32 6.32 6.32 6.32	ORP (mV) -2.6 -2.8 -2.9 -3.1 -2.9 TYPE (Circle ald H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3) (Cr) (Cu) (Fe)	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F) T1) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.7 7.7 7.8 TYPICAL A (8260-SIM) (8270D) (PA (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 140.5 140.5 140.4 140.3 140.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (e) (WAD Cy)) (As) (Sb) (etals) (As) (Sb; (g short list)	D.O. (mg/L) 0.81 0.83 0.82 0.82 LOWED PE O) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Toward PE) (Tow	6.32 6.31 6.32 6.32 6.32 6.39 6.30 6.30 6.30 6.30 6.31 6.31 6.32 6.32 6.32 6.32 6.32 6.32 6.32 6.32	ORP (mV) -2.6 -2.8 -2.9 -3.1 -2.9 TYPE (Circle ald H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3) (Cr) (Cu) (Fe)	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F) T1) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.7 7.7 7.8 TYPICAL A (8260-SIM) (8270D) (PA (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 140.5 140.5 140.4 140.3 140.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (e) (WAD Cy)) (As) (Sb) (etals) (As) (Sb; (g short list)	D.O. (mg/L) 0.81 0.83 0.82 0.82 LOWED PE O) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Toward PE) (Tow	6.32 6.31 6.32 6.32 6.32 6.39 6.30 6.30 6.30 6.30 6.31 6.31 6.32 6.32 6.32 6.32 6.32 6.32 6.32 6.32	ORP (mV) -2.6 -2.8 -2.9 -3.1 -2.9 TYPE (Circle ald H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3) (Cr) (Cu) (Fe)	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F) T1) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.8 7.8 7.7 7.7 7.8 TYPICAL A (8260-SIM) (8270D) (PA (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 140.5 140.5 140.4 140.3 140.4 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (e) (WAD Cy)) (As) (Sb) (etals) (As) (Sb; (g short list)	D.O. (mg/L) 0.81 0.83 0.82 0.82 LOWED PE O) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Toward PE) (Tow	6.32 6.31 6.32 6.32 6.32 6.39 6.30 6.30 6.30 6.30 6.31 6.31 6.32 6.32 6.32 6.32 6.32 6.32 6.32 6.32	ORP (mV) -2.6 -2.8 -2.9 -3.1 -2.9 TYPE (Circle ald H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3) (Cr) (Cu) (Fe)	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Good (NO3/NO2)) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F) T1) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ne:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 21 /2022@	940		
Sample Nun	nber:	RGW236S-	220221		Weather:	40S OC			
Landau Rep	resentative:	AHA/JAM							
WATER LEV	VEL/WELL/PU	IRGE DATA							
	oı IRON OXID)	Damaged (N	(O)	Describe:	FLUSH		
DTW Before		5.89	Time:	• ,	Flow through ce	ll vol		GW Meter No.(s	HERON #2
	Date/Time:		914	End Purge:		2/ 21 /2022 @	938	Gallons Purged:	
Purge water of		2/ 21 /2022	55-gal Drum		Storage Tank	Ground	_	SITE TREATM	
i uige water c	nsposed to.		55-gai Diuiii		Storage Talik	Ш Ground	Other	SHE IKEAIWI	ENTSTSTEM
Time	Temp (°F/°C)	Cond.	D.O.	pН	ORP (mV)	Turbidity (NTU)	DTW	Internal Purge	Comments/ Observations
Time	` /	(uS/cm) ls: Stablizatio	(mg/L) on of Parame	ters for three	` /	dings within the fo	(ft) ollowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units		+/- 10%	< 0.3 ft	through cell	
917	10.8	217.1	3.13	6.44	101.9		5.91		
920	10.0	211.3	2.68	6.29	70.6		5.90		
923		202.9		6.22	54.8	-	5.90	-	
			2.55				3.90		
926	7.9	195.9	2.33	6.19	46.1				
929	7.4	189.2	2.29	6.17	40.3				
932	6.8	183.1	2.16	6.14	36.4				
935	6.6	180.4	2.09	6.11	36.5				
							· 		
SAMPLE CO	DLLECTION D	ΔΤΔ					·		
Sample Colle			Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	
					₩		U outer	Bedicated	
Decon Proced		Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	ii Oraer)	Other							
Camala Dana			-lt-).	DALE VELL	OW MEDIUM T	LIDD NO ODOD N	O CHEEN		
Sample Descri	ription (color, t	turbidity, odor	, sheen, etc.):	PALE YELL	OW MEDIUM T	URB NO ODOR N	O SHEEN		
	ription (color, t	turbidity, odor	D.O.	PALE YELL	OW MEDIUM T	URB NO ODOR N	O SHEEN DTW	Ferrous iron	Comments/
Sample Description Replicate			_					Ferrous iron (Fe II)	Comments/ Observations
	Temp	Cond.	D.O.		ORP	Turbidity	DTW		
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.11	ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 6.5	Cond. (uS/cm) 179.8 179.3	D.O. (mg/L) 2.07	pH 6.11	ORP (mV) 36.5	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 6.5 6.5	Cond. (uS/cm) 179.8 179.3	D.O. (mg/L) 2.07 2.08	pH 6.11 6.11 6.10	ORP (mV) 36.5 36.4	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 6.5	Cond. (uS/cm) 179.8 179.3	D.O. (mg/L) 2.07	pH 6.11	ORP (mV) 36.5	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 6.5 6.5	Cond. (uS/cm) 179.8 179.3	D.O. (mg/L) 2.07 2.08	pH 6.11 6.11 6.10	ORP (mV) 36.5 36.4	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 6.5 6.5 6.4 6.4	Cond. (uS/cm) 179.8 179.3 179.1 179.0 179.3	D.O. (mg/L) 2.07 2.08 2.07 2.05 2.07	6.11 6.11 6.10 6.11 6.11	ORP (mV) 36.5 36.4 36.5 36.5	Turbidity	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.5 6.5 6.4 6.4 6.5	Cond. (uS/cm) 179.8 179.3 179.1 179.0 179.3	D.O. (mg/L) 2.07 2.08 2.07 2.05 2.07	6.11 6.11 6.10 6.11 6.11 6.11	ORP (mV) 36.5 36.4 36.5 36.5 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.5 6.5 6.4 6.4 6.5 TYPICAL A' (8260-SIM)	Cond. (uS/cm) 179.8 179.3 179.1 179.0 179.3 NALYSIS AI (8010) (8020	D.O. (mg/L) 2.07 2.08 2.07 2.05 2.07 2.00 2.07 D.OWED PE	6.11 6.10 6.11 6.11 6.11 6.11 6.11 6.11	ORP (mV) 36.5 36.4 36.5 36.5 TYPE (Circle all-Gx) (BTEX)	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.5 6.5 6.4 6.4 6.5 TYPICAL A (8260-SIM) (8270D) (PA	Cond. (uS/cm) 179.8 179.3 179.1 179.0 179.3 NALYSIS AI (8010) (8020)	D.O. (mg/L) 2.07 2.08 2.07 2.05 2.07 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTP	6.11 6.11 6.11 6.11 6.11 6.11 6.11 6.11	ORP (mV) 36.5 36.4 36.5 36.5 TYPE (Circle ap H-Gx) (BTEX) I-HCID) (8081)	Turbidity (NTU)	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.5 6.5 6.4 6.4 6.5 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 179.8 179.3 179.1 179.0 179.3 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS)	D.O. (mg/L) 2.07 2.08 2.07 2.05 2.07 LOWED PE D) (NWTPH-H-D) (NWTP S) (TSS) (B	6.11 6.11 6.11 6.11 6.11 6.R BOTTLE G) (NWTPF	ORP (mV) 36.5 36.4 36.5 36.5 TYPE (Circle ap H-Gx) (BTEX) I-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & Gr	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.5 6.5 6.4 6.4 6.5 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 179.8 179.3 179.1 179.0 179.3 NALYSIS AI (8010) (8020 AH) (NWTPH (ctivity) (TDS) (25310C) (To	D.O. (mg/L) 2.07 2.08 2.07 2.05 2.07 2.05 2.07 LOWED PE D) (NWTPH-H-D)	6.11 6.11 6.11 6.11 6.11 6.11 6.R BOTTLE G) (NWTPF H-Dx) (TPF HOD) (Turbic tal Kiedahl N	ORP (mV) 36.5 36.4 36.5 36.5 36.5 TYPE (Circle alder a	Turbidity (NTU) pplicable or write (8141) (Oil & Gr	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.5 6.5 6.4 6.4 6.5 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 179.8 179.3 179.1 179.0 179.3 NALYSIS AI (8010) (8020 AH) (NWTPH (strivity) (TDS) (C5310C) (Toc) (e) (WAD Cy) (As) (Sb) (D.O. (mg/L) 2.07 2.08 2.07 2.05 2.07 2.05 2.07 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Toranide) (Free Ba) (Be) (Ca	pH 6.11 6.10 6.11 6.11 6.11 6.11 6.11 6.11	ORP (mV) 36.5 36.4 36.5 36.5 TYPE (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle (Circle alder (Circle (Circ	Turbidity (NTU) pplicable or write (8141) (Oil & Groth (HCO3/CO3) (Company) (NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) Tl) (V) (Zn) (Ha	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.5 6.5 6.4 6.4 6.5 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M.	Cond. (uS/cm) 179.8 179.3 179.1 179.0 179.3 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (5310C) (Tos (e) (WAD Cy (d) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 2.07 2.08 2.07 2.05 2.07 2.05 2.07 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Toranide) (Free Ba) (Be) (Ca	pH 6.11 6.10 6.11 6.11 6.11 6.11 6.11 6.11	ORP (mV) 36.5 36.4 36.5 36.5 TYPE (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle (Circle alder (Circle (Circ	Turbidity (NTU) pplicable or write (8141) (Oil & Groth (HCO3/CO3) (Company) (NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) Tl) (V) (Zn) (Ha	Observations OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.5 6.5 6.4 6.4 6.5 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M-	Cond. (uS/cm) 179.8 179.3 179.1 179.0 179.3 NALYSIS AI (8010) (8020 AH) (NWTPH (ctivity) (TDS) (25310C) (To (e) (WAD Cy (detals) (As) (Sb) (etals) (As) (Sb) (se) (g short list)	D.O. (mg/L) 2.07 2.08 2.07 2.05 2.07 2.05 2.07 LOWED PE D) (NWTPH-I-D)	pH 6.11 6.10 6.11 6.11 6.11 6.11 6.11 6.11	ORP (mV) 36.5 36.4 36.5 36.5 TYPE (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle (Circle alder (Circle (Circ	Turbidity (NTU) pplicable or write (8141) (Oil & Groth (HCO3/CO3) (Company) (NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) Tl) (V) (Zn) (Ha	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.5 6.5 6.4 6.4 6.5 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M-	Cond. (uS/cm) 179.8 179.3 179.1 179.0 179.3 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (5310C) (Tos (e) (WAD Cy (d) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 2.07 2.08 2.07 2.05 2.07 2.05 2.07 LOWED PE D) (NWTPH-I-D)	pH 6.11 6.10 6.11 6.11 6.11 6.11 6.11 6.11	ORP (mV) 36.5 36.4 36.5 36.5 TYPE (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle (Circle alder (Circle (Circ	Turbidity (NTU) pplicable or write (8141) (Oil & Groth (HCO3/CO3) (Company) (NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) Tl) (V) (Zn) (Ha	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.5 6.5 6.4 6.4 6.5 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M-	Cond. (uS/cm) 179.8 179.3 179.1 179.0 179.3 NALYSIS AI (8010) (8020 AH) (NWTPH (ctivity) (TDS) (25310C) (To (e) (WAD Cy (detals) (As) (Sb) (etals) (As) (Sb) (se) (g short list)	D.O. (mg/L) 2.07 2.08 2.07 2.05 2.07 2.05 2.07 LOWED PE D) (NWTPH-I-D)	pH 6.11 6.10 6.11 6.11 6.11 6.11 6.11 6.11	ORP (mV) 36.5 36.4 36.5 36.5 TYPE (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle (Ci	Turbidity (NTU) pplicable or write (8141) (Oil & Groth (HCO3/CO3) (Company) (NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) Tl) (V) (Zn) (Ha	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.5 6.5 6.4 6.4 6.5 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein Methane Eth	Cond. (uS/cm) 179.8 179.3 179.1 179.0 179.3 NALYSIS AI (8010) (8020 AH) (NWTPH (ctivity) (TDS) (25310C) (To (e) (WAD Cy (detals) (As) (Sb) (etals) (As) (Sb) (se) (g short list)	D.O. (mg/L) 2.07 2.08 2.07 2.05 2.07 2.05 2.07 LOWED PE D) (NWTPH-I-D)	pH 6.11 6.10 6.11 6.11 6.11 6.11 6.11 6.11	ORP (mV) 36.5 36.4 36.5 36.5 TYPE (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle (Ci	Turbidity (NTU) pplicable or write (8141) (Oil & Groth (HCO3/CO3) (Company) (NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) Tl) (V) (Zn) (Ha	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.5 6.5 6.4 6.4 6.5 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M-	Cond. (uS/cm) 179.8 179.3 179.1 179.0 179.3 NALYSIS AI (8010) (8020 AH) (NWTPH (ctivity) (TDS) (25310C) (To (e) (WAD Cy (detals) (As) (Sb) (etals) (As) (Sb) (se) (g short list)	D.O. (mg/L) 2.07 2.08 2.07 2.05 2.07 2.05 2.07 LOWED PE D) (NWTPH-I-D)	pH 6.11 6.10 6.11 6.11 6.11 6.11 6.11 6.11	ORP (mV) 36.5 36.4 36.5 36.5 TYPE (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle (Ci	Turbidity (NTU) pplicable or write (8141) (Oil & Groth (HCO3/CO3) (Company) (NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) Tl) (V) (Zn) (Ha	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.5 6.5 6.4 6.4 6.5 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 179.8 179.3 179.1 179.0 179.3 NALYSIS AI (8010) (8020 AH) (NWTPH (ctivity) (TDS) (25310C) (To (e) (WAD Cy (detals) (As) (Sb) (etals) (As) (Sb) (se) (g short list)	D.O. (mg/L) 2.07 2.08 2.07 2.05 2.07 2.05 2.07 LOWED PE D) (NWTPH-I-D)	pH 6.11 6.10 6.11 6.11 6.11 6.11 6.11 6.11	ORP (mV) 36.5 36.4 36.5 36.5 TYPE (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle (Ci	Turbidity (NTU) pplicable or write (8141) (Oil & Groth (HCO3/CO3) (Company) (NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) Tl) (V) (Zn) (Ha	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.5 6.5 6.4 6.4 6.5 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 179.8 179.3 179.1 179.0 179.3 NALYSIS AI (8010) (8020 AH) (NWTPH (ctivity) (TDS) (25310C) (To (e) (WAD Cy (detals) (As) (Sb) (etals) (As) (Sb) (se) (g short list)	D.O. (mg/L) 2.07 2.08 2.07 2.05 2.07 2.05 2.07 LOWED PE D) (NWTPH-I-D)	pH 6.11 6.10 6.11 6.11 6.11 6.11 6.11 6.11	ORP (mV) 36.5 36.4 36.5 36.5 TYPE (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle (Ci	Turbidity (NTU) pplicable or write (8141) (Oil & Groth (HCO3/CO3) (Company) (NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) Tl) (V) (Zn) (Ha	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3 1 Duplicate San	Temp (°F/°C) 6.5 6.5 6.4 6.4 6.5 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 179.8 179.3 179.1 179.0 179.3 NALYSIS AI (8010) (8020 AH) (NWTPH (ctivity) (TDS) (25310C) (To (e) (WAD Cy (detals) (As) (Sb) (etals) (As) (Sb) (se) (g short list)	D.O. (mg/L) 2.07 2.08 2.07 2.05 2.07 2.05 2.07 LOWED PE D) (NWTPH-I-D)	pH 6.11 6.10 6.11 6.11 6.11 6.11 6.11 6.11	ORP (mV) 36.5 36.4 36.5 36.5 TYPE (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle alder (Circle (Ci	Turbidity (NTU) pplicable or write (8141) (Oil & Grover (MCO3/CO3) (Commonwealth (MO3/NO2)) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA 3) (NO2) (F) Tl) (V) (Zn) (Ha	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ie:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 22 /2022@	1228		
Sample Nun	nber:	RGW237S-	220222		Weather:	30S, COLD SN	IOW		
Landau Rep	resentative:	AHA/JAM/	SJL						
WATER LEV	/EL/WELL/PU	JRGE DATA							
Well Condition	oi GOOD	Secure (YES)	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	4.92	Time:	1157	Flow through cel	ll vol.		GW Meter No.(s	SLOPE 2
	Date/Time:			End Purge:	_	2/ 22 /2022 @	1225	Gallons Purged:	
Purge water d			55-gal Drum		Storage Tank	Ground		SITE TREATM	
r arge water a	•	_	-		Č	_	_	-	
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	` ′	` ′		ters for three	` /	dings within the fo	` '	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1204	9.3	208.1	1.55	6.31	-4.3		4.92		
1207	8.6	216.0	1.29	6.40	-27.1		4.92		
1210	8.0	212.1	1.22	6.43	-33.3		4.93		
-	·						4.73		
1213	5.8	192.2	1.35	6.44	-38.3				
1216	5.0	179.8	1.32	6.44	-39.1				
1219	4.6	171.1	1.12	6.39	-36.7				
1222	4.6	167.8	1.05	6.36	-35.6				
SAMPLE CO	LLECTION D	OATA				<u> </u>	· <u> </u>		
Sample Collec	cted With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Was	sh 🗍	Tap Rinse	DI Water	Dedicated		_	
(By Numerica	al Order)	Other	_		₩				
		II II Ottiei							
	,	-	, sheen, etc.):	NO ODOR Y	YELLOW BROW	N MED TURB NO	SHEEN		
	,	-	, sheen, etc.):	NO ODOR Y	YELLOW BROW	N MED TURB NO	SHEEN		
	Temp	turbidity, odor	D.O.	NO ODOR Y	ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr	ription (color,	turbidity, odor						Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	Temp	turbidity, odor	D.O.		ORP	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW		
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm) 167.4	D.O. (mg/L)	рН 6.36 6.36	ORP (mV) -35.4 -35.3	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 4.6 4.7	Cond. (uS/cm) 167.4 167.2	D.O. (mg/L) 1.04 1.03	pH 6.36 6.36 6.36	ORP (mV) -35.4 -35.3 -35.1	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 4.6 4.7	Cond. (uS/cm) 167.4 167.3 167.2 166.9	D.O. (mg/L) 1.04 1.03 1.01	pH 6.36 6.36 6.36 6.36	ORP (mV) -35.4 -35.3 -35.1 -35.0	Turbidity (NTU)	DTW		
Replicate 1 2 3	Temp (°F/°C) 4.6 4.7	Cond. (uS/cm) 167.4 167.2	D.O. (mg/L) 1.04 1.03	pH 6.36 6.36 6.36	ORP (mV) -35.4 -35.3 -35.1	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 4.6 4.7 4.7 4.7 TYPICAL A	Cond. (uS/cm) 167.4 167.3 167.2 166.9 167.2	D.O. (mg/L) 1.04 1.03 1.01 1.00 1.02	6.36 6.36 6.36 6.36 6.36 6.36	ORP (mV) -35.4 -35.3 -35.1 -35.0 -35.2 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 4.6 4.7 4.7 4.7 TYPICAL A (8260) (8010	Cond. (uS/cm) 167.4 167.3 167.2 166.9 167.2 NALYSIS AI	D.O. (mg/L) 1.04 1.03 1.01 1.00 1.02 LOWED PE	6.36 6.36 6.36 6.36 6.36 R BOTTLE NWTPH-GX	ORP (mV) -35.4 -35.3 -35.1 -35.0 -35.2 TYPE (Circle aport) (BTEX)	Turbidity (NTU) #DIV/0! pplicable or write	DTW (ft)	nalysis below)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 4.6 4.7 4.7 4.7 TYPICAL A (8260) (8010) (8270) (PAF	Cond. (uS/cm) 167.4 167.3 167.2 166.9 167.2 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 1.04 1.03 1.01 1.00 1.02 LOWED PE	pH 6.36 6.36 6.36 6.36 6.36 CR BOTTLE NWTPH-Gx,	ORP (mV) -35.4 -35.3 -35.1 -35.0 -35.2 TYPE (Circle approximately (BTEX) HCID) (8081) (#DIV/0! pplicable or write 8141) (Oil & Gre	DTW (ft) non-standard and asse)	nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 4.6 4.6 4.7 4.7 4.7 TYPICAL A (8260) (8010) (8270) (PAH (pH) (Condu	Cond. (uS/cm) 167.4 167.3 167.2 166.9 167.2 NALYSIS AI 0) (8020) (N H) (NWTPH-activity) (TDS)	D.O. (mg/L) 1.04 1.03 1.01 1.00 1.02 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B	6.36 6.36 6.36 6.36 6.36 CR BOTTLE NWTPH-GX CDX) (TPH-GOD) (Turbic	ORP (mV) -35.4 -35.3 -35.1 -35.0 -35.2 TYPE (Circle ap (BTEX)) HCID) (8081) (dity) (Alkalinity)	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (6	DTW (ft) non-standard and asse)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 4.6 4.6 4.7 4.7 4.7 TYPICAL A (8260) (8010 (8270) (PAH (PH) (Conduction) (TOO	Cond. (uS/cm) 167.4 167.3 167.2 166.9 167.2 NALYSIS AI (0) (8020) (NI (NWTPH- dictivity) (TDS (C) (Total PO-	D.O. (mg/L) 1.04 1.03 1.01 1.00 1.02 LOWED PENWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie	6.36 6.36 6.36 6.36 6.36 6.36 CR BOTTLE NWTPH-Gx DD) (TPH-DO) (Turbidahl Nitroger	ORP (mV) -35.4 -35.3 -35.1 -35.0 -35.2 TYPE (Circle approximately (BTEX) HCID) (8081) (#DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (6	DTW (ft) non-standard and asse)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 4.6 4.7 4.7 4.7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Too	Cond. (uS/cm) 167.4 167.2 166.9 167.2 NALYSIS AI (0) (8020) (N (1) (NWTPH- (1) (Interview) (TD) (1) (Total PO- (1) (WAD Cy	D.O. (mg/L) 1.04 1.03 1.01 1.00 1.02 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free	pH 6.36 6.36 6.36 6.36 6.36 CR BOTTLE NWTPH-GX DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide)	ORP (mV) -35.4 -35.3 -35.1 -35.0 -35.2 TYPE (Circle aportion (BTEX)) HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/1)	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (6)	non-standard an	malysis below) WA WA WA ON ONE OF THE CONTRACT OF THE CONTR	Observations OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 4.6 4.7 4.7 4.7 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 167.4 167.3 167.2 166.9 167.2 NALYSIS AI (D) (8020) (NI) (NWTPH-lectivity) (TDS (C) (Total PO-lectivity) (AS) (Sb) (D.O. (mg/L) 1.04 1.03 1.01 1.00 1.02 LOWED PE WYTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.36 6.36 6.36 6.36 6.36 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -35.4 -35.3 -35.1 -35.0 -35.2 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (One) (Pb) (Mg) (Mn) (non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 4.6 4.6 4.7 4.7 4.7 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 167.4 167.3 167.2 166.9 167.2 NALYSIS AI 0) (8020) (N H) (NWTPH-lectivity) (TDS C) (Total PO4 le) (WAD Cy de) (As) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L) 1.04 1.03 1.01 1.00 1.02 LOWED PE WYTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.36 6.36 6.36 6.36 6.36 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -35.4 -35.3 -35.1 -35.0 -35.2 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (One) (Pb) (Mg) (Mn) (non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF O	Observations OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 4.6 4.6 4.7 4.7 4.7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 167.4 167.3 167.2 166.9 167.2 NALYSIS AI 0) (8020) (N H) (NWTPH-lectivity) (TDS C) (Total PO4 le) (WAD Cy de) (As) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L) 1.04 1.03 1.01 1.00 1.02 LOWED PENTPH-G) (Composite of the composite of t	6.36 6.36 6.36 6.36 6.36 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -35.4 -35.3 -35.1 -35.0 -35.2 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (One) (Pb) (Mg) (Mn) (non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 4.6 4.6 4.7 4.7 4.7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 167.4 167.3 167.2 166.9 167.2 NALYSIS AI (b) (8020) (N H) (NWTPH- (activity) (TD: (c) (Total PO- (de) (WAD Cy (de) (As) (Sb) ((etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.04 1.03 1.01 1.00 1.02 LOWED PENTPH-G) (Composite of the composite of t	6.36 6.36 6.36 6.36 6.36 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -35.4 -35.3 -35.1 -35.0 -35.2 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (One) (Pb) (Mg) (Mn) (non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 4.6 4.6 4.7 4.7 4.7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 167.4 167.3 167.2 166.9 167.2 NALYSIS AI (b) (8020) (N H) (NWTPH- (activity) (TD: (c) (Total PO- (de) (WAD Cy (de) (As) (Sb) ((etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.04 1.03 1.01 1.00 1.02 LOWED PENTPH-G) (Composite of the composite of t	6.36 6.36 6.36 6.36 6.36 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -35.4 -35.3 -35.1 -35.0 -35.2 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (One) (Pb) (Mg) (Mn) (non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 4.6 4.6 4.7 4.7 4.7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 167.4 167.3 167.2 166.9 167.2 NALYSIS AI (b) (8020) (N H) (NWTPH- (activity) (TD: (c) (Total PO- (de) (WAD Cy (de) (As) (Sb) ((etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.04 1.03 1.01 1.00 1.02 LOWED PENTPH-G) (Composite of the composite of t	6.36 6.36 6.36 6.36 6.36 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -35.4 -35.3 -35.1 -35.0 -35.2 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (One) (Pb) (Mg) (Mn) (non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 4.6 4.7 4.7 4.7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 167.4 167.3 167.2 166.9 167.2 NALYSIS AI (b) (8020) (N H) (NWTPH- (activity) (TD: (c) (Total PO- (de) (WAD Cy (de) (As) (Sb) ((etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.04 1.03 1.01 1.00 1.02 LOWED PENTPH-G) (Composite of the composite of t	6.36 6.36 6.36 6.36 6.36 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -35.4 -35.3 -35.1 -35.0 -35.2 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (One) (Pb) (Mg) (Mn) (non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 4.6 4.7 4.7 4.7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 167.4 167.3 167.2 166.9 167.2 NALYSIS AI (b) (8020) (N H) (NWTPH- (activity) (TD: (c) (Total PO- (de) (WAD Cy (de) (As) (Sb) ((etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.04 1.03 1.01 1.00 1.02 LOWED PENTPH-G) (Composite of the composite of t	6.36 6.36 6.36 6.36 6.36 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -35.4 -35.3 -35.1 -35.0 -35.2 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (One) (Pb) (Mg) (Mn) (non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 4.6 4.7 4.7 4.7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 167.4 167.3 167.2 166.9 167.2 NALYSIS AI (b) (8020) (N H) (NWTPH- (activity) (TD: (c) (Total PO- (de) (WAD Cy (de) (As) (Sb) ((etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.04 1.03 1.01 1.00 1.02 LOWED PENTPH-G) (Composite of the composite of t	6.36 6.36 6.36 6.36 6.36 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -35.4 -35.3 -35.1 -35.0 -35.2 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (One) (Pb) (Mg) (Mn) (non-standard an ase) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ne:	Boeing Ren	ton		Project Numbe	<u>r:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 22 /2022@	1052		
Sample Nun	nber:	RGW240D-	220222		Weather:	SNOWING, 30s			
Landau Rep	resentative:	AHA/JAM/	SJL						
WATER LEV	VEL/WELL/PU	JRGE DATA							
Well Condition	on:	Secure (YES)	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	6.15	Time:	10:22	Flow through ce	ll vol.		GW Meter No.(s	SLOPE #2
	Date/Time:		1025	End Purge:	_	2/ 22 /2022 @	1049	Gallons Purged:	
Purge water of			55-gal Drum		Storage Tank	Ground		SITE TREATMI	
	700	6 1	•	_	ODB	—	DEW	- ID	6
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	Purge Goal	ls: Stablizatio	n of Parame		consecutive rea	dings within the fo	llowing limits	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1028	9.6	247.7	0.74	6.06	-10.1		6.22		
1031	7.8	240.5	0.75	6.15	-25.9		6.20		
1034	7.3	233.9	0.78	6.19	-35.7		6.17		
1037	7.2	230.3	0.83	6.19	-39.8				
1040		228.9	0.73	6.20	-44.0				
-								-	
1043		226.3	0.77	6.21	-48.3			· 	
1046	7.0	224.5	0.79	6.22	-50.4				
	DLLECTION D								
Sample Colle	ected With:		Bailer		Pump/Pump Type	BLADDER		_	
Made of:		Stainless Stee	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee	dure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	al Oudou)	(T) (A)							
, ,	,	Other							
, ,	,	-	, sheen, etc.):	CLEAR, SLI	GHT YELLOW	COLOR, NO/NS			
Sample Desc	ription (color,	turbidity, odor					DTW	Farrous iron	Comments/
	,	-	D.O. (mg/L)	pH	ORP (mV)	COLOR, NO/NS Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descri	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity			
Sample Describerate Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pH 6.19	ORP (mV)	Turbidity			
Replicate 1 2	Temp (°F/°C) 7.0	Cond. (uS/cm) 224.2 224.0	D.O. (mg/L) 0.78	pH 6.19 6.22	ORP (mV) -50.7	Turbidity			
Replicate 1 2 3	Temp (°F/°C) 7.0 7.0	Cond. (uS/cm) 224.2 224.0 223.9	D.O. (mg/L) 0.78 0.79	pH 6.19 6.22 6.20	ORP (mV) -50.7 -51.0	Turbidity			
Replicate 1 2	Temp (°F/°C) 7.0	Cond. (uS/cm) 224.2 224.0	D.O. (mg/L) 0.78	pH 6.19 6.22	ORP (mV) -50.7	Turbidity			
Replicate 1 2 3	Temp (°F/°C) 7.0 7.0	Cond. (uS/cm) 224.2 224.0 223.9	D.O. (mg/L) 0.78 0.79	pH 6.19 6.22 6.20	ORP (mV) -50.7 -51.0	Turbidity			
Replicate 1 2 3 4	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0	Cond. (uS/cm) 224.2 224.0 223.9 223.5 223.9	D.O. (mg/L) 0.78 0.79 0.79 0.81	6.19 6.22 6.20 6.22 6.21	ORP (mV) -50.7 -51.0 -51.2 -51.5	Turbidity (NTU)	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 	Cond. (uS/cm) 224.2 224.0 223.9 223.5 223.9	D.O. (mg/L) 0.78 0.79 0.79 0.81 0.79	6.19 6.22 6.20 6.22 6.21 CR BOTTLE	ORP (mV) -50.7 -51.0 -51.2 -51.5 -51.1 TYPE (Circle ap	Turbidity (NTU) #DIV/0!	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 	Cond. (uS/cm) 224.2 224.0 223.9 223.5 223.9 NALYSIS AI (0) (8020) (N	D.O. (mg/L) 0.78 0.79 0.81 0.79 LOWED PERWIPH-G)	6.19 6.22 6.20 6.22 6.21 ER BOTTLE (NWTPH-GX)	ORP (mV) -50.7 -51.0 -51.2 -51.5 -51.1 TYPE (Circle ap	Turbidity (NTU) #DIV/0!	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0 7.0 7.0 (8260) (8010 (8270) (PAH (pH) (Condu	Cond. (uS/cm) 224.2 224.0 223.9 223.5 223.9 NALYSIS AL 0) (8020) (N H) (NWTPH-Inctivity) (TDS)	D.O. (mg/L) 0.78 0.79 0.81 0.79 LOWED PERMYPH-G) (NWTPH-G) (NWTPH-G) (TSS) (ESS) (ESS)	6.19 6.22 6.20 6.22 6.21 ER BOTTLE (NWTPH-Gx) I-Dx) (TPH-ISOD) (Turbio	ORP (mV) -50.7 -51.0 -51.5 -51.1 TYPE (Circle ap (BTEX)) HCID) (8081) (dity) (Alkalinity)	#DIV/0! #DIV/0! pplicable or write in (HCO3/CO3) (C	(ft)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0 7.0 7.0 (8260) (8010 (8270) (PAF (pH) (Condu	Cond. (uS/cm) 224.2 224.0 223.9 223.5 223.9 NALYSIS AI (0) (8020) (NH) (NWTPH-Intervity) (TDS) (C) (Total PO4	D.O. (mg/L) 0.78 0.79 0.81 0.79 LOWED PERMYPH-G) (MYTPH-G) (M	6.19 6.22 6.20 6.22 6.21 CR BOTTLE (NWTPH-Gx) I-Dx) (TPH-IDS) (Turbio dahl Nitrogen	ORP (mV) -50.7 -51.0 -51.5 -51.1 TYPE (Circle ap (BTEX)) HCID) (8081) (#DIV/0! #DIV/0! pplicable or write in (HCO3/CO3) (C	(ft)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0 7.0 7.0 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid	Cond. (uS/cm) 224.2 224.0 223.9 223.5 223.9 NALYSIS AI (0) (8020) (N H) (NWTPH- activity) (TDS (C) (Total PO4 le) (WAD Cy	D.O. (mg/L) 0.78 0.79 0.81 0.79 LLOWED PERMYPH-G) (MWTPH-G) (6.19 6.22 6.20 6.22 6.21 CR BOTTLE (NWTPH-Gx) I-Dx) (TPH-ISOD) (Turbio dahl Nitrogen	ORP (mV) -50.7 -51.0 -51.2 -51.5 -51.1 TYPE (Circle ap (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write results (HCO3/CO3) (CONO2)	non-standard and sisc)	malysis below) WA WA WA O WS NO2) (F)	Observations OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0 7.0 7.0 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 224.2 224.0 223.9 223.5 223.9 NALYSIS AI (0) (8020) (N H) (NWTPH-lactivity) (TDS (C) (Total PO4 (le) (WAD Cy () (As) (Sb) (D.O. (mg/L) 0.78 0.79 0.81 0.79 LOWED PF WTPH-G) (MWTPH-G) (6.19 6.22 6.20 6.22 6.21 CR BOTTLE (NWTPH-Gx) I-Dx) (TPH-ISOD) (Turbic Idahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -50.7 -51.0 -51.2 -51.5 -51.1 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Greater (HCO3/CO3) (CONO2)	non-standard and lase) El) (SO4) (NO	(Fe II) nalysis below) WA WA 33) (NO2) (F) T1) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0 7.0 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 224.2 224.0 223.9 223.5 223.9 NALYSIS AI 0) (8020) (N H) (NWTPH-lactivity) (TDS C) (Total PO4 le) (WAD Cy de) (As) (Sb) (cetals) (As) (Sb) (Sb)	D.O. (mg/L) 0.78 0.79 0.81 0.79 LOWED PF WTPH-G) (MWTPH-G) (6.19 6.22 6.20 6.22 6.21 CR BOTTLE (NWTPH-Gx) I-Dx) (TPH-ISOD) (Turbic Idahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -50.7 -51.0 -51.2 -51.5 -51.1 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Greater (HCO3/CO3) (CONO2)	non-standard and lase) El) (SO4) (NO	(Fe II) nalysis below) WA WA 33) (NO2) (F) T1) (V) (Zn) (Hg	Observations OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0 7.0 7.0 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 224.2 224.0 223.9 223.5 223.9 NALYSIS AI (0) (8020) (N H) (NWTPH-Intrivity) (TDS (C) (Total PO4 (de) (WAD Cy (de) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.78 0.79 0.81 0.79 LLOWED PERWITPH-G) (MWTPH-G)	6.19 6.22 6.20 6.22 6.21 CR BOTTLE (NWTPH-Gx) I-Dx) (TPH-ISOD) (Turbic Idahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -50.7 -51.0 -51.2 -51.5 -51.1 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Greater (HCO3/CO3) (CONO2)	non-standard and lase) El) (SO4) (NO	(Fe II) nalysis below) WA WA 33) (NO2) (F) T1) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0 7.0 7.0 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 224.2 224.0 223.9 223.5 223.9 NALYSIS AI 0) (8020) (N H) (NWTPH-lactivity) (TDS C) (Total PO4 le) (WAD Cy de) (As) (Sb) (cetals) (As) (Sb) (Sb)	D.O. (mg/L) 0.78 0.79 0.81 0.79 LLOWED PERWITPH-G) (MWTPH-G)	6.19 6.22 6.20 6.22 6.21 CR BOTTLE (NWTPH-Gx) I-Dx) (TPH-ISOD) (Turbic Idahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -50.7 -51.0 -51.2 -51.5 -51.1 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Greater (HCO3/CO3) (CONO2)	non-standard and lase) El) (SO4) (NO	(Fe II) nalysis below) WA WA 33) (NO2) (F) T1) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0 7.0 7.0 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 224.2 224.0 223.9 223.5 223.9 NALYSIS AI (0) (8020) (N H) (NWTPH-Intrivity) (TDS (C) (Total PO4 (de) (WAD Cy (de) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.78 0.79 0.81 0.79 LLOWED PERWITPH-G) (MWTPH-G)	6.19 6.22 6.20 6.22 6.21 CR BOTTLE (NWTPH-Gx) I-Dx) (TPH-ISOD) (Turbic Idahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -50.7 -51.0 -51.2 -51.5 -51.1 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Greater (HCO3/CO3) (CONO2)	non-standard and lase) El) (SO4) (NO	(Fe II) nalysis below) WA WA 33) (NO2) (F) T1) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0 7.0 7.0 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 224.2 224.0 223.9 223.5 223.9 NALYSIS AI (0) (8020) (N H) (NWTPH-Intrivity) (TDS (C) (Total PO4 (de) (WAD Cy (de) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.78 0.79 0.81 0.79 LLOWED PERWITPH-G) (MWTPH-G)	6.19 6.22 6.20 6.22 6.21 CR BOTTLE (NWTPH-Gx) I-Dx) (TPH-ISOD) (Turbic Idahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -50.7 -51.0 -51.2 -51.5 -51.1 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Greater (HCO3/CO3) (CONO2)	non-standard and lase) El) (SO4) (NO	malysis below) WA WA WA O S) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0 7.0 7.0 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 224.2 224.0 223.9 223.5 223.9 NALYSIS AI (0) (8020) (N H) (NWTPH-Intrivity) (TDS (C) (Total PO4 (de) (WAD Cy (de) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.78 0.79 0.81 0.79 LLOWED PERWITPH-G) (MWTPH-G)	6.19 6.22 6.20 6.22 6.21 CR BOTTLE (NWTPH-Gx) I-Dx) (TPH-ISOD) (Turbic Idahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -50.7 -51.0 -51.2 -51.5 -51.1 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Greater (HCO3/CO3) (CONO2)	non-standard and lase) El) (SO4) (NO	malysis below) WA WA WA O S) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0 7.0 7.0 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 224.2 224.0 223.9 223.5 223.9 NALYSIS AI (0) (8020) (N H) (NWTPH-Intrivity) (TDS (C) (Total PO4 (de) (WAD Cy (de) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.78 0.79 0.81 0.79 LLOWED PERWITPH-G) (MWTPH-G)	6.19 6.22 6.20 6.22 6.21 CR BOTTLE (NWTPH-Gx) I-Dx) (TPH-ISOD) (Turbic Idahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -50.7 -51.0 -51.2 -51.5 -51.1 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Greater (HCO3/CO3) (CONO2)	non-standard and lase) El) (SO4) (NO	malysis below) WA WA WA O S) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0 7.0 7.0 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 224.2 224.0 223.9 223.5 223.9 NALYSIS AI (0) (8020) (N H) (NWTPH-Intrivity) (TDS (C) (Total PO4 (de) (WAD Cy (de) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.78 0.79 0.81 0.79 LLOWED PERWITPH-G) (MWTPH-G)	6.19 6.22 6.20 6.22 6.21 CR BOTTLE (NWTPH-Gx) I-Dx) (TPH-ISOD) (Turbic Idahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -50.7 -51.0 -51.2 -51.5 -51.1 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Greater (HCO3/CO3) (CONO2)	non-standard and lase) El) (SO4) (NO	malysis below) WA WA WA O S) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ıe:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 23 /2022@	1008		
Sample Nun	nber:	RGW247S-	220223		Weather:	SUNNY, 30s			
Landau Repr	resentative:	SJL/JAM/A	HA						
WATER LEV	/EL/WELL/PU	JRGE DATA							
Well Condition		Secure (YES))	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	4.52	Time:	940	Flow through ce	ll vol.		GW Meter No.(s	SLOPE #2
	Date/Time:		942	End Purge:	ě	2/ 23 /2022 @	1005	Gallons Purged:	
Purge water d			55-gal Drum		Storage Tank	Ground		SITE TREATMI	
r arge water a	•		-		C	<u> </u>	_		
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	` ′	` ,		ters for three	` /	dings within the fo	` '	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
945	9.4	389.4	2.42	6.36	13.3		4.56		
948	8.6	394.8	1.81	6.23	-31.0		4.50		
951	8.0	388.9	1.59	6.19	-51.9		4.50		
	·						4.30		
954	7.8	385.2	1.55	6.18	-54.5				
957	7.5	379.2	1.58	6.16	-58.2				
1000	7.3	375.7	1.72	6.18	-60.6				
1003	7.4	374.3	1.71	6.20	-61.0				
SAMPLE CO	LLECTION D	OATA							
Sample Collec			Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Stee	el 🗖	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Was		Tap Rinse	DI Water	Dedicated	_	_	
		—	·· —	rup remse	□ Di	Bedreated			
I Kv Numerica	ıl Order)	Other							
(By Numerical Sample Description		Other	sheen etc.):	FLOATING	PARTICULATES	S CLEAR NO/NS			
. •		-	, sheen, etc.):	FLOATING	PARTICULATES	S, CLEAR, NO/NS			
. •		-	, sheen, etc.):	FLOATING pH	PARTICULATES ORP	S, CLEAR, NO/NS Turbidity	DTW	Ferrous iron	Comments/
Sample Descr	ription (color,	turbidity, odor	_					Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	Temp	turbidity, odor	D.O.		ORP	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 7.4	Cond. (uS/cm) 372.9	D.O. (mg/L) 1.74	pH 6.20 6.20	ORP (mV) -60.6	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 7.4 7.4	Cond. (uS/cm) 372.9 373.9 374.3	D.O. (mg/L) 1.74 1.74	6.20 6.20 6.23	ORP (mV) -60.6 -61.0 -60.9	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 7.4 7.4 7.4	Cond. (uS/cm) 372.9 373.9 374.3	D.O. (mg/L) 1.74 1.74 1.74	6.20 6.20 6.23 6.16	ORP (mV) -60.6 -61.0 -60.9	Turbidity (NTU)	DTW		
Replicate 1 2 3	Temp (°F/°C) 7.4 7.4	Cond. (uS/cm) 372.9 373.9 374.3	D.O. (mg/L) 1.74 1.74	6.20 6.20 6.23	ORP (mV) -60.6 -61.0 -60.9	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 7.4 7.4 7.4 7.4	Cond. (uS/cm) 372.9 373.9 374.3 374.2 373.8	D.O. (mg/L) 1.74 1.74 1.74 1.72	6.20 6.20 6.23 6.16 6.20	ORP (mV) 60.6 61.0 60.9	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 7.4 7.4 7.4 7.4 7.4 TYPICAL A	Cond. (uS/cm) 372.9 373.9 374.3 374.2 373.8	D.O. (mg/L) 1.74 1.74 1.72 1.72 1.74	6.20 6.20 6.23 6.16 6.20	ORP (mV) -60.6 -61.0 -60.9 -61.1 -60.9	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 7.4 7.4 7.4 7.4 7.4 7.4 TYPICAL A (8260) (8010	Cond. (uS/cm) 372.9 373.9 374.3 374.2 373.8 NALYSIS AI	D.O. (mg/L) 1.74 1.74 1.74 1.72 1.74 1.74 1.79 1.79 1.79	6.20 6.20 6.23 6.16 6.20 CR BOTTLE NWTPH-GX	ORP (mV) -60.6 -61.0 -60.9 -61.1 -60.9 TYPE (Circle aport) (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 7.4 7.4 7.4 7.4 7.4 7.4 (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 372.9 373.9 374.3 374.2 373.8 NALYSIS AL (b) (8020) (N AH) (NWTPHetivity) (TDS)	D.O. (mg/L) 1.74 1.74 1.74 1.72 1.74 1.72 1.74 I.OWED PE WTPH-G) (M-D) (NWTP S) (TSS) (B	6.20 6.20 6.23 6.16 6.20 CR BOTTLE NWTPH-Gx PH-Dx) (TPF	ORP (mV) -60.6 -61.0 -60.9 -61.1 -60.9 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.9 (8260) (8010 (8270D) (PA	Cond. (uS/cm) 372.9 373.9 374.2 373.8 NALYSIS AI (b) (8020) (N AH) (NWTPH detivity) (TDS (C) (Total PO4	D.O. (mg/L) 1.74 1.74 1.72 1.74 1.72 1.75 LOWED PERIVERS (B) (TSS) (B) (Total Kie	6.20 6.20 6.23 6.16 6.20 CR BOTTLE NWTPH-Gx PH-Dx) (TPH-DX) (TPH-DX) (Turbidahl Nitroger	ORP (mV) -60.6 -61.0 -60.9 -61.1 -60.9 TYPE (Circle ap (BTEX)) H-HCID) (8081)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.4 7.4 7.4 7.4 7.4 TYPICAL A (8260) (8010 (8270D) (PA (COD) (TOO (Total Cyanid	Cond. (uS/cm) 372.9 373.9 374.3 374.2 373.8 NALYSIS AI (D) (8020) (N AH) (NWTPHetivity) (TDS	D.O. (mg/L) 1.74 1.74 1.72 1.74 1.72 1.75 LOWED PE WTPH-G) (NWTP S) (TSS) (B H) (Total Kie anide) (Free	6.20 6.20 6.23 6.16 6.20 CR BOTTLE NWTPH-GX; PH-Dx) (TPH-GOD) (Turbid dahl Nitroger Cyanide)	ORP (mV) -60.6 -61.0 -60.9 -61.1 -60.9 TYPE (Circle ap (BTEX) H-HCID) (8081) dity) (Alkalinity)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G. (HCO3/CO3) (O	non-standard and rease)	(Fe II) nalysis below) WA WA O WA WA	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.4 7.4 7.4 7.4 7.4 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 372.9 373.9 374.3 374.2 373.8 NALYSIS AI O) (8020) (NAH) (NWTPHOLIVITY) (TDS) C) (Total PO4 e) (WAD Cy) (As) (Sb) (D.O. (mg/L) 1.74 1.74 1.72 1.74 1.72 1.74 LOWED PE WTPH-G) (NWTP S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca	6.20 6.20 6.23 6.16 6.20 CR BOTTLE NWTPH-GX, H-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -60.6 -61.0 -60.9 -61.1 -60.9 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.4 7.4 7.4 7.4 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 372.9 373.9 374.3 374.2 373.8 NALYSIS AI (NWTPHetivity) (TDS (C) (Total PO4 (e) (WAD Cy (AS) (Sb) (Cetals) (AS) (Sb)	D.O. (mg/L) 1.74 1.74 1.72 1.74 1.72 1.74 LOWED PE WTPH-G) (NWTP S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca	6.20 6.20 6.23 6.16 6.20 CR BOTTLE NWTPH-GX, H-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -60.6 -61.0 -60.9 -61.1 -60.9 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON O	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.4 7.4 7.4 7.4 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 372.9 373.9 374.3 374.2 373.8 NALYSIS AI (D) (8020) (N (MH) (NWTPHetivity) (TDS) (C) (Total PO4 (e) (WAD Cy) (AS) (Sb) (etals) (AS) (Sb) (g short list)	D.O. (mg/L) 1.74 1.74 1.72 1.74 1.72 1.74 1.75 LOWED PE WTPH-G) (I-D) (NWTP S) (TSS) (B G) (Total Kie anide) (Free Ba) (Be) (Ca c) (Ba) (Be) (Ca	6.20 6.20 6.23 6.16 6.20 CR BOTTLE NWTPH-GX, H-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -60.6 -61.0 -60.9 -61.1 -60.9 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.4 7.4 7.4 7.4 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 372.9 373.9 374.3 374.2 373.8 NALYSIS AI (NWTPHetivity) (TDS (C) (Total PO4 (e) (WAD Cy (AS) (Sb) (Cetals) (AS) (Sb)	D.O. (mg/L) 1.74 1.74 1.72 1.74 1.72 1.74 1.75 LOWED PE WTPH-G) (I-D) (NWTP S) (TSS) (B G) (Total Kie anide) (Free Ba) (Be) (Ca c) (Ba) (Be) (Ca	6.20 6.20 6.23 6.16 6.20 CR BOTTLE NWTPH-GX, H-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -60.6 -61.0 -60.9 -61.1 -60.9 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON ONE OF THE CONTRACT	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.4 7.4 7.4 7.4 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 372.9 373.9 374.3 374.2 373.8 NALYSIS AI (D) (8020) (N (MH) (NWTPHetivity) (TDS) (C) (Total PO4 (e) (WAD Cy) (AS) (Sb) (etals) (AS) (Sb) (g short list)	D.O. (mg/L) 1.74 1.74 1.72 1.74 1.72 1.74 1.75 LOWED PE WTPH-G) (I-D) (NWTP S) (TSS) (B G) (Total Kie anide) (Free Ba) (Be) (Ca c) (Ba) (Be) (Ca	6.20 6.20 6.23 6.16 6.20 CR BOTTLE NWTPH-GX, H-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -60.6 -61.0 -60.9 -61.1 -60.9 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON ONE OF THE CONTRACT	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.4 7.4 7.4 7.4 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 372.9 373.9 374.3 374.2 373.8 NALYSIS AI (D) (8020) (N (MH) (NWTPHetivity) (TDS) (C) (Total PO4 (e) (WAD Cy) (AS) (Sb) (etals) (AS) (Sb) (g short list)	D.O. (mg/L) 1.74 1.74 1.72 1.74 1.72 1.74 1.75 LOWED PE WTPH-G) (I-D) (NWTP S) (TSS) (B G) (Total Kie anide) (Free Ba) (Be) (Ca c) (Ba) (Be) (Ca	6.20 6.20 6.23 6.16 6.20 CR BOTTLE NWTPH-GX, H-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -60.6 -61.0 -60.9 -61.1 -60.9 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON ONE OF THE CONTRACT	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.4 7.4 7.4 7.4 7.4 TYPICAL A (8260) (8010 (8270D) (PA (COD) (TOG) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 372.9 373.9 374.3 374.2 373.8 NALYSIS AI (D) (8020) (N (MH) (NWTPHetivity) (TDS) (C) (Total PO4 (e) (WAD Cy) (AS) (Sb) (etals) (AS) (Sb) (g short list)	D.O. (mg/L) 1.74 1.74 1.72 1.74 1.72 1.74 1.75 LOWED PE WTPH-G) (I-D) (NWTP S) (TSS) (B G) (Total Kie anide) (Free Ba) (Be) (Ca c) (Ba) (Be) (Ca	6.20 6.20 6.23 6.16 6.20 CR BOTTLE NWTPH-GX, H-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -60.6 -61.0 -60.9 -61.1 -60.9 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON ONE OF THE CONTRACT	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.4 7.4 7.4 7.4 TYPICAL A (8260) (8010 (8270D) (PA (COD) (TOG) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 372.9 373.9 374.3 374.2 373.8 NALYSIS AI (D) (8020) (N (MH) (NWTPHetivity) (TDS) (C) (Total PO4 (e) (WAD Cy) (AS) (Sb) (etals) (AS) (Sb) (g short list)	D.O. (mg/L) 1.74 1.74 1.72 1.74 1.72 1.74 1.75 LOWED PE WTPH-G) (I-D) (NWTP S) (TSS) (B G) (Total Kie anide) (Free Ba) (Be) (Ca c) (Ba) (Be) (Ca	6.20 6.20 6.23 6.16 6.20 CR BOTTLE NWTPH-GX, H-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -60.6 -61.0 -60.9 -61.1 -60.9 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON ONE OF THE CONTRACT	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 7.4 7.4 7.4 7.4 TYPICAL A (8260) (8010 (8270D) (PA (COD) (TOG) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 372.9 373.9 374.3 374.2 373.8 NALYSIS AI (D) (8020) (N (MH) (NWTPHetivity) (TDS) (C) (Total PO4 (e) (WAD Cy) (AS) (Sb) (etals) (AS) (Sb) (g short list)	D.O. (mg/L) 1.74 1.74 1.72 1.74 1.72 1.74 1.75 LOWED PE WTPH-G) (I-D) (NWTP S) (TSS) (B G) (Total Kie anide) (Free Ba) (Be) (Ca c) (Ba) (Be) (Ca	6.20 6.20 6.23 6.16 6.20 CR BOTTLE NWTPH-GX, H-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -60.6 -61.0 -60.9 -61.1 -60.9 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON ONE OF THE CONTRACT	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ne <u>:</u>	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	199	
Event:		Feb. 2022			Date/Time:	2/ 23 /2022@	1042		
Sample Nun	nber:	RGW248I-	220223		Weather:	30s, SUNNY			
Landau Rep	resentative:	SJL/JAM/A	.HA						
WATER LEV	VEL/WELL/PU	JRGE DATA							
Well Condition	oı GOOD	Secure (YES))	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	4.32	Time:	1017	Flow through ce	ll vol.		GW Meter No.(s	SLOPE #2
	Date/Time:		1019	End Purge:	e	2/ 23 /2022 @	1040	Gallons Purged:	
Purge water of			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	-
range mater c	•	_	•	_	C	_	_		
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	` ′			ters for three	· /	dings within the fo	` '	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1022	10.1	407.5	0.89	6.07	-15.4		4.33		
1025	10.1	408.8	1.02	6.07	-19.9		4.33		
1028	9.8	410.6	1.41	6.08	-29.1		4.33		
							4.55		
1031	- —	409.7	1.42	6.08	-35.7				
1034	8.6	405.6	1.62	6.08	-39.4				
1037	7.7	398.7	1.83	6.08	-42.0				
1040	7.0	384.6	1.86	6.08	-42.5				
SAMPLE CO	DLLECTION D	OATA							
Sample Colle	ected With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Stee	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee	dure:	Alconox Was	sh 🗍	Tap Rinse	DI Water	Dedicated		_	
(By Numerica	al Order)	Other	_	•					
		II II Ottici							
, ,	,	-	, sheen, etc.):	CLEAR, CO	LORLESS, NO/N	IS, FLOATING PA	RTICULATES		
, ,	,	-	, sheen, etc.):	CLEAR, CO	LORLESS, NO/N	IS, FLOATING PA	RTICULATES		
, ,	ription (color,	turbidity, odor	D.O.	CLEAR, CO	ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Desc	ription (color,	turbidity, odor						Ferrous iron (Fe II)	Comments/ Observations
Sample Desc	ription (color,	turbidity, odor	D.O.		ORP	Turbidity	DTW		
Sample Descri	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW		
Sample Describerate Replicate	Temp (°F/°C)	Cond. (uS/cm) 383.6	D.O. (mg/L)	рН 6.08	ORP (mV)	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 6.8 6.8	Cond. (uS/cm) 383.6 380.7	D.O. (mg/L) 1.88 1.90	pH 6.08 6.09 6.08	ORP (mV) -42.5 -42.5	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 6.8 6.8 6.7	Cond. (uS/cm) 383.6 380.7 380.0	D.O. (mg/L) 1.88 1.90 1.91	pH 6.08 6.09 6.09	ORP (mV) -42.5 -42.5 -42.6	Turbidity (NTU)	DTW		
Replicate 1 2 3	Temp (°F/°C) 6.8 6.8	Cond. (uS/cm) 383.6 380.7	D.O. (mg/L) 1.88 1.90	pH 6.08 6.09 6.08	ORP (mV) -42.5 -42.5	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.7 6.6 6.7	Cond. (uS/cm) 383.6 380.7 380.0 382.0	D.O. (mg/L) 1.88 1.90 1.91 1.91 1.90	6.08 6.09 6.09 6.09 6.09	ORP (mV) -42.5 -42.5 -42.6 -42.6 -42.6 TYPE (Circle a)	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.7 6.6 6.7 TYPICAL A (8260) (8010	Cond. (uS/cm) 383.6 380.7 380.0 382.0 NALYSIS AL (0) (8020) (N	D.O. (mg/L) 1.88 1.90 1.91 1.90 LOWED PF	6.08 6.09 6.08 6.09 6.09 6.09 ER BOTTLE (NWTPH-GX)	ORP (mV) -42.5 -42.5 -42.6 -42.6 TYPE (Circle ap	#DIV/0!	DTW (ft)	nalysis below)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.7 6.6 6.7 TYPICAL A (8260) (8010) (8270D) (PA	Cond. (uS/cm) 383.6 380.7 380.0 382.0 NALYSIS AL 0) (8020) (NAH) (NWTPH	D.O. (mg/L) 1.88 1.90 1.91 1.90 LOWED PP	6.08 6.09 6.09 6.09 6.09 CR BOTTLE (NWTPH-Gx)	ORP (mV) -42.5 -42.6 -42.6 TYPE (Circle ap (BTEX)) I-HCID) (8081)	#DIV/0!	DTW (ft) non-standard a	nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.8 6.8 6.7 6.6 7 TYPICAL A (8270D) (PA (pH) (Condu	Cond. (uS/cm) 383.6 383.6 380.7 380.0 382.0 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS)	D.O. (mg/L) 1.88 1.90 1.91 1.90 1.91 1.90 LOWED PERMYPH-G) (MYPH-G) (NWTF	6.08 6.09 6.09 6.09 6.09 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH-BOD) (Turbio	ORP (mV) -42.5 -42.6 -42.6 -42.6 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity	#DIV/0! #DIV/0! pplicable or write to the second	DTW (ft) non-standard a	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.8 6.8 6.7 6.6 6.7 TYPICAL A (8260) (8010 (8270D) (PA (PH) (Conduction)) (Too	Cond. (uS/cm) 383.6 383.6 380.7 380.0 382.0 NALYSIS AL (0) (8020) (N AH) (NWTPH) (activity) (TDS) (C) (Total PO4	D.O. (mg/L) 1.88 1.90 1.91 1.90 LOWED PERMYPH-G) (MTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (TSS) (E) (Total Kie	6.08 6.09 6.09 6.09 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbio dahl Nitrogen	ORP (mV) -42.5 -42.6 -42.6 TYPE (Circle ap (BTEX)) I-HCID) (8081)	#DIV/0! #DIV/0! pplicable or write to the second	DTW (ft) non-standard a	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.8 6.8 6.7 6.6 6.7 TYPICAL A (8260) (8010 (8270D) (PA (COD) (TOO (TOO (TOO (TOO (TOO (TOO (TOO (TO	Cond. (uS/cm) 383.6 380.7 380.0 382.0 NALYSIS AL (0) (8020) (N AH) (NWTPH (ctivity) (TDS (C) (Total PO4 (de) (WAD Cy	D.O. (mg/L) 1.88 1.90 1.91 1.90 LOWED PP WTPH-G) (NWTP S) (TSS) (E H) (Total Kie anide) (Free	6.08 6.09 6.09 6.09 6.09 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GOD) (Turbic Cyanide)	ORP (mV) -42.5 -42.6 -42.6 -42.6 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (1970) (Order (1970))	DTW (ft) non-standard a	(Fe II) nalysis below) WA WA ON WA ON WA ON WA ON WA WA WA WA WA WA WA WA WA W	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.8 6.8 6.7 6.6 6.7 TYPICAL A (8260) (8010 (8270D) (PA (COD) (Tood (Total Metals)	Cond. (uS/cm) 383.6 380.7 380.0 382.0 NALYSIS AL (0) (8020) (N AH) (NWTPH (ctivity) (TDS (C) (Total PO4 (e) (WAD Cy () (As) (Sb) (S	D.O. (mg/L) 1.88 1.90 1.91 1.90 LOWED PF WTPH-G) (NWTP S) (TSS) (E H) (Total Kieler) anide) (Free Ba) (Be) (Ca	6.08 6.09 6.09 6.09 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -42.5 -42.6 -42.6 -42.6 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (Pb) (Mg) (Mn) (DTW (ft) non-standard a rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA O O O O O O O O O O O O O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.8 6.8 6.7 6.6 7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanida (Total Metals) (Dissolved M	Cond. (uS/cm) 383.6 383.6 380.7 380.0 382.0 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 de) (WAD Cy de) (As) (Sb) (detals) (As) (Sb)	D.O. (mg/L) 1.88 1.90 1.91 1.90 LOWED PF WTPH-G) (NWTP S) (TSS) (E H) (Total Kieler) anide) (Free Ba) (Be) (Ca	6.08 6.09 6.09 6.09 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -42.5 -42.6 -42.6 -42.6 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (Pb) (Mg) (Mn) (DTW (ft) non-standard a rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA O O O O O O O O O O O O O	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.8 6.8 6.7 6.6 6.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 383.6 383.6 380.7 380.0 382.0 NALYSIS AL 0) (8020) (N AH) (NWTPH activity) (TDS C) (Total PO4 de) (WAD Cy de) (As) (Sb) (detals) (As) (Sb)	D.O. (mg/L) 1.88 1.90 1.91 1.90 1.91 1.90 ILOWED PERWITH-G) (NWTPH-G) (NWTPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ba) (Be) (Ca)	6.08 6.09 6.09 6.09 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -42.5 -42.6 -42.6 -42.6 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (Pb) (Mg) (Mn) (DTW (ft) non-standard a rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA O O O O O O O O O O O O O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.8 6.8 6.7 6.6 6.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 383.6 383.6 380.7 380.0 382.0 NALYSIS AL (0) (8020) (N AH) (NWTPH (activity) (TDS (C) (Total PO4 (de) (WAD Cy (de) (AS) (Sb) (detals) (AS) (Sb) (g short list)	D.O. (mg/L) 1.88 1.90 1.91 1.90 1.91 1.90 ILOWED PERWITH-G) (NWTPH-G) (NWTPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ba) (Be) (Ca)	6.08 6.09 6.09 6.09 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -42.5 -42.6 -42.6 -42.6 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (Pb) (Mg) (Mn) (DTW (ft) non-standard a rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA O O O O O O O O O O O O O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.8 6.8 6.7 6.6 6.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 383.6 383.6 380.7 380.0 382.0 NALYSIS AL (0) (8020) (N AH) (NWTPH (activity) (TDS (C) (Total PO4 (de) (WAD Cy (de) (AS) (Sb) (detals) (AS) (Sb) (g short list)	D.O. (mg/L) 1.88 1.90 1.91 1.90 1.91 1.90 ILOWED PERWITH-G) (NWTPH-G) (NWTPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ba) (Be) (Ca)	6.08 6.09 6.09 6.09 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -42.5 -42.6 -42.6 -42.6 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (Pb) (Mg) (Mn) (DTW (ft) non-standard a rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA O O O O O O O O O O O O O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.8 6.8 6.7 6.6 6.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 383.6 383.6 380.7 380.0 382.0 NALYSIS AL (0) (8020) (N AH) (NWTPH (activity) (TDS (C) (Total PO4 (de) (WAD Cy (de) (AS) (Sb) (detals) (AS) (Sb) (g short list)	D.O. (mg/L) 1.88 1.90 1.91 1.90 1.91 1.90 ILOWED PERWITH-G) (NWTPH-G) (NWTPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ba) (Be) (Ca)	6.08 6.09 6.09 6.09 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -42.5 -42.6 -42.6 -42.6 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (Pb) (Mg) (Mn) (DTW (ft) non-standard a rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA O O O O O O O O O O O O O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.8 6.8 6.7 6.6 6.7 TYPICAL A (8260) (8010 (8270D) (PA (PH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 383.6 383.6 380.7 380.0 382.0 NALYSIS AL (0) (8020) (N AH) (NWTPH (activity) (TDS (C) (Total PO4 (de) (WAD Cy (de) (AS) (Sb) (detals) (AS) (Sb) (g short list)	D.O. (mg/L) 1.88 1.90 1.91 1.90 1.91 1.90 ILOWED PERWITH-G) (NWTPH-G) (NWTPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ba) (Be) (Ca)	6.08 6.09 6.09 6.09 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -42.5 -42.6 -42.6 -42.6 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (Pb) (Mg) (Mn) (DTW (ft) non-standard a rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA O O O O O O O O O O O O O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3 Duplicate San	Temp (°F/°C) 6.8 6.8 6.7 6.6 6.7 TYPICAL A (8260) (8010 (8270D) (PA (PH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 383.6 383.6 380.7 380.0 382.0 NALYSIS AL (0) (8020) (N AH) (NWTPH (activity) (TDS (C) (Total PO4 (de) (WAD Cy (de) (AS) (Sb) (detals) (AS) (Sb) (g short list)	D.O. (mg/L) 1.88 1.90 1.91 1.90 1.91 1.90 ILOWED PERWITH-G) (NWTPH-G) (NWTPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ba) (Be) (Ca)	6.08 6.09 6.09 6.09 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -42.5 -42.6 -42.6 -42.6 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (Pb) (Mg) (Mn) (DTW (ft) non-standard a rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA O O O O O O O O O O O O O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.8 6.8 6.7 6.6 6.7 TYPICAL A (8260) (8010 (8270D) (PA (PH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 383.6 383.6 380.7 380.0 382.0 NALYSIS AL (0) (8020) (N AH) (NWTPH (activity) (TDS (C) (Total PO4 (de) (WAD Cy (de) (AS) (Sb) (detals) (AS) (Sb) (g short list)	D.O. (mg/L) 1.88 1.90 1.91 1.90 1.91 1.90 ILOWED PERWITH-G) (MTPH-G) (NWTPH-G) (Total Kielanide) (Free Ba) (Be) (Called Control (Called	6.08 6.09 6.09 6.09 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -42.5 -42.6 -42.6 -42.6 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (Pb) (Mg) (Mn) (DTW (ft) non-standard a rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA O O O O O O O O O O O O O	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ie:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 23 /2022@	1128		
Sample Nun	nber:	RGW249S-	220223		Weather:	SUNNY, 30s			
Landau Rep	resentative:	AHA/JAM/	SJL						
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Condition		Secure (YES)	Damaged (N	(O)	Describe:	FLUSH		
DTW Before	Purging (ft)	4.13	Time:	• ,	Flow through ce	ll vol		GW Meter No.(s	SLOPE #2
	Date/Time:			End Purge:	٥	2/ 23 /2022 @	1127	Gallons Purged:	
Purge water d		2/ 23 / 2022	55-gal Drum		Storage Tank	Ground		SITE TREATM	
ruige water u	usposed to.	-	55-gai Diuiii		Storage Talik	U Ground	Other	SHE TREATMI	ENI SISIEM
T:	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C) Purge Goal	(uS/cm) ls: Stablizatio	(mg/L) on of Parame	ters for three	(mV) e consecutive read	(NTU) dings within the fo	(ft) ollowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units		+/- 10%	< 0.3 ft	through cell	
1109	11.5	360.1	0.71	6.11	-8.5		4.10		
1112	11.0	365.5	0.98	6.07	-19.2		4.12		
	. ———				-				
1115	9.9	367.1	1.11	6.06	-26.1		4.12		
1118	9.4	369.0	1.17	6.05	-32.1				
1121	9.4	370.6	1.20	6.05	-34.2				
							·		
SAMPLE CO	LLECTION D	DATA							
Sample Collection			Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Was		Tap Rinse	DI Water	Dedicated	<u> </u>		
(By Numerica	_	Other	··· 🏻	rap remse	□ Di Water	Dedicated			
(by Numerica									
. •	,	₩	sheen etc.):	VERV PALI	E VELLOW SON	ME EL OATING PA	PTICHI ATES I	MII D TURRIDIT	Y NO/NS
. •	,	₩	, sheen, etc.):	VERY PALI	E YELLOW, SOM	IE FLOATING PA	RTICULATES, 1	MILD TURBIDIT	Y, NO/NS
	,	₩	p.O.	VERY PALI	E YELLOW, SOM	Turbidity	RTICULATES, I	MILD TURBIDIT	Comments/
Sample Descr	ription (color,	turbidity, odor	· ·						
Sample Descr	Temp	turbidity, odor	D.O.		ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2	Temp (°F/°C) 9.5	Cond. (uS/cm) 371.0 371.2	D.O. (mg/L) 1.18	pH 6.05 6.05	ORP (mV) -34.6	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3	Temp (°F/°C) 9.5 9.5 9.4	Cond. (uS/cm) 371.0 371.2 371.2	D.O. (mg/L) 1.18 1.19	pH 6.05 6.05 6.05	ORP (mV) -34.6 -35.0	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3 4	Temp (°F/°C) 9.5 9.5 9.4	Cond. (uS/cm) 371.0 371.2 371.2	D.O. (mg/L) 1.18 1.19 1.20	pH 6.05 6.05 6.05 6.05	ORP (mV) -34.6 -35.0 -35.3	Turbidity (NTU)	DTW	Ferrous iron	Comments/
Replicate 1 2 3	Temp (°F/°C) 9.5 9.5 9.4	Cond. (uS/cm) 371.0 371.2 371.2	D.O. (mg/L) 1.18 1.19	pH 6.05 6.05 6.05	ORP (mV) -34.6 -35.0	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.5 9.5 9.4 9.4	Cond. (uS/cm) 371.0 371.2 371.8 371.3	D.O. (mg/L) 1.18 1.19 1.20 1.19	pH 6.05 6.05 6.05 6.05 6.05	ORP (mV) -34.6 -35.0 -35.3 -35.3	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.5 9.5 9.4 9.4 9.5	Cond. (uS/cm) 371.0 371.2 371.8 371.3	D.O. (mg/L) 1.18 1.19 1.20 1.19 1.19 1.10 LOWED PE	6.05 6.05 6.05 6.05 6.05 6.05	ORP (mV) -34.6 -35.0 -35.3 -35.3 -35.1 TYPE (Circle ap	Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.5 9.5 9.4 9.4 9.5 TYPICAL A (8260) (8010	Cond. (uS/cm) 371.0 371.2 371.2 371.8 371.3 NALYSIS AI	D.O. (mg/L) 1.18 1.19 1.20 1.19 1.19 1.19 LOWED PE	6.05 6.05 6.05 6.05 6.05 8.R BOTTLE NWTPH-Gx	ORP (mV) -34.6 -35.0 -35.3 -35.3 -35.1 TYPE (Circle apple) (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.5 9.5 9.4 9.4 9.5 TYPICAL A (8260) (8010 (8270D) (PA	Cond. (uS/cm) 371.0 371.2 371.2 371.8 371.3 NALYSIS AI 0) (8020) (NAH) (NWTPH	D.O. (mg/L) 1.18 1.19 1.20 1.19 1.19 LOWED PE	6.05 6.05 6.05 6.05 6.05 RR BOTTLE NWTPH-GX;	ORP (mV) -34.6 -35.0 -35.3 -35.1 TYPE (Circle applement) (BTEX) H-HCID) (8081)	Turbidity (NTU) #DIV/0! oplicable or write	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) malysis below) WA WA WA	Comments/ Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.5 9.5 9.4 9.4 9.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 371.0 371.2 371.2 371.8 371.3 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS)	D.O. (mg/L) 1.18 1.19 1.20 1.19 1.19 LOWED PE WYPH-G) (WTPH-G) (WTPH	6.05 6.05 6.05 6.05 6.05 8.R BOTTLE NWTPH-Gx PH-Dx) (TPF	ORP (mV) -34.6 -35.0 -35.3 -35.1 TYPE (Circle applement) (BTEX) H-HCID) (8081)	#DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) malysis below) WA WA WA	Comments/ Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.5 9.5 9.4 9.4 9.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 371.0 371.2 371.2 371.8 371.3 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS)	D.O. (mg/L) 1.18 1.19 1.20 1.19 1.19 LOWED PERMYPH-G) (M-D) (NWTP	6.05 6.05 6.05 6.05 6.05 R BOTTLE NWTPH-Gx H-Dx) (TPH-OD) (Turbidahl Nitroger	ORP (mV) -34.6 -35.0 -35.3 -35.1 TYPE (Circle agonal (Circle agona) (Circle agonal (Circle agona) (Circle agonal (Circle agonal (Circle agonal (Circle agonal (Circle agonal (Circle agona) (Circle agonal (Circle agonal (Circle agonal (Circle agona) (Circle agonal (Circle agona) (Circle agonal (Circle agona) (Circle agona) (Circle agonal (Circle agona) (Circle agonal (Circle agona) (Circle	#DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) malysis below) WA WA WA	Comments/ Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.5 9.5 9.4 9.4 9.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 371.0 371.2 371.2 371.8 371.3 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS c) (Total PO- le) (WAD Cy) (As) (Sb) (D.O. (mg/L) 1.18 1.19 1.20 1.19 1.19 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.05 6.05 6.05 6.05 6.05 CR BOTTLE NWTPH-GX H-DX) (TPH COD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -34.6 -35.0 -35.3 -35.3 -35.1 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA ON ONE OF ONE OF OF ONE OF	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.5 9.5 9.4 9.4 9.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 371.0 371.2 371.2 371.8 371.3 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS (C) (Total PO4 (e) (WAD Cy (e) (As) (Sb) (etals) (As) (Sb) (Sb)	D.O. (mg/L) 1.18 1.19 1.20 1.19 1.19 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.05 6.05 6.05 6.05 6.05 CR BOTTLE NWTPH-GX H-DX) (TPH COD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -34.6 -35.0 -35.3 -35.3 -35.1 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA ON ONE OF ONE OF OF ONE OF	Comments/ Observations OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.5 9.5 9.4 9.4 9.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 371.0 371.2 371.2 371.8 371.3 NALYSIS AI (b) (8020) (N AH) (NWTPHetivity) (TD: (c) (Total PO- (de) (WAD Cy (de) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.18 1.19 1.20 1.19 1.19 1.10 LOWED PERWITPH-G) (MITPH-G) (NWTPH-G)	pH 6.05 6.05 6.05 6.05 6.05 CR BOTTLE NWTPH-GX H-DX) (TPH COD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -34.6 -35.0 -35.3 -35.3 -35.1 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA ON ONE OF ONE OF OF ONE OF	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.5 9.5 9.4 9.4 9.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 371.0 371.2 371.2 371.8 371.3 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS (C) (Total PO4 (e) (WAD Cy (e) (As) (Sb) (etals) (As) (Sb) (Sb)	D.O. (mg/L) 1.18 1.19 1.20 1.19 1.19 1.10 LOWED PERWITPH-G) (MITPH-G) (NWTPH-G)	6.05 6.05 6.05 6.05 6.05 RBOTTLE NWTPH-GX H-DX) (TPH OD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -34.6 -35.0 -35.3 -35.3 -35.1 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA ON ONE OF ONE OF OF ONE OF	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.5 9.5 9.4 9.4 9.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 371.0 371.2 371.2 371.8 371.3 NALYSIS AI (b) (8020) (N AH) (NWTPHetivity) (TD: (c) (Total PO- (de) (WAD Cy (de) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.18 1.19 1.20 1.19 1.19 1.10 LOWED PERWITPH-G) (MITPH-G) (NWTPH-G)	6.05 6.05 6.05 6.05 6.05 RBOTTLE NWTPH-GX H-DX) (TPH OD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -34.6 -35.0 -35.3 -35.3 -35.1 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA ON ONE OF ONE OF OF ONE OF	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.5 9.5 9.4 9.4 9.5 TYPICAL A (8260) (8010 (8270D) (PA (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 371.0 371.2 371.2 371.8 371.3 NALYSIS AI (b) (8020) (N AH) (NWTPHetivity) (TD: (c) (Total PO- (de) (WAD Cy (de) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.18 1.19 1.20 1.19 1.19 1.10 LOWED PERWITPH-G) (MITPH-G) (NWTPH-G)	6.05 6.05 6.05 6.05 6.05 RBOTTLE NWTPH-GX H-DX) (TPH OD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -34.6 -35.0 -35.3 -35.3 -35.1 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA ON ONE OF ONE OF OF ONE OF	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.5 9.5 9.4 9.4 9.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 371.0 371.2 371.2 371.8 371.3 NALYSIS AI (b) (8020) (N AH) (NWTPHetivity) (TD: (c) (Total PO- (de) (WAD Cy (de) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.18 1.19 1.20 1.19 1.19 1.10 LOWED PERWITPH-G) (MITPH-G) (NWTPH-G)	6.05 6.05 6.05 6.05 6.05 RBOTTLE NWTPH-GX H-DX) (TPH OD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -34.6 -35.0 -35.3 -35.3 -35.1 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA ON ONE OF ONE OF OF ONE OF	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.5 9.5 9.4 9.4 9.5 TYPICAL A (8260) (8010 (8270D) (PA (COD) (TOG) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 371.0 371.2 371.2 371.8 371.3 NALYSIS AI (b) (8020) (N AH) (NWTPHetivity) (TD: (c) (Total PO- (de) (WAD Cy (de) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.18 1.19 1.20 1.19 1.19 1.10 LOWED PERWITPH-G) (MITPH-G) (NWTPH-G)	6.05 6.05 6.05 6.05 6.05 RBOTTLE NWTPH-GX H-DX) (TPH OD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -34.6 -35.0 -35.3 -35.3 -35.1 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA ON ONE OF ONE OF OF ONE OF	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 9.5 9.5 9.4 9.4 9.5 TYPICAL A (8260) (8010 (8270D) (PA (COD) (TOG) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 371.0 371.2 371.2 371.8 371.3 NALYSIS AI (b) (8020) (N AH) (NWTPHetivity) (TD: (c) (Total PO- (de) (WAD Cy (de) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.18 1.19 1.20 1.19 1.19 1.10 LOWED PERWITPH-G) (MITPH-G) (NWTPH-G)	6.05 6.05 6.05 6.05 6.05 RBOTTLE NWTPH-GX H-DX) (TPH OD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -34.6 -35.0 -35.3 -35.3 -35.1 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA ON ONE OF ONE OF OF ONE OF	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3 1 Duplicate Sar	Temp (°F/°C) 9.5 9.5 9.4 9.4 9.5 TYPICAL A (8260) (8010 (8270D) (PA (COD) (TOG) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 371.0 371.2 371.2 371.8 371.3 NALYSIS AI (b) (8020) (N AH) (NWTPHetivity) (TD: (c) (Total PO- (de) (WAD Cy (de) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.18 1.19 1.20 1.19 1.19 1.10 LOWED PERWITPH-G) (MITPH-G) (NWTPH-G)	6.05 6.05 6.05 6.05 6.05 RBOTTLE NWTPH-GX H-DX) (TPH OD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -34.6 -35.0 -35.3 -35.3 -35.1 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) nalysis below) WA WA ON ONE OF ONE OF OF ONE OF	Comments/ Observations OR OR OR OR OR OR OR OR OR OR



Project Name	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/22/2022@	937		
Sample Num	ber:	RGW250S-	220222		Weather:	CLOUD 30'S			
Landau Repr	esentative:	AHA							
WATER LEV	EL/WELL/PU	RGE DATA							
Well Conditio	n:	Secure (YES)	Damaged (N	(O)	Describe:	FLUSHMOUN	T	
DTW Before I	Purging (ft)	3.87	Time:	910	Flow through cel	ll vol.		GW Meter No.(s	HERON 2
Begin Purge:		2/22/2022	911	End Purge:	Date/Time:	2/ /2022 @	934	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATMI	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	pm	(mV)	(NTU)	(ft)	Volume (gal)	Observations
	_					dings within the fo	_	>/= 1 flow	
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
914	9.1	103.5	12.98	7.54	98.6		4.04		
917	6.6	99.4	3.92	7.14	97.8		4.03		
920	6.5	99.2	3.85	7.12	97.4		4.03		
923	6.2	98.2	2.68	7.03	92.8		4.03		
926	6.1	97.4	2.29	6.99	88.7		4.03		
929	5.9	96.8	1.95	6.97	83.9				
932	5.9	96.6	1.85	6.96	82.2				
SAMPLE CO			D "		D (D T	DI ADDED			
Sample Collec	eted With:		Bailer	_	Pump/Pump Type	_		— D ! 1	
Made of:		Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	_	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica)	(()vdov)								
, -		Other							
, -		₩	, sheen, etc.):	LIGHT BRO	OWN, MED-HIGH	I TURB, NO ODOI	R, NO SHEEN		
Sample Descri	iption (color, t	₩	D.O.		OWN, MED-HIGH		R, NO SHEEN DTW	Ferrous iron	Comments/
, -		turbidity, odor		LIGHT BRO		Turb, NO ODOI		Ferrous iron (Fe II)	Comments/ Observations
Sample Descri	Temp	curbidity, odor	D.O.		ORP	Turbidity	DTW		
Sample Descri	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 5.9	Cond. (uS/cm) 96.6	D.O. (mg/L) 1.85	pH 6.96 6.96	ORP (mV) 81.8 81.6	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 5.9 5.9	Cond. (uS/cm) 96.6 96.7	D.O. (mg/L) 1.85 1.86	pH 6.96 6.96 6.96	ORP (mV) 81.8 81.6 81.2	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 5.9 5.9 5.9	Cond. (uS/cm) 96.6 96.7	D.O. (mg/L) 1.85 1.86 1.86	pH 6.96 6.96 6.96 6.96	ORP (mV) 81.8 81.6 81.2 81.1	Turbidity (NTU)	DTW		
Replicate 1 2 3	Temp (°F/°C) 5.9 5.9	Cond. (uS/cm) 96.6 96.7	D.O. (mg/L) 1.85 1.86	pH 6.96 6.96 6.96	ORP (mV) 81.8 81.6 81.2	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 5.9 5.9 5.9 5.9	Cond. (uS/cm) 96.6 96.6 96.6	D.O. (mg/L) 1.85 1.86 1.86 1.93	6.96 6.96 6.96 6.96 6.96	ORP (mV) 81.8 81.6 81.2 81.1 81.4	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 5.9 5.9 5.9 5.9 5.9 5.9 (8260) (8010	Cond. (uS/cm) 96.6 96.7 96.6 96.6 NALYSIS AI	D.O. (mg/L) 1.85 1.86 1.86 1.93 1.88 LOWED PE	pH 6.96 6.96 6.96 6.96 6.96 R BOTTLE NWTPH-GX	ORP (mV) 81.8 81.6 81.2 81.1 81.4 TYPE (Circle approximately (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	nalysis below)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 5.9 5.9 5.9 5.9 7YPICAL AI (8260) (8010) (8270) (PAH	Cond. (uS/cm) 96.6 96.7 96.6 96.6 NALYSIS AI (S021) (NWTPH-	D.O. (mg/L) 1.85 1.86 1.93 1.88 LOWED PE	6.96 6.96 6.96 6.96 CR BOTTLE NWTPH-Gx -Dx) (TPH-	ORP (mV) 81.8 81.6 81.2 81.1 81.4 TYPE (Circle apple) (BTEX) HCID) (8081) (#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre	DTW (ft) non-standard an	nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 5.9 5.9 5.9 5.9 5.9 5.9 68260 (8010) (8270) (PAH) (pH) (Condu	Cond. (uS/cm) 96.6 96.6 96.6 96.6 96.6 NALYSIS AI 0) (8021) (N	D.O. (mg/L) 1.85 1.86 1.93 1.88 LOWED PERMYPH-G) (MYTPH-G) (M	6.96 6.96 6.96 6.96 6.96 R BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic	ORP (mV) 81.8 81.6 81.2 81.1 81.4 TYPE (Circle ap (BTEX)) HCID) (8081) (dity) (Alkalinity)	#DIV/0! #DIV/0! pplicable or write (MCO3/CO3) (MCO3/CO3) (MCO3/CO3)	DTW (ft) non-standard an	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 5.9 5.9 5.9 5.9 5.9 TYPICAL AI (8260) (8010 (8270) (PAH (pH) (Condu	Cond. (uS/cm) 96.6 96.6 96.6 96.6 96.6 NALYSIS AI () (8021) (NUTPH- () (NWTPH- () (Total PO-	D.O. (mg/L) 1.85 1.86 1.86 1.93 1.88 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B	6.96 6.96 6.96 6.96 6.96 CR BOTTLE NWTPH-Gx (-Dx) (TPH-GD) (Turbid dall Nitroger	ORP (mV) 81.8 81.6 81.2 81.1 81.4 TYPE (Circle apple) (BTEX) HCID) (8081) (#DIV/0! #DIV/0! pplicable or write (MCO3/CO3) (MCO3/CO3) (MCO3/CO3)	DTW (ft) non-standard an	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 5.9 5.9 5.9 5.9 5.9 TYPICAL AI (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid	Cond. (uS/cm) 96.6 96.6 96.6 96.6 96.6 NALYSIS AI 0) (8021) (N I) (NWTPH- lectivity) (TD: C) (Total PO- e) (WAD Cy	D.O. (mg/L) 1.85 1.86 1.86 1.93 1.88 LOWED PE JWTPH-G) (D) (NWTPH S) (TSS) (B d) (Total Kie anide) (Free	6.96 6.96 6.96 6.96 6.96 CR BOTTLE NWTPH-Gx CD) (Turbid dahl Nitroger Cyanide)	ORP (mV) 81.8 81.6 81.2 81.1 81.4 TYPE (Circle ap (BTEX)) HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write: (HCO3/CO3) (GNO2)	DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA O WA WA	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 5.9 5.9 5.9 5.9 TYPICAL AI (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals)	Cond. (uS/cm) 96.6 96.6 96.6 96.6 NALYSIS AI 0) (8021) (NUTPH- etivity) (TDel C) (Total PO- e) (WAD Cy 0) (As) (Sb) (D.O. (mg/L) 1.85 1.86 1.86 1.93 1.88 LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.96 6.96 6.96 6.96 6.96 CR BOTTLE NWTPH-GX C-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 81.8 81.6 81.2 81.1 81.4 TYPE (Circle application of the content o	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 5.9 5.9 5.9 5.9 5.9 TYPICAL AI (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals)	Cond. (uS/cm) 96.6 96.6 96.7 96.6 96.6 NALYSIS AI (NWTPH- ctivity) (TDt C) (Total PO- ce) (WAD Cy (As) (Sb) (St cetals) (As) (St	D.O. (mg/L) 1.85 1.86 1.86 1.93 1.88 LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.96 6.96 6.96 6.96 6.96 CR BOTTLE NWTPH-GX C-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 81.8 81.6 81.2 81.1 81.4 TYPE (Circle application of the content o	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 5.9 5.9 5.9 5.9 5.9 TYPICAL Al (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Me	Cond. (uS/cm) 96.6 96.6 96.7 96.6 96.6 NALYSIS AI (NWTPH- ctivity) (TDt C) (Total PO- ce) (WAD Cy (As) (Sb) (St cetals) (As) (St	D.O. (mg/L) 1.85 1.86 1.86 1.93 1.88 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.96 6.96 6.96 6.96 6.96 CR BOTTLE NWTPH-GX C-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 81.8 81.6 81.2 81.1 81.4 TYPE (Circle application of the content o	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 5.9 5.9 5.9 5.9 5.9 TYPICAL Al (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Me	Cond. (uS/cm) 96.6 96.6 96.6 96.6 96.6 NALYSIS AI () (8021) (N I) (NWTPH- ctivity) (TD: C) (Total PO- ce) (WAD Cy) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 1.85 1.86 1.86 1.93 1.88 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.96 6.96 6.96 6.96 6.96 CR BOTTLE NWTPH-GX C-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 81.8 81.6 81.2 81.1 81.4 TYPE (Circle application of the content o	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 5.9 5.9 5.9 5.9 5.9 TYPICAL Al (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Me	Cond. (uS/cm) 96.6 96.6 96.6 96.6 96.6 NALYSIS AI () (8021) (N I) (NWTPH- ctivity) (TD: C) (Total PO- ce) (WAD Cy) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 1.85 1.86 1.86 1.93 1.88 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.96 6.96 6.96 6.96 6.96 CR BOTTLE NWTPH-GX C-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 81.8 81.6 81.2 81.1 81.4 TYPE (Circle application of the content o	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 5.9 5.9 5.9 5.9 5.9 TYPICAL Al (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Me	Cond. (uS/cm) 96.6 96.6 96.6 96.6 96.6 NALYSIS AI () (8021) (N I) (NWTPH- ctivity) (TD: C) (Total PO- ce) (WAD Cy) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 1.85 1.86 1.86 1.93 1.88 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.96 6.96 6.96 6.96 6.96 CR BOTTLE NWTPH-GX C-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 81.8 81.6 81.2 81.1 81.4 TYPE (Circle application of the content o	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 5.9 5.9 5.9 5.9 5.9 TYPICAL AI (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Methane Eth	Cond. (uS/cm) 96.6 96.6 96.6 96.6 96.6 NALYSIS AI (NWTPH- ctivity) (TD: C) (Total PO- ce) (WAD Cy) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L) 1.85 1.86 1.86 1.93 1.88 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.96 6.96 6.96 6.96 6.96 CR BOTTLE NWTPH-GX C-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 81.8 81.6 81.2 81.1 81.4 TYPE (Circle application of the content o	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 5.9 5.9 5.9 5.9 5.9 TYPICAL AI (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Methane Eth	Cond. (uS/cm) 96.6 96.6 96.6 96.6 96.6 NALYSIS AI (NWTPH- ctivity) (TD: C) (Total PO- ce) (WAD Cy) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L) 1.85 1.86 1.86 1.93 1.88 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.96 6.96 6.96 6.96 6.96 CR BOTTLE NWTPH-GX C-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 81.8 81.6 81.2 81.1 81.4 TYPE (Circle application of the content o	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY	Temp (°F/°C) 5.9 5.9 5.9 5.9 5.9 TYPICAL AI (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Methane Eth	Cond. (uS/cm) 96.6 96.6 96.6 96.6 96.6 NALYSIS AI (NWTPH- ctivity) (TD: C) (Total PO- ce) (WAD Cy) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L) 1.85 1.86 1.86 1.93 1.88 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.96 6.96 6.96 6.96 6.96 CR BOTTLE NWTPH-GX C-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) 81.8 81.6 81.2 81.1 81.4 TYPE (Circle application of the content o	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON ONE OF THE CONTRACT OF T	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	e:	Boeing Ren	ton		Project Numbe	er:	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/22/2022	@ 1301		
Sample Num	nber:	RGW253I-	220222		Weather:	CLOIUDY 30'S			
Landau Repr	resentative:	AHA							
WATER LEV	FI/W/FII/DI	IRGE DATA							
WATER ELV Well Conditio		Secure (YES)	Damaged (N	(O)	Describe:	FLUSHMOUN	Т	
			,	- ,			TEOSIMOON		HED ON 2
DTW Before I		5.15	Time:		Flow through ce			GW Meter No.(s	
Begin Purge:			1237	End Purge:		2/ 22 /2022 @		Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATME	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)		(mV)	(NTU)	(ft)	Volume (gal)	Observations
	+/- 3%	ls: Stablizatio +/- 3%		+/- 0.1 units		dings within the fo +/- 10%	ollowing limits < 0.3 ft	>/= 1 flow through cell	
1240						., 10,0		tiii ougii teii	
1240	10.1	266.1	1.29	6.58	106.2		5.15		
1243	9.1	264.5	1.19	6.57	101.6		5.15		
1246	7.7	257.3	1.14	6.57	98.9		5.15		
1249	6.5	249.2	1.17	6.57	98.5		5.15		_
1252	6.1	242.3	1.19	6.57	98.5				
SAMPLE CO	LLECTION D	OATA	<u> </u>						
Sample Collec	cted With:		Bailer		Pump/Pump Type	e BLADDER			
Made of:		Stainless Stee	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Was	.h 🗀	Tap Rinse	DI Water	Dedicated	_	_	
	_		"·	rap remse	Di water	Dedicated			
I Rv Numerica	d Order)	Other							
(By Numerica		Other	sheen etc.):	NO COLOR	LOW TURB NO	O ODOR NO SHE	FN		
. •		₩	, sheen, etc.):	NO COLOR	, LOW TURB, N	O ODOR, NO SHE	EN		
. •		₩	, sheen, etc.):	NO COLOR	, LOW TURB, NO	O ODOR, NO SHE	EN DTW	Ferrous iron	Comments/
Sample Descr	ription (color,	turbidity, odor	<u>-</u>					Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	Temp	turbidity, odor	D.O.		ORP	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm) 240.8	D.O. (mg/L)	рН 6.57	ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 6.0	Cond. (uS/cm) 240.8	D.O. (mg/L) 1.19	pH 6.57 6.57	ORP (mV) 98.7	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm) 240.8	D.O. (mg/L)	рН 6.57	ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 6.0	Cond. (uS/cm) 240.8	D.O. (mg/L) 1.19	pH 6.57 6.57	ORP (mV) 98.7	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 6.0 6.1	Cond. (uS/cm) 240.8 240.4 239.8	D.O. (mg/L) 1.19 1.17	pH 6.57 6.57 6.57	ORP (mV) 98.7 98.7	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.0 6.1 6.0	Cond. (uS/cm) 240.8 240.4 239.8 239.5 240.1	D.O. (mg/L) 1.19 1.17 1.19 1.22 1.19	6.57 6.57 6.57 6.57 6.57	ORP (mV) 98.7 98.7 98.7 98.7	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.0 6.1 6.0 6.0	Cond. (uS/cm) 240.8 240.4 239.8 239.5 240.1	D.O. (mg/L) 1.19 1.17 1.19 1.22 1.19	pH 6.57 6.57 6.57 6.57 6.57 6.57	98.7 98.7 98.7 98.7 98.7 98.7	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.0 6.1 6.0 6.0 TYPICAL A (8260) (8010	Cond. (uS/cm) 240.8 240.4 239.8 239.5 240.1 NALYSIS AI (0) (8020) (N	D.O. (mg/L) 1.19 1.17 1.19 1.22 1.19 LOWED PERWYPH-G) (WTPH-G)	6.57 6.57 6.57 6.57 6.57 6.57 CR BOTTLE	ORP (mV) 98.7 98.7 98.7 98.7 98.7 74 (Circle ap () (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 6.0 6.1 6.0 6.0 7YPICAL A (8260) (8010 (8270D) (PA	Cond. (uS/cm) 240.8 240.4 239.8 239.5 240.1 NALYSIS AI 0) (8020) (NAH) (NWTPH	D.O. (mg/L) 1.19 1.17 1.19 1.22 1.19 LOWED PERMITPH-G) (MI-D) (NWTF	6.57 6.57 6.57 6.57 6.57 6.57 CR BOTTLE (NWTPH-GX) PH-DX) (TPH	98.7 98.7 98.7 98.7 98.7 98.7 174PE (Circle ap.) (BTEX)	#DIV/0!	DTW (ft) non-standard arrease)	(Fe II) nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.0 6.1 6.0 6.0 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 240.8 240.4 239.8 239.5 240.1 NALYSIS AL 0) (8020) (N AH) (NWTPHactivity) (TDS)	D.O. (mg/L) 1.19 1.17 1.19 1.22 1.19 1.20 LOWED PERIVIPH-G) (M-D) (NWTF	6.57 6.57 6.57 6.57 6.57 6.57 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH-BOD) (Turbi	98.7 98.7 98.7 98.7 98.7 98.7 98.7 174PE (Circle aport) (BTEX) H-HCID) (8081) dity) (Alkalinity	#DIV/0! #DIV/0! pplicable or write to the second	DTW (ft) non-standard arrease)	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.0 6.0 6.1 6.0 6.0 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 240.8 240.4 239.8 239.5 240.1 NALYSIS AI (0) (8020) (N AH) (NWTPHactivity) (TDS C) (Total PO4	D.O. (mg/L) 1.19 1.17 1.19 1.22 1.19 1.22 1.19 LOWED PERWITPH-G) (MATTER) (TSS) (ES) (Total Kiese)	6.57 6.57 6.57 6.57 6.57 6.57 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Dx) (Turbicdahl Nitroger	98.7 98.7 98.7 98.7 98.7 98.7 174PE (Circle ap.) (BTEX)	#DIV/0! #DIV/0! pplicable or write to the second	DTW (ft) non-standard arrease)	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.0 6.0 6.1 6.0 6.0 7YPICAL A (8260) (8010 (8270D) (PA (COD) (Total Cyanid	Cond. (uS/cm) 240.8 240.4 239.8 239.5 240.1 NALYSIS AI (0) (8020) (N AH) (NWTPHetivity) (TDS	D.O. (mg/L) 1.19 1.17 1.19 1.22 1.19 LOWED PERIVIPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Total Kielanide) (Freedmide)	pH 6.57 6.57 6.57 6.57 6.57 CR BOTTLE (NWTPH-GX) PH-Dx) (TPH-GX) DH-Dx) (TPH-GX) CH-Dx) (Turbic-GAH) (Turbic-GAH) (Turbic-GAH) (Turbic-Cyanide)	ORP (mV) 98.7 98.7 98.7 98.7 98.7 TYPE (Circle ap (BTEX)) H-HCID) (8081) dity) (Alkalinity (Alkalinity)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gr.) (HCO3/CO3) (O/NO2)	DTW (ft) non-standard ar rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA Solution W	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.0 6.1 6.0 6.0 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 240.8 240.4 239.8 239.5 240.1 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 le) (WAD Cy) (As) (Sb) (D.O. (mg/L) 1.19 1.17 1.19 1.22 1.19 LOWED PE (WTPH-G) (NWTF (S) (TSS) (E) (Total Kie anide) (Free Ba) (Be) (Ca	pH 6.57 6.57 6.57 6.57 6.57 CR BOTTLE (NWTPH-Gx, PH-Dx) (TPH-GX) (TPH	ORP (mV) 98.7 98.7 98.7 98.7 98.7 78.7 TYPE (Circle aporture) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write in the interpolation of the interpo	DTW (ft) non-standard ar rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.0 6.1 6.0 6.0 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 240.8 240.4 239.8 239.5 240.1 NALYSIS AI (NWTPHetivity) (TDS (C) (Total PO4 (le) (WAD Cy () (As) (Sb) ((cetals) (As) (Sb) (D.O. (mg/L) 1.19 1.17 1.19 1.22 1.19 LOWED PE (WTPH-G) (NWTF (S) (TSS) (E) (Total Kie anide) (Free Ba) (Be) (Ca	pH 6.57 6.57 6.57 6.57 6.57 CR BOTTLE (NWTPH-Gx, PH-Dx) (TPH-GX) (TPH	ORP (mV) 98.7 98.7 98.7 98.7 98.7 78.7 TYPE (Circle aporture) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write in the interpolation of the interpo	DTW (ft) non-standard ar rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.0 6.0 6.1 6.0 6.0 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 240.8 240.4 239.8 239.5 240.1 NALYSIS AI (NWTPHetivity) (TDS (C) (Total PO4 (le) (WAD Cy () (As) (Sb) ((cetals) (As) (Sb) (D.O. (mg/L) 1.19 1.17 1.19 1.22 1.19 LOWED PERMYPH-G) (MITPH-G) (NWTPH-G) (NWTPH-G) (MITPH-G) (MITPH	pH 6.57 6.57 6.57 6.57 6.57 CR BOTTLE (NWTPH-Gx, PH-Dx) (TPH-GX) (TPH	ORP (mV) 98.7 98.7 98.7 98.7 98.7 78.7 TYPE (Circle aporture) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write in the interpolation of the interpo	DTW (ft) non-standard ar rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.0 6.0 6.1 6.0 6.0 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 240.8 240.4 239.8 239.5 240.1 NALYSIS AI (0) (8020) (N AH) (NWTPHetivity) (TDS (C) (Total PO4) (e) (WAD Cy (e) (As) (Sb) (e) g short list)	D.O. (mg/L) 1.19 1.17 1.19 1.22 1.19 LOWED PERMYPH-G) (MITPH-G) (NWTPH-G) (NWTPH-G) (MITPH-G) (MITPH	pH 6.57 6.57 6.57 6.57 6.57 CR BOTTLE (NWTPH-Gx, PH-Dx) (TPH-GX) (TPH	ORP (mV) 98.7 98.7 98.7 98.7 98.7 78.7 TYPE (Circle aporture) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write in the interpolation of the interpo	DTW (ft) non-standard ar rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.0 6.0 6.1 6.0 6.0 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 240.8 240.4 239.8 239.5 240.1 NALYSIS AI (0) (8020) (N AH) (NWTPHetivity) (TDS (C) (Total PO4) (e) (WAD Cy (e) (As) (Sb) (e) g short list)	D.O. (mg/L) 1.19 1.17 1.19 1.22 1.19 LOWED PERMYPH-G) (MITPH-G) (NWTPH-G) (NWTPH-G) (MITPH-G) (MITPH	pH 6.57 6.57 6.57 6.57 6.57 CR BOTTLE (NWTPH-Gx, PH-Dx) (TPH-GX) (TPH	ORP (mV) 98.7 98.7 98.7 98.7 98.7 78.7 TYPE (Circle aporture) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write in the interpolation of the interpo	DTW (ft) non-standard ar rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.0 6.0 6.1 6.0 6.0 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 240.8 240.4 239.8 239.5 240.1 NALYSIS AI (0) (8020) (N AH) (NWTPHetivity) (TDS (C) (Total PO4) (e) (WAD Cy (e) (As) (Sb) (e) g short list)	D.O. (mg/L) 1.19 1.17 1.19 1.22 1.19 LOWED PERMYPH-G) (MITPH-G) (NWTPH-G) (NWTPH-G) (MITPH-G) (MITPH	pH 6.57 6.57 6.57 6.57 6.57 CR BOTTLE (NWTPH-Gx, PH-Dx) (TPH-GX) (TPH	ORP (mV) 98.7 98.7 98.7 98.7 98.7 78.7 TYPE (Circle aporture) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write in the interpolation of the interpo	DTW (ft) non-standard ar rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.0 6.0 6.1 6.0 6.0 7YPICAL A (8260) (8010 (8270D) (PA (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 240.8 240.4 239.8 239.5 240.1 NALYSIS AI (0) (8020) (N AH) (NWTPHetivity) (TDS (C) (Total PO4) (e) (WAD Cy (e) (As) (Sb) (e) g short list)	D.O. (mg/L) 1.19 1.17 1.19 1.22 1.19 LOWED PERIVETH-G) (MTPH-G) (NWTPH-G) (NWTPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	pH 6.57 6.57 6.57 6.57 6.57 CR BOTTLE (NWTPH-Gx, PH-Dx) (TPH-GX) (TPH	ORP (mV) 98.7 98.7 98.7 98.7 98.7 78.7 TYPE (Circle aporture) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write in the interpolation of the interpo	DTW (ft) non-standard ar rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.0 6.0 6.1 6.0 6.0 7YPICAL A (8260) (8010 (8270D) (PA (COD) (TOG) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 240.8 240.4 239.8 239.5 240.1 NALYSIS AI (0) (8020) (N AH) (NWTPHetivity) (TDS (C) (Total PO4) (e) (WAD Cy (e) (As) (Sb) (e) g short list)	D.O. (mg/L) 1.19 1.17 1.19 1.22 1.19 LOWED PERIVETH-G) (MTPH-G) (NWTPH-G) (NWTPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	pH 6.57 6.57 6.57 6.57 6.57 CR BOTTLE (NWTPH-Gx, PH-Dx) (TPH-GX) (TPH	ORP (mV) 98.7 98.7 98.7 98.7 98.7 78.7 TYPE (Circle aporture) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write in the interpolation of the interpo	DTW (ft) non-standard ar rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 6.0 6.0 6.1 6.0 6.0 7YPICAL A (8260) (8010 (8270D) (PA (COD) (TOG) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 240.8 240.4 239.8 239.5 240.1 NALYSIS AI (0) (8020) (N AH) (NWTPHetivity) (TDS (C) (Total PO4) (e) (WAD Cy (e) (As) (Sb) (e) g short list)	D.O. (mg/L) 1.19 1.17 1.19 1.22 1.19 LOWED PERIVETH-G) (MTPH-G) (NWTPH-G) (NWTPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	pH 6.57 6.57 6.57 6.57 6.57 CR BOTTLE (NWTPH-Gx, PH-Dx) (TPH-GX) (TPH	ORP (mV) 98.7 98.7 98.7 98.7 98.7 78.7 TYPE (Circle aporture) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write in the interpolation of the interpo	DTW (ft) non-standard ar rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ne:	Boeing Ren	ton		Project Number	er <u>: </u>	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 21 /2022@			
Sample Nun	nber:	RGW263S-	2202		Weather:	SUNNY 50'S			
Landau Rep	resentative:								
WATER LEV	VEL/WELL/PU	IDCE DATA							
)	Dama and O	IO)	Dagariba	Eluah Maunt		
Well Condition		Secure (YES		Damaged (N	ŕ		Flush Mount		
DTW Before		7.28	Time:	1520		-		GW Meter No.(s)
Begin Purge:	Date/Time:		}	End Purge:	Date/Time:	2/ /2022 @		Gallons Purged:	
Purge water of	disposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	•	(mV)	(NTU)	(ft)	Volume (gal)	Observations
						dings within the fo		>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
	_								
	\mathbf{W}_{i}	ATER	LEV	EL O	NLY	-	-		
							-		
SAMPLE CO	LLECTION E	OATA							
Sample Colle	ected With:		Bailer		Pump/Pump Type	e			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee	dure:	Alconox Was	sh 🗇	Tap Rinse	DI Water	Dedicated			
(By Numerica				F	₩	ш			
		II II ()ther							
. •		Other	t-)						
	ription (color,	—	, sheen, etc.)	:					
Sample Descri	ription (color,	—	, sheen, etc.)		ORP	Turbidity	DTW	Ferrous iron	Comments/
		turbidity, odor		рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descri Replicate	ription (color,	turbidity, odor	D.O.			•			
Sample Description Replicate	ription (color,	turbidity, odor	D.O.			•			
Sample Descri Replicate	ription (color,	turbidity, odor	D.O.			•			
Sample Description Replicate	ription (color,	turbidity, odor	D.O.			•			
Replicate 1 2	ription (color,	turbidity, odor	D.O.			•			
Replicate 1 2 3 4	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pH	(mV)	(NTU)			
Replicate 1 2 3	ription (color,	turbidity, odor	D.O.			•			
Replicate 1 2 3 4	Temp (°F/°C) #DIV/0!	Cond. (uS/cm) #DIV/0!	D.O. (mg/L) #DIV/0!	pH	(mV) 	(NTU)	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) #DIV/0!	Cond. (uS/cm) #DIV/0!	D.O. (mg/L) #DIV/0!	pH #DIV/0! ER BOTTLE	#DIV/0!	(NTU) #DIV/0!	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) #DIV/0! TYPICAL A (8260) (801	#DIV/0! NALYSIS AI (0) (8020) (N	#DIV/0! LOWED PI	#DIV/0! ER BOTTLE (NWTPH-Gx	#DIV/0! TYPE (Circle a) (BTEX)	(NTU) #DIV/0!	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (801) (8270D) (PA	#DIV/0! NALYSIS AI 0) (8020) (NAH) (NWTPH	#DIV/0! LOWED PINWTPH-G)	#DIV/0! ER BOTTLE (NWTPH-GX PH-Dx) (TPF	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081)	#DIV/0!	non-standard a	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (801 (8270D) (P4	#DIV/0! NALYSIS AI (0) (8020) (N AH) (NWTPH activity) (TD:	#DIV/0! LOWED PINWTPH-G) H-D) (NWTI	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081)	#DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (0	non-standard a	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (801 (8270D) (P4 (pH) (Conduction)	#DIV/0! NALYSIS AI (0) (8020) (N AH) (NWTPH activity) (TD:	#DIV/0! **LOWED PI **WTPH-G) H-D) (NWTI S) (TSS) (I **4) (Total Kick)	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPF BOD) (Turbi	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity	#DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (0	non-standard a	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	#DIV/0! #TYPICAL A (8260) (801 (8270D) (PA (COD) (TOO	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD: C) (Total PO- de) (WAD Cy	#DIV/0! **LOWED PI **WTPH-G) H-D) (NWTI **S) (TSS) (I **A) (Total Kie **ranide) (Free **ranide) (Free	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger Cyanide)	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (0	non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA O WA O NO2) (F)	Observations OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! #TYPICAL A (8260) (801) (8270D) (PA (COD) (Total Cyanic) (Total Metals)	#DIV/0! #DIV/0! **NALYSIS AI 0) (8020) (N AH) (NWTPH detivity) (TD: C) (Total PO- de) (WAD Cy) (As) (Sb) (#DIV/0! #DIV/0! **LOWED PI **WTPH-G) I-D) (NWTI **S) (TSS) (I **4) (Total Kic **ranide) (Free **Ba) (Be) (C	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger the Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (G /NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) nalysis below) WA WA ON (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! #TYPICAL A (8260) (801) (8270D) (PA (COD) (Total Cyanic) (Total Metals)	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH Letivity) (TD: C) (Total PO- de) (WAD Cy) (As) (Sb) (letals) (As) (Sb) (#DIV/0! #DIV/0! **LOWED PI **WTPH-G) I-D) (NWTI **S) (TSS) (I **4) (Total Kic **ranide) (Free **Ba) (Be) (C	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger the Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (G /NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) nalysis below) WA WA ON (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! #TYPICAL A (8260) (801 (8270D) (PA (COD) (Total Cyanic (Total Metals (Dissolved M	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH Letivity) (TD: C) (Total PO- de) (WAD Cy) (As) (Sb) (letals) (As) (Sb) (#DIV/0! #DIV/0! **LOWED PI NWTPH-G) I-D) (NWTI S) (TSS) (I 4) (Total Kie ranide) (Free Ba) (Be) (C b) (Ba) (Be) (C	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger the Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (G /NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) nalysis below) WA WA ON (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! #TYPICAL A (8260) (801 (8270D) (PA (COD) (Total Cyanic (Total Metals (Dissolved M	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD: C) (Total PO- de) (WAD Cy de) (WAD (Sb) (detals) (As) (Sb) g short list)	#DIV/0! #DIV/0! **LOWED PI NWTPH-G) I-D) (NWTI S) (TSS) (I 4) (Total Kie ranide) (Free Ba) (Be) (C b) (Ba) (Be) (C	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger the Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (G /NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) nalysis below) WA WA ON (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! #TYPICAL A (8260) (801 (8270D) (PA (COD) (Total Cyanic (Total Metals (Dissolved M	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD: C) (Total PO- de) (WAD Cy de) (WAD (Sb) (detals) (As) (Sb) g short list)	#DIV/0! #DIV/0! **LOWED PI NWTPH-G) I-D) (NWTI S) (TSS) (I 4) (Total Kie ranide) (Free Ba) (Be) (C b) (Ba) (Be) (C	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger the Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (G /NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) nalysis below) WA WA ON (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! #DIV/0! TYPICAL A (8260) (801) (8270D) (PA (COD) (Total Cyanic (Total Metals (Dissolved M VOC (Boeir Methane Eth	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD: C) (Total PO- de) (WAD Cy de) (WAD (Sb) (detals) (As) (Sb) g short list)	#DIV/0! #DIV/0! **LOWED PI NWTPH-G) I-D) (NWTI S) (TSS) (I 4) (Total Kie ranide) (Free Ba) (Be) (C b) (Ba) (Be) (C	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger the Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (G /NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) nalysis below) WA WA ON (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! #TYPICAL A (8260) (801 (8270D) (PA (COD) (Total Cyanic (Total Metals (Dissolved M	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD: C) (Total PO- de) (WAD Cy de) (WAD (Sb) (detals) (As) (Sb) g short list)	#DIV/0! #DIV/0! **LOWED PI NWTPH-G) I-D) (NWTI S) (TSS) (I 4) (Total Kie ranide) (Free Ba) (Be) (C b) (Ba) (Be) (C	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger the Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (G /NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) nalysis below) WA WA ON (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! #DIV/0! TYPICAL A (8260) (801) (8270D) (PA (COD) (Total Cyanical Cyanical Metals) (Dissolved M VOC (Boeir Methane Ether)	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD: C) (Total PO- de) (WAD Cy de) (WAD (Sb) (detals) (As) (Sb) g short list)	#DIV/0! #DIV/0! **LOWED PI NWTPH-G) I-D) (NWTI S) (TSS) (I 4) (Total Kie ranide) (Free Ba) (Be) (C b) (Ba) (Be) (C	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger the Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (G /NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) nalysis below) WA WA ON (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! #DIV/0! TYPICAL A (8260) (801) (8270D) (PA (COD) (Total Cyanical Cyanical Metals) (Dissolved M VOC (Boeir Methane Ether)	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD: C) (Total POde de) (WAD Cy de) (As) (Sb) (fetals) (As) (Sb ag short list) nane Ethene A	#DIV/0! #DIV/0! **LOWED PI NWTPH-G) I-D) (NWTI S) (TSS) (I 4) (Total Kie ranide) (Free Ba) (Be) (C b) (Ba) (Be) (C	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger the Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (G /NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) nalysis below) WA WA ON (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY	#DIV/0! #TYPICAL A (8260) (801 (8270D) (PA (PH) (Condu (COD) (Total Metals (Dissolved M VOC (Boeir Methane Eth others	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD: C) (Total POde de) (WAD Cy de) (As) (Sb) (fetals) (As) (Sb ag short list) nane Ethene A	#DIV/0! #DIV/0! **LOWED PI NWTPH-G) I-D) (NWTI S) (TSS) (I 4) (Total Kie ranide) (Free Ba) (Be) (C b) (Ba) (Be) (C	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger the Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (G /NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NC) Ni) (Ag) (Se) ((Fe II) nalysis below) WA WA ON (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	e:	Boeing Rent	on		Project Number	r:	0025217.099.0	99	
Event:		Feb. 2022			Date/Time:	2/ 21 /2022@	1602		
Sample Num	ıber:	RGW264S-	220221		Weather:	40S SUNNY W	INDY		
Landau Repr	resentative:	AHA/JAM							
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Conditio	ı GOOD	Secure (YES)		Damaged (N	(O)	Describe:	Flush Mount		
DTW Before l	Purging (ft)	5.70	Time:	15:33	Flow through cel	ll vol.		GW Meter No.(s	HERON 2
Begin Purge:	Date/Time:	2/ 21 /2022	1535	End Purge:	Date/Time:	2/ 21 /2022 @ 1:	559	Gallons Purged:	0.75
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	pm	(mV)	(NTU)	(ft)	Volume (gal)	Observations
	_					dings within the fo	~	>/= 1 flow	
	+/- 3%	+/- 3%		+/- 0.1 units		+/- 10%	< 0.3 ft	through cell	
1538	12.8	601	0.72	6.07	85.4		6.72		
1541	12.1	591	0.57	6.08	66.4		6.83		
1544	11.7	584	0.49	6.09	58.3		6.87		
1547	11.2	573	0.74	6.1	51.8		6.91		
1550	11.00	570	0.49	6.1	46.6		6.91		
1553	10.8	566	0.47	6.11	42.6		6.85		
1556	10.5	561	0.61	6.11	39.8	-	6.78		
1330	10.5	301	0.01	0.11			0.76		
SAMPLE CO	LI ECTION D	<u> </u>							
Sample Collec			Bailer		Pump/Pump Type	PERI			
Made of:		Stainless Stee	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure.	Alconox Was		Tap Rinse	DI Water	Dedicated			
(By Numerica				rup remov		Doureurea			
	ı Oraeri	II II Other							
		Other turbidity, odor,	sheen, etc.):	CLEAR LO	W TURB EFFER\	/ESCENT NO OD	OR NO SHEEN		
			sheen, etc.):	CLEAR LO	W TURB EFFER\	/ESCENT NO OD	OR NO SHEEN		
	iption (color, t	turbidity, odor,	D.O.	CLEAR LO'	ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr	iption (color,	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)			Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	iption (color, t	turbidity, odor,	D.O.		ORP	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.12	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate 1 2	Temp (°F/°C) 9.1 10.3	Cond. (uS/cm) 540 553	D.O. (mg/L) 0.49	pH 6.12 6.11	ORP (mV) 40.5	Turbidity	DTW		
Sample Descr Replicate 1 2 3	Temp (°F/°C) 9.1 10.3	Cond. (uS/cm) 540 553	D.O. (mg/L) 0.49 0.45	pH 6.12 6.11 6.11	ORP (mV) 40.5 38.4 36.8	Turbidity	DTW (ft)		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 10.3 11.7 12	Cond. (uS/cm) 540 553 560 565	D.O. (mg/L) 0.49 0.45 0.45 0.56	6.12 6.11 6.11 6.11 6.1	ORP (mV) 40.5 38.4 36.8 35.3 37.8	Turbidity (NTU) #DIV/0!	DTW (ft) 7.05	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 10.3 11.7 12 10.8	Cond. (uS/cm) 540 553 560 565 554.5	D.O. (mg/L) 0.49 0.45 0.45 0.56 0.5	6.12 6.11 6.11 6.11 6.1 6.1	ORP (mV) 40.5 38.4 36.8 35.3 37.8 TYPE (Circle ap	Turbidity (NTU)	DTW (ft) 7.05	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 10.3 11.7 12 10.8 TYPICAL A (8260) (8010	Cond. (uS/cm) 540 553 560 565 554.5 NALYSIS AL 0) (8020) (N	D.O. (mg/L) 0.49 0.45 0.45 0.56 0.5 LOWED PE	6.12 6.11 6.11 6.11 6.11 RR BOTTLE	ORP (mV) 40.5 38.4 36.8 35.3 37.8 TYPE (Circle apple) (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft) 7.05	nalysis below)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 10.3 11.7 12 10.8 TYPICAL A (8260) (8010 (8270D) (PA	Cond. (uS/cm) 540 553 560 565 554.5 NALYSIS AL 0) (8020) (N AH) (NWTPH	D.O. (mg/L) 0.49 0.45 0.56 0.5 LOWED PE WTPH-G) (6.12 6.11 6.11 6.11 6.1 RR BOTTLE NWTPH-GX H-Dx) (TPF	ORP (mV) 40.5 38.4 36.8 35.3 37.8 TYPE (Circle apple) (BTEX) H-HCID) (8081)	#DIV/0!	DTW (ft) 7.05 non-standard at rease)	nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 9.1 10.3 11.7 12 10.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 540 553 560 565 554.5 NALYSIS AL (0) (8020) (N AH) (NWTPH activity) (TDS	D.O. (mg/L) 0.49 0.45 0.56 0.5 LOWED PE WTPH-G) (-D) (NWTP)) (TSS) (B	6.12 6.11 6.11 6.11 6.11 R BOTTLE NWTPH-GX H-Dx) (TPHOD) (Turbi	ORP (mV) 40.5 38.4 36.8 35.3 37.8 TYPE (Circle apple) (BTEX) H-HCID) (8081)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grove (HCO3/CO3) (March 1998)	DTW (ft) 7.05 non-standard at rease)	nalysis below) WA WA WA	Observations OR
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Appendix C

Data Validation Memos



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Memo

To: Kathleen Goodman, Project Manager Project: PS20203450.2022

From: Caitlin Riechmann c: Project File

Tel: 206-342-1760 Fax: 206-342-1761 Date: April 1, 2022

Subject: Summary Data Quality Review

February 2022 Boeing Renton Groundwater Sampling

SWMU-168

ARI Work Order Number: 22B0294

This memo presents the summary data quality review of one primary groundwater sample and one trip blank sample collected on February 21, 2022. The samples were submitted to Analytical Resources, Inc. (ARI), located in Tukwila, Washington, a laboratory accredited by the Washington State Department of Ecology. The samples were analyzed for the volatile organic compound vinyl chloride by U.S. Environmental Protection Agency (EPA) Method 8260D with selected ion monitoring.

The samples and the analyses conducted on the samples are listed below.

Sample ID	Laboratory Sample ID	Requested Analyses
RGW230I-220221	22B0294-01	vinyl chloride
Trip Blanks	22B0294-02	vinyl chloride

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Quality Assurance Project Plan (QAPP) (Amec Foster Wheeler, 2016). The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used.

Holding times, method/trip blanks, surrogate recoveries, laboratory control samples (LCS) and laboratory control sample duplicates (LCSD), matrix spike/matrix spike duplicates (MS/MSD), field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA guidance documents (EPA, 2014).

ARI received the samples on February 21, 2022. The temperature of the coolers was recorded upon receipt and both coolers were below the maximum acceptable temperature of 6 degrees Celsius.

Organic analyses

Samples were analyzed for vinyl chloride. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. Surrogates Acceptable
- 4. LCS/LCSD Acceptable
- 5. MS/MSD Acceptable

Extra volume was not submitted for analysis of MS/MSD samples. The project frequency requirement was achieved with MS/MSD analysis conducted at other sites included in this sampling event.

6. Field Duplicates – Acceptable

Field duplicates were not collected at this site during this sampling event. The project frequency requirement of one field duplicate for every 20 samples was achieved with field duplicate samples collected at other sites included in this sampling event.

7. Reporting Limits and Laboratory Flags – Acceptable.

Overall assessment of data

The table below summarizes the data assessment. The completeness of ARI work order number 22B0294 is 100 percent. The usefulness of these data was evaluated based on EPA guidance documents listed in the introduction to this report. Few problems were identified, and analytical performance was generally within specified limits.

Sample ID	Qualified Analyte
RGW230I-220221	none
Trip Blanks	none

References

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), 2016, Quality Assurance Project Plan, Boeing Renton Facility, Renton, Washington: Prepared for the Boeing Company, February.

U.S. Environmental Protection Agency (EPA), 2014, U.S. EPA National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-014-002, August.



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Memo

To: Kathleen Goodman, Project Manager Project: PS20203450.2022

From: Caitlin Riechmann c: Project File

Tel: 206-342-1760 Fax: 206-342-1761 Date: April 1, 2022

Subject: Summary Data Quality Review

February 2022 Boeing Renton Groundwater Sampling

SWMU-172/174

ARI Group Number: 22B0293

This memo presents the summary data quality review of nine primary groundwater samples, one groundwater field duplicate, and one trip blank sample collected on February 21, 2022. The samples were submitted to Analytical Resources, Inc. (ARI), located in Tukwila, Washington, a laboratory accredited by the Washington State Department of Ecology. The samples were analyzed for the following:

- Volatile organic compounds (VOCs) (cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride) by U.S. Environmental Protection Agency (EPA) Method 8260D with selected ion monitoring;
- Total organic carbon (TOC) by Standard Method 5310B; and
- Total metals (arsenic, copper, and lead) by EPA Method 6020A.

The samples and the analyses conducted on the samples are listed below.

Sample ID	Laboratory Sample ID	Requested Analyses
RGW236S-220221	22B0293-01	all
RGW232S-220221	22B0293-02	all
RGW153S-220221	22B0293-03	all
RGW234S-220221	22B0293-04	all
RGW226S-220221	22B0293-05	all
RGW235I-220221	22B0293-06	all
RGW173S-220221	22B0293-07	all
RGW172S-220221	22B0293-08	all

Sample ID	Laboratory Sample ID	Requested Analyses
RGW152S-220221	22B0293-09	all
RGWDUP1-220221	22B0293-10	all
Trip Blanks	22B0293-11	VOCs

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Quality Assurance Project Plan (QAPP) (Amec Foster Wheeler, 2016). The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used.

Holding times, method/trip blanks, surrogate recoveries, laboratory control samples (LCS) and laboratory control sample duplicates (LCSD), matrix spike/matrix spike duplicates (MS/MSD), field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA guidance documents (EPA, 2014a and b).

ARI received the samples on February 21, 2022. The temperature of the coolers was recorded upon receipt and both coolers were below the maximum acceptable temperature of 6 degrees Celsius (°C). The laboratory logged the samples with the time on the chain-of-custody and proceeded with analysis. Due to instrument failure, the TOC samples were subcontracted to Spectra Laboratories, located in Tacoma, Washington, who received the samples from ARI on Febrary 22, 2022. The temperature of the cooler was recorded upon receipt and was above the maximum acceptable temperature of 6°C at 8.4°C. The laboratory logged the samples with the time on the chain-of-custody and proceeded with TOC analysis.

Organic analyses

Samples were analyzed for VOCs. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. Surrogates Acceptable
- 4. LCS/LCSD Acceptable
- 5. MS/MSD Acceptable
- 6. Field Duplicates Acceptable

One field duplicate was submitted for each analysis during this sampling event, meeting the project frequency requirement of five percent, or one for every 20 samples. Primary and duplicate results are summarized in the table below. The project-specific control limit for field duplicate relative percent differences (RPDs) is 30 percent for concentrations greater than five times the reporting limit. The field duplicate RPDs were within the control limits.

Sample ID/ Field Duplicate ID	Analyte	Primary Result (ng/L)	Duplicate Result (ng/L)	Reporting Limit (ng/L)	RPD (%)
RGW152S-220221/ RGWDUP1-220221	vinyl chloride	200	219	20	9
	cis-1,2-dichloroethene	1,570	1,590	20	1
	trichloroethene	522	497	20	5
	tetrachloroethene	1,840	1,710	20	7

Abbreviations

ng/L = nanograms per liter

RPD = relative percent difference

7. Reporting Limits and Laboratory Flags – Acceptable

Inorganic analyses

1. Preservation and Holding Times – Acceptable except as noted:

The temperature of the cooler upon receipt at Spectra Laboratories was above the maximum acceptable temperature, at 8.4°C. The detected TOC results are flagged with a "J."

- 2. Blanks Acceptable
- 3. LCS Acceptable
- 4. MS/MSD Acceptable
- 5. Laboratory Duplicates Acceptable
- 6. Field Duplicates Acceptable except as noted:

One field duplicate was submitted for each analysis during this sampling event, meeting the project frequency requirement of five percent, or one for every 20 samples. Primary and duplicate results are summarized in the table below. The project-specific control limit for field duplicate RPDs is 30 percent for concentrations greater than five times the reporting limit. The RPD is not calculated for results that are less than five times the reporting limit, as indicated on the table below by "NC." In these cases, the absolute value of the difference between the primary and duplicate result should not exceed the value of the reporting limit. The field duplicate RPDs were within control limits, except for total lead. The field duplicate for total lead results were above RPD control limits; primary and duplicate results for total lead are flagged with a "J."

Sample ID/ Field Duplicate ID	Analyte	Primary Result	Duplicate Result	Reporting Limit	RPD (%)
	TOC	1.50 mg/L	1.40 mg/L	0.50 mg/L	NC
RGW152S-220221/	total arsenic	2.88 µg/L	2.34 µg/L	0.200 μg/L	21
RGWDUP1-220221	total copper	5.07 μg/L	3.88 µg/L	0.500 μg/L	27
	total lead	2.78 µg/L	1.90 µg/L	0.100 μg/L	38

Abbreviations:

 μ g/L = micrograms per liter mg/L = milligrams per liter

NC = not calculated

RPD = relative percent difference

TOC = total organic carbon

7. Reporting Limits and Laboratory Flags – Acceptable

Overall assessment of data

The table below summarizes the data assessment. The completeness of work order number 22B0293 is 100 percent. The usefulness of these data was evaluated based on EPA guidance documents listed in the introduction to this report. Few problems were identified, and analytical performance was generally within specified limits. The data meet the project's data quality objectives.

Sample ID	Qualified Analyte	Reason for Qualifier	Qualified Result ¹
RGW236S-220221	TOC	Elevated cooler temperature	1.80 mg/L J
RGW232S-220221	TOC	Elevated cooler temperature	6.20 mg/L J
RGW153S-220221	TOC	Elevated cooler temperature	5.70 mg/L J
RGW234S-220221	TOC	Elevated cooler temperature	1.50 mg/L J
RGW226S-220221	TOC	Elevated cooler temperature	7.80 mg/L J
RGW235I-220221	None	NA	NA
RGW173S-220221	TOC	Elevated cooler temperature	4.73 mg/L J
RGW172S-220221	TOC	Elevated cooler temperature	3.40 mg/L J
RGW152S-220221	TOC	Elevated cooler temperature	1.50 mg/L J
NGW1323 220221	Total lead	High field duplicate RPD	2.78 μg/L J
RGWDUP1-220221	TOC	Elevated cooler temperature	1.40 mg/L J
1.000001 1 220221	Total lead	High duplicate RPD	1.90 μg/L J
Trip Blanks	none	NA	NA

Notes

Data qualifiers are as follows:
 J = The value is an estimate

Abbreviations

mg/L = milligrams per liter $\mu g/L = micrograms per liter$ NA = not applicable TOC = total organic carbon RPD = relative percent difference Memo April 1, 2022 Page 5 of 5

References

- Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), 2016, Quality Assurance Project Plan, Boeing Renton Facility, Renton, Washington: Prepared for the Boeing Company, February.
- U.S. Environmental Protection Agency (EPA), 2014a, U.S. EPA National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-014-002, August.
- EPA, 2014b, U.S. EPA National Functional Guidelines for Inorganic Superfund Data Review: EPA 540-R-013-001, August.

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Memo

To: Kathleen Goodman, Project Manager Project: PS20203450.2022

From: Caitlin Riechmann c: Project File

Tel: 206-342-1760 Fax: 206-342-1761 Date: April 4, 2022

Subject: Summary Data Quality Review

February 2022 Boeing Renton Groundwater Sampling

Building 4-78/79 SWMU/AOC Group ARI Work Order Number: 22B0316

This memo presents the summary data quality review of five primary groundwater samples, one field duplicate groundwater samples, and one trip blank sample collected on February 22, 2022. The samples were submitted to Analytical Resources, Inc. (ARI), located in Tukwila, Washington, a laboratory accredited by the Washington State Department of Ecology (Ecology). The samples were analyzed for the following:

- Volatile organic compounds (VOCs) (limited suite: benzene, vinyl chloride, cis-1,2-dichloroethene, and trichloroethene) by U.S. Environmental Protection Agency (EPA) Method 8260D;
- Total petroleum hydrocarbons as gasoline (TPH-G) by Ecology Method NWTPH Gx; and
- Total organic carbon (TOC) by Standard Method 5310B-00.

The samples and the analyses conducted on the samples are listed below.

Sample ID	Laboratory Sample ID	Requested Analyses
RGW033S-220222	22B0316-01	All
RGWDUP2-220222	22B0316-02	All
RGW034S-220222	22B0316-03	All
RGW240D-220222	22B0316-04	All
RGW143S-220222	22B0316-05	All
RGW237S-220222	22B0316-06	All
Trip Blank	22B0316-07	VOCs, TPH-G

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Quality Assurance Project Plan (QAPP) (Amec Foster Wheeler, 2016). The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used

to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used.

Holding times, method/trip blanks, surrogate recoveries, laboratory control samples (LCS) and laboratory control sample duplicates (LCSD), matrix spike/matrix spike duplicates (MS/MSD), field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in EPA guidelines (EPA, 2014a and b).

ARI received the samples on February 22, 2022. The temperature of the coolers was recorded upon receipt and all coolers were at or below the maximum acceptable temperature of 6 degrees Celsius (°C). Due to instrument failure, the TOC samples were subcontracted to Spectra Laboratories, located in Tacoma, Washington, who received the samples from ARI on February 18 and 23, 2022. Samples were received in good condition. The laboratory logged the samples with the time on the chain-of-custody and proceeded with TOC analysis.

Organic analyses

Samples were analyzed for VOCs and TPH-G. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. Surrogates Acceptable
- 4. LCS/LCSD Acceptable
- 5. MS/MSD Acceptable

Extra volume was not submitted for analysis of MS/MSD samples. The project frequency requirement was achieved with MS/MSD analysis conducted at other sites included in this sampling event.

6. Field Duplicates – Acceptable

Two field duplicates were submitted for each analysis during this sampling event, meeting the project frequency requirement of five percent, or one for every 20 samples. Primary and duplicate results are summarized in the table below. The relative percent differences (RPDs) for the field duplicate are within the project-specific control limit of 30 percent for concentrations greater than five times the reporting limit. The RPD is not calculated for results that are less than five times the reporting limit, as indicated on the table below by "NC." In these cases, the absolute value of the difference between the primary and duplicate result should not exceed the value of the reporting limit. As shown in the table below, the field duplicate results are acceptable.

Sample ID/ Field Duplicate ID	Analyte	Primary Result (μg/L)	Duplicate Result (μg/L)	Reporting Limit (µg/L)	RPD (%)
	vinyl chloride	8.90	9.28	0.20	4
RGW033S-220222/ RGWDUP2-220222	cis-1,2-dichloroethene	3.82	4.04	0.20	6
	benzene	8.41	8.57	0.20	NC
	trichloroethene	0.20 U	0.20 U	0.20	NC
	TPH-G	168	166	100	NC

Abbreviations

 μ g/L = micrograms per liter

NC = not calculated

RPD = relative percent difference

TPH-G = total petroleum hydrocarbons as gasoline

7. Reporting Limits and Laboratory Flags – Acceptable

Inorganic analyses

Samples were analyzed for TOC. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. LCS Acceptable
- 4. MS/MSD Acceptable
- 5. Laboratory Duplicates Acceptable
- 6. Field Duplicates Acceptable

One field duplicate was submitted for each analysis during this sampling event, meeting the project frequency requirement of five percent, or one for every 20 samples. Primary and duplicate results are summarized in the table below. The RPD is acceptable.

Sample ID/	Analyte	Primary Result	Duplicate Result	Reporting Limit	RPD
Field Duplicate ID		(mg/L)	(mg/L)	(mg/L)	(%)
RGW033S-220222/ RGWDUP2-220222	TOC	8.10	8.80	0.50	8

Abbreviations:

mg/L = milligrams per liter

RPD = relative percent difference

TOC = total organic carbon

7. Reporting Limits and Laboratory Flags – Acceptable

Overall assessment of data

The table below summarizes the data assessment. The completeness of work order number 22B0316 is 100 percent. Evaluation of the usefulness of these data is based on EPA guidance documents identified in the introduction to this report. No problems were identified, and analytical performance was within specified limits. The data meet the project's data quality objectives.

Sample ID	Qualified Analyte	Qualifier Reason	Qualified Result (μg/L)
RGW033S-220222	none	NA	none
RGWDUP2-220222	none	NA	none
RGW034S-220222	none	NA	none
RGW240D-220222	none	NA	none
RGW143S-220222	none	NA	none
RGW237S-220222	none	NA	none
Trip Blank	none	NA	none

Notes:

1. Data qualifiers are as follows:

J = The value is an estimate

Abbreviations:

 μ g/L = micrograms per liter

J = the value is an estimate NA = not applicable

References

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), 2016, Quality Assurance Project Plan, Boeing Renton Facility, Renton, Washington: Prepared for the Boeing Company, February.

U.S. Environmental Protection Agency (EPA), 2014a, U.S. EPA National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-014-002, August.

EPA, 2014b, U.S. EPA National Functional Guidelines for Inorganic Superfund Data Review: EPA 540-R-013-001, August.

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Memo

To: Kathleen Goodman, Project Manager Project: PS20203450.2022

From: Caitlin Riechmann c: Project File

Tel: 206-342-1760 Fax: 206-342-1761 Date: April 1, 2022

Subject: Summary Data Quality Review

February 2022 Boeing Renton Groundwater Sampling

Former Fuel Farm AOC Group ARI Work Order Number: 22B0296

This memo presents the summary data quality review of three primary groundwater samples and one field duplicate collected on February 21, 2022. The samples were submitted to Analytical Resources Inc. (ARI), a Washington State Department of Ecology (Ecology)-accredited laboratory located in Tukwila, Washington. The samples were analyzed for total petroleum hydrocarbons as diesel (TPH-D), plus motor oil (TPH-O) and Jet A (TPH-Jet A) ranges by Ecology Method NWTPH-Dx.

The samples and the analyses conducted on the samples are listed below.

Sample ID	Laboratory Sample ID	Requested Analyses
RGW211S-220221	22B0296-01	all
RGW224S-220221	22B0296-02	all
RGWDUP3-220221	22B0296-03	all
RGW221S-220221	22B0296-04	all

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Quality Assurance Project Plan (QAPP) (Amec Foster Wheeler, 2016). The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used.

Holding times, method/trip blanks, surrogate recoveries, laboratory control samples (LCS) and laboratory control sample duplicates (LCSD), matrix spike/matrix spike duplicates (MS/MSD), field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in EPA guidelines (EPA, 2014).

ARI received the samples on February 21, 2022. The temperature of the coolers was recorded upon receipt and both coolers were below the maximum acceptable temperature of 6 degrees Celsius.

Organic analyses

Samples were analyzed for TPH-D plus TPH-O and TPH-Jet A ranges. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. Surrogates Acceptable
- 4. LCS Acceptable
- 5. MS/MSD Acceptable

Extra volume was not submitted for analysis of MS/MSD samples. The project frequency requirement was achieved with MS/MSD analysis conducted at other sites included in this sampling event.

6. Field Duplicates – Acceptable except as noted:

One field duplicate was submitted for each analysis during this sampling event, meeting the project frequency requirement of 5 percent, or one for every 20 samples. Primary and duplicate results are summarized in the table below. The project-specific control limit for field duplicate relative percent differences (RPDs) is 30 percent for concentrations greater than five times the reporting limit. The RPD is not calculated for results that are less than five times the reporting limit, as indicated on the table below by "NC." In these cases, the absolute value of the difference between the primary and duplicate result should not exceed the value of the reporting limit. The field duplicate RPDs were within control limits, except for TPH-D and TPH-Jet A. Primary and duplicate results for TPH-D and TPH-Jet A are flagged with a "J."

Sample ID/ Field Duplicate ID	Analyte	Primary Result (mg/L)	Duplicate Result (mg/L)	Reporting Limit (mg/L)	RPD (%)
	TPH-D (C12-C24)	0.682	1.01	0.100	39
RGW224S-220221/ RGWDUP3-220221	TPH-O (C24-C38)	ND	ND	0.200	NC
	TPH-Jet A (C10–C18)	1.04	1.76	0.100	51

Abbreviations

mg/L = milligrams per liter NC = not calculated ND = not detected

TPH-Jet A = total petroleum hydrocarbons in the Jet A range TPH-O = total petroleum hydrocarbons as motor oil

TPH-D = total petroleum hydrocarbons as diesel

RPD = relative percent difference

7. Reporting Limits and Laboratory Flags – Acceptable except as noted:

Sample RGW211S-220221 was extracted at a volume of 50mL instead of 500mL due to an analyst error. The reporting limits were therefore elevated to levels higher than the cleanup level (0.5 mg/L) in TPH-D (1.00 mg/L), TPH-O (2.00 mg/L), and TPH-J (1.00 mg/L). No data were qualified.

Overall assessment of data

The table below summarizes the data review. The completeness of ARI work order number 22B0296 is 100 percent. Evaluation of the usefulness of these data is based on EPA guidance documents listed in the introduction to this report. Few problems were identified, and analytical performance was generally within specified limits. The data meet the project's data quality objectives.

Sample ID	Qualified Analyte	Reason for Qualifier	Qualified Result ¹ (mg/L)
RGW211S-220221	None	NA	NA
RGW224S-220221	TPH-D	Lab and field duplicate RPD	0.682 J
NGW2243 220221	TPH-Jet-A	Lab and field duplicate RPD	1.04 J
RGWDUP3-220221	TPH-D	Lab and field duplicate RPD	1.01 J
NGWD0F 3-22022 I	TPH-Jet-A	Lab and field duplicate RPD	1.76 J
RGW221S-220221	none	NA	NA

Notes:

Data qualifiers are as follows:
 J = The value is an estimate.

Abbreviations

mg/L = milligrams per liter
NA = not applicable
RPD = relative percent difference

TPH-D = total petroleum hydrocarbons as diesel TPH-Jet A = total petroleum hydrocarbons in the Jet A range

References

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), 2016, Quality Assurance Project Plan, Boeing Renton Facility, Renton, Washington: Prepared for the Boeing Company, February.

U.S. Environmental Protection Agency (EPA), 2014, U.S. EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-014-002, August.

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Memo

From:

To: Kathleen Goodman, Project Manager Project: PS20203450.2022 Project File c:

Tel: 206-342-1760 Fax: 206-342-1761 Date: April 1, 2022

Subject: Summary Data Quality Review

February 2022 Boeing Renton Groundwater Sampling

AOC-001, -002, and -003

ARI Work Order Number: 22B0330

Kathleen Goodman, Project Manager

This memo presents the summary data quality review of four primary groundwater samples and one trip blank sample collected on February 22 and 23, 2022. The samples were submitted to Analytical Resources, Inc. (ARI), located in Tukwila, Washington, a laboratory accredited by the Washington State Department of Ecology. The samples were analyzed for vinyl chloride (a volatile organic compound) by U.S. Environmental Protection Agency (EPA) Method 8260D with selected ion monitoring and total organic carbon (TOC) by Standard Method 5310B-00. The samples and the analyses conducted on the samples are listed below.

Sample ID	Laboratory Sample ID	Requested Analyses
RGW188S-220222	22B0330-01	all
RGW247S-220223	22B0330-02	all
RGW248I-220223	22B0330-03	all
RGW249S-220223	22B0330-04	all
Trip Blanks	22B0330-05	vinyl chloride

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Quality Assurance Project Plan (QAPP) (Amec Foster Wheeler, 2016). The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used.

Holding times, method/trip blanks, surrogate recoveries, laboratory control samples (LCS) and laboratory control sample duplicates (LCSD), matrix spike/matrix spike duplicates (MS/MSD), field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If

qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA guidance documents (EPA, 2014a and b).

ARI received the samples on February 23, 2022. The temperature of the coolers was recorded upon receipt and one of the coolers was above the maximum acceptable temperature of 6 degrees Celsius (°C). Due to instrument failure, the TOC samples were subcontracted to Spectra Laboratories, located in Tacoma, Washington, who received the samples from ARI on February 24, 2022. The temperature of the cooler was recorded upon receipt and was below the maximum acceptable temperature of 6 degrees Celsius. The laboratory logged the samples with the time on the chain-of-custody and proceeded with TOC analysis.

Organic analyses

Samples were analyzed for vinyl chloride. Laboratory data were evaluated for the following parameters:

1. Preservation and Holding Times – Acceptable except as noted:

The temperature of the cooler upon receipt at ARI was above the maximum acceptable temperature, at 6.8°C. The vinyl chloride results for all samples are flagged with a "J."

One sampling vial contained a bubble upon arrival at ARI. We assume that the lab used another vial with acceptable preservation and the samples were able to be analyzed normally with acceptable results. The data is not qualified for use.

- 2. Blanks Acceptable
- 3. Surrogates Acceptable
- 4. LCS/LCSD Acceptable
- 5. MS/MSD Acceptable

Extra volume was not submitted for analysis of MS/MSD samples. The project frequency requirement was achieved with MS/MSD analysis conducted at other sites included in this sampling event.

6. Field Duplicates - Acceptable

Field duplicates were not collected at this site during this sampling event. The project frequency requirement of one field duplicate for every 20 samples was achieved with field duplicate samples collected at other sites included in this sampling event.

7. Reporting Limits and Laboratory Flags – Acceptable

Inorganic analyses

Samples were analyzed for TOC. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. LCS Acceptable
- 4. MS/MSD Acceptable
- 5. Laboratory Duplicates Acceptable

6. Field Duplicates – Acceptable

Field duplicates were not collected at this site during this sampling event. The project frequency requirement of one field duplicate for every 20 samples was achieved with field duplicate samples collected at other sites included in this sampling event.

7. Reporting Limits and Laboratory Flags – Acceptable

Overall assessment of data

The table below summarizes the data assessment. The completeness of work order number 22B0330 is 100 percent. The usefulness of these data was evaluated based on EPA guidance documents listed in the introduction to this report. Few problems were identified, and analytical performance was generally within specified limits.

Sample ID	Qualified Analyte	Qualifier Reason	Qualified Result (ng/L)
RGW188S-220222	vinyl chloride	Elevated cooler temperature	141 J
RGW247S-220223	vinyl chloride	Elevated cooler temperature	127 J
RGW248I-220223	vinyl chloride	Elevated cooler temperature	598 J
RGW249S-220223	vinyl chloride	Elevated cooler temperature	359 J

Notes:

1. Data qualifiers are as follows:

J = The value is an estimate.

Abbreviations:

ng/L = nanograms per liter

References

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), 2016, Quality Assurance Project Plan, Boeing Renton Facility, Renton, Washington: Prepared for the Boeing Company, February.

U.S. Environmental Protection Agency (EPA), 2014a, U.S. EPA National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-014-002, August.

EPA, 2014b, U.S. EPA National Functional Guidelines for Inorganic Superfund Data Review: EPA 540-R-013-001, August.



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Memo

To: Kathleen Goodman, Project Manager Project: PS20203450.2022

From: Kathleen Goodman, Project Manager c: Project File

Tel: 206-342-1760 Fax: 206-342-1761 Date: April 1, 2022

Subject: Summary Data Quality Review

February 2022 Boeing Renton Groundwater Sampling

AOC-004

ARI Work Order Number: 22B0313

This memo presents the summary data quality review of one primary groundwater sample collected on February 22, 2022. The sample was submitted to Analytical Resources, Inc. (ARI), located in Tukwila, Washington, a laboratory accredited by the Washington State Department of Ecology. The sample was analyzed for total lead by U.S. Environmental Protection Agency (EPA) Method 6020A.

The sample and the analyses conducted on the sample are listed below.

Sample ID	Laboratory Sample ID	Requested Analyses
RGW250S-220222	22B0313-01	total lead

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Quality Assurance Project Plan (QAPP) (Amec Foster Wheeler, 2016). The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used.

Holding times, method/trip blanks, laboratory control samples (LCS) and laboratory control sample duplicates (LCSD), matrix spike/matrix spike duplicates (MS/MSD), field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA guidance documents (EPA, 2014).

ARI received the samples on February 22, 2022. The temperature of the coolers was recorded upon receipt; one was at and one was below the maximum acceptable temperature of 6 degrees Celsius (°C).

Inorganic analyses

Samples were analyzed for total lead. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. LCS Acceptable
- 4. MS/MSD Acceptable

Additional sample volume for MS/MSD analyses was not submitted with samples collected from this site. MS/MSD results were reported with samples not associated with project samples; therefore, sample results are evaluated based on LCS/LCSD results. Project-specific MS/MSD requirements were met with samples collected at other sites included in this sampling event. The laboratory reported MS/MSD results; but project samples are not evaluated using this data since the spiked sample was not a project sample.

5. Field Duplicates – Acceptable

Field duplicates were not collected at this site during this sampling event. The project frequency requirement of one field duplicate for every 20 samples was achieved with field duplicate samples collected at other sites included in this sampling event.

6. Reporting Limits and Laboratory Flags – Acceptable

Overall assessment of data

The table below summarizes the data assessment. The completeness of work order number 22B0313 is 100 percent. The usefulness of these data was evaluated based on EPA guidance documents listed in the introduction to this report. Few problems were identified, and analytical performance was generally within specified limits.

Sample ID	Qualified Analyte
RGW250S-220222	none

References

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), 2016, Quality Assurance Project Plan, Boeing Renton Facility, Renton, Washington: Prepared for the Boeing Company, February.

U.S. Environmental Protection Agency (EPA), 2014, U.S. EPA National Functional Guidelines for Inorganic Superfund Data Review: EPA 540-R-013-001, August.



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Memo

To: Kathleen Goodman, Project Manager Project: PS20203450.2022

From: Caitlin Riechmann c: Project File

Tel: 206-342-1760 Fax: 206-342-1761 Date: April 4, 2022

Subject: Summary Data Quality Review

February 2022 Boeing Renton Groundwater Sampling

AOC-060

ARI Work Order Numbers: 22B0319

This memo presents the summary data quality review of six primary groundwater samples, one field duplicate, and one trip blank sample collected on February 22, 2022. The samples were submitted to Analytical Resources, Inc. (ARI), located in Tukwila, Washington, a laboratory accredited by the Washington State Department of Ecology. The samples were selectively analyzed for the following:

- Volatile organic compounds (VOCs) (cis-1,2-dichloroethene, trichloroethene, and vinyl chloride) by U.S. Environmental Protection Agency (EPA) Method 8260D with selected ion monitoring; and
- Total organic carbon (TOC) by Standard Method 5310B-00.

The samples and the analyses conducted on the samples are listed below.

Sample ID	Laboratory Sample ID	Requested Analyses
RGW147S-220222	22B0319-01	all
RGW014S-220222	22B0319-02	all
RGWDUP4S-220222	22B0319-03	all
RGW012S-220222	22B0319-04	all
RGW009S-220222	22B0319-05	all
RGW253I-220222	22B0319-06	all
RGW150S-220222	22B0319-07	all
Trip Blanks	22B0319-08	VOCs

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Quality Assurance Project Plan (QAPP) (Amec Foster Wheeler, 2016). The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used

to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used.

Hold times, method/trip blanks, surrogate recoveries, laboratory control samples (LCS) and laboratory control sample duplicates (LCSD), matrix spike/matrix spike duplicates (MS/MSD), field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in EPA guidelines (EPA, 2014a and b).

Samples were received by ARI on February 22, 2022. The temperature of the coolers was recorded upon receipt; one cooler was at and one was below the maximum acceptable temperature of 6 degrees Celsius (°C). Due to instrument failure, the TOC samples were subcontracted to Spectra Laboratories, located in Tacoma, Washington, who received the samples from ARI on February 23, 2022. Samples were received in good condition. The laboratory logged the samples with the time on the chain-of-custody and proceeded with TOC analysis.

Organic analyses

Samples were analyzed for VOCs. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. Surrogates Acceptable
- 4. LCS/LCSD Acceptable
- 5. MS/MSD Acceptable

Extra volume was not submitted for analysis of MS/MSD samples. The project frequency requirement was achieved with MS/MSD analysis conducted at other sites included in this sampling event.

6. Field Duplicates – Acceptable

One field duplicate was submitted for each analysis during this sampling event, meeting the project frequency requirement of five percent, or one for every 20 samples. Primary and duplicate results are summarized in the table below. The project-specific control limit for field duplicate relative percent differences (RPDs) is 30 percent for concentrations greater than five times the reporting limit. The RPD is not calculated for results that are less than five times the reporting limit, as indicated on the table below by "NC." In these cases, the absolute value of the difference between the primary and duplicate result should not exceed the value of the reporting limit. The field duplicate RPDs were within the control limits.

Sample ID/ Field Duplicate ID	Analyte	Primary Result (ng/L)	Duplicate Result (ng/L)	Reporting Limit (ng/L)	RPD (%)
	vinyl chloride	276	286	20.0	4
RGW014S-220222/ RGWDUP4S-220222	cis-1,2-dichloroethene	133	135	20.0	1
	trichloroethene	ND	ND	20.0	NC

Abbreviations

ng/L = nanograms per liter

NC = not calculated

ND = not detected

RPD = relative percent difference

7. Reporting Limits and Laboratory Flags – Acceptable

Inorganic analyses

Samples were analyzed for TOC. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. LCS Acceptable
- 4. MS/MSD Acceptable
- 5. Laboratory Duplicates Acceptable

The laboratory did not perform duplicate analyses on the samples reviewed in this report.

6. Field Duplicates – Acceptable

One field duplicate was submitted for TOC analysis during this sampling event, meeting the project frequency requirement of five percent, or one for every 20 samples. Primary and duplicate results are summarized in the table below. The project-specific control limit for field duplicate RPDs is 30 percent for concentrations greater than five times the reporting limit. The RPD is not calculated for results that are less than five times the reporting limit, as indicated on the table below by "NC." In these cases, the absolute value of the difference between the primary and duplicate result should not exceed the value of the reporting limit. The field duplicate RPD was within the control limits.

Sample ID/ Field Duplicate ID	Analyte	Primary Result (mg/L)	Duplicate Result (mg/L)	Reporting Limit (mg/L)	RPD (%)
RGW014S-200811/ RGWDUP4-200811	TOC	2.40	2.30	0.50	NC

Abbreviations

mg/L = milligrams per liter

NC = not calculated

RPD= relative percent difference

TOC = total organic carbon

7. Reporting Limits and Laboratory Flags – Acceptable

Overall assessment of data

A summary of the data assessment is presented in the table below. The completeness of work order number 22B0319 is 100 percent. Evaluation of the usefulness of these data is based on the EPA guidance document listed in the introduction to this report. No problems were identified, and analytical performance was generally within specified limits. The data meet the project's data quality objectives.

Sample ID	Qualified Analyte
RGW147S-220222	none
RGW014S-220222	none
RGWDUP4S-220222	none
RGW012S-220222	none
RGW009S-220222	none
RGW253I-220222	none
RGW150S-220222	none
Trip Blanks	none

References

- Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), 2016, Quality Assurance Project Plan, Boeing Renton Facility, Renton, Washington: Prepared for the Boeing Company, February.
- U.S. Environmental Protection Agency (EPA), 2014a, U.S. EPA National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-014-002, August.
- EPA, 2014b, U.S. EPA National Functional Guidelines for Inorganic Superfund Data Review: EPA 540-R-013-001, August.

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Memo

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From: Caitlin Riechmann c: Project File

Tel: 206-342-1760 Fax: 206-342-1761 Date: April 1, 2022

Subject: Summary Data Quality Review

February 2022 Boeing Renton Groundwater Sampling

AOC-090

ARI Work Order Number: 22B0331

This memo summarizes the data quality review of five primary groundwater samples and a trip blank sample collected on February 23, 2022. The samples were submitted to Analytical Resources, Inc. (ARI), located in Tukwila, Washington, a laboratory accredited by the Washington State Department of Ecology (Ecology). The samples were selectively analyzed for the following:

- Volatile organic compounds (VOCs) (acetone, methylene chloride, trans-1,2-dichlorethene, cis-1,2-dichloroethene, chloroform, carbon tetrachloride, benzene, toluene, and 1,1,2-trichloroethane) by U.S. Environmental Protection Agency (EPA) Method 8260D);
- VOCs (vinyl chloride, 1,1-dichloroethene, trichloroethene, tetrachloroethene, and 1,1,2,2-tetrachloroethane) by EPA Method 8260D with selected ion monitoring (SIM);
- Total petroleum hydrocarbons in the gasoline range (TPH-G) by Ecology Method NWTPH Gx;
- Total petroleum hydrocarbons in the diesel and motor oil ranges (TPH-D and TPH-MO) by Ecology Method NWTPH-Dx (with silica gel cleanup); and
- Total organic carbon (TOC) by Standard Method 5310B-00.

The samples and the analyses conducted on the samples are listed below.

Sample ID	Laboratory Sample ID	Requested Analyses
RGW207S-220223	22B0331-01	Vinyl chloride
RGW176S-220223	22B0331-02	Vinyl chloride
RGW208S-220223	22B0331-03	Vinyl chloride
RGW178S-220223	22B0331-04	Vinyl chloride

Sample ID	Laboratory Sample ID	Requested Analyses
RGW189S-220223	22B0331-05	All except vinyl chloride
Trip Blanks	22B0331-06	All except TPH-D and TOC

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Quality Assurance Project Plan Addendum (QAPP) (Amec Foster Wheeler, 2016). The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used.

Holding times, method/trip blanks, surrogate recoveries, laboratory control samples (LCS), laboratory duplicates (LCSD), matrix spike/matrix spike duplicates (MS/MSD), field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in EPA guidelines (EPA, 2014a and b).

ARI received the samples on February 23, 2022. The temperature of the coolers was recorded upon receipt and one of the coolers was above the maximum acceptable temperature of 6 degrees Celsius (°C). Due to instrument failure, the TOC samples were subcontracted to Spectra Laboratories, located in Tacoma, Washington, who received the samples from ARI on February 24, 2022. The temperature of the cooler was recorded upon receipt and was below the maximum acceptable temperature of 6°C. The laboratory logged the samples with the time on the chain-of-custody and proceeded with TOC analysis.

Organic analyses

Samples were analyzed for VOCs and TPH. Laboratory data were evaluated for the following parameters:

1. Preservation and Holding Times – Acceptable except as noted:

The temperature of one of the coolers upon receipt at ARI was above the maximum acceptable temperature, at 6.8°C. Detected results from all samples are flagged with a "J."

Five sample vials contained bubbles upon arrival at ARI. We assume that the laboratory used another vial with acceptable preservation for the associated samples and the samples were able to be analyzed normally with acceptable results. The data is not qualified for use.

2. Blanks - Acceptable except as noted:

Trichloroethene was detected in the trip blank at a concentration of 20.7 nanograms per liter (ng/L)and in sample RGW189S-220223 at a concentration of 50.5 ng/L and the result will be flagged with a "UJ."

- 3. Surrogates Acceptable
- 4. LCS/LCSD Acceptable except as noted:

According to the laboratory's notes, carbon tetrachloride recovery was high in a continuing calibration verification (CCV) associated with analysis of the LCS and LCSD associated with sample RGW189S-220223. Carbon tetrachloride was not detected in sample RGW189S-220223 and no data is qualified for use.

5. MS/MSD – Acceptable except as noted:

According to the laboratory's notes, carbon tetrachloride recovery was high in a CCV associated with the MS and MSD performed on sample RGW189S-220223. Carbon tetrachloride was not detected in the unspiked native sample RGW189S-220223, and no data is qualified for use.

6. Field Duplicates – Acceptable

Field duplicates were not collected at this site during this sampling event. The project frequency requirement of one field duplicate for every 20 samples was achieved with field duplicate samples collected at other sites included in this sampling event.

7. Reporting Limits and Laboratory Flags – Acceptable except as noted:

The reporting limit for 1,1,2,2-tetrachloroethane from sample RGW189S-220223 was raised due to interference. 1,1,2,2-tetrachloroethane was not detected in the sample and no data are qualified for use.

Inorganic analyses

Samples were analyzed for TOC. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. LCS Acceptable
- 4. MS/MSD Acceptable
- 5. Laboratory Duplicates Acceptable
- 6. Field Duplicates Acceptable

Field duplicates were not collected at this site during this sampling event. The project frequency requirement of one field duplicate for every 20 samples was achieved with field duplicate samples collected at other sites included in this sampling event.

7. Reporting Limits and Laboratory Flags- Acceptable

Overall assessment of data

The completeness of ARI work order numbers 22B0331 is 100 percent. Evaluation of the usefulness of these data was evaluated based on EPA guidance documents listed in the introduction to this report. Few problems were identified, and analytical performance was generally within specified limits. The data, as qualified, meet the project's data quality objectives.

A summary of the data quality review is presented in the table below.

Sample ID	Qualified Analyte	Qualifier Reason	Qualified Result
RGW207S-220223	Vinyl chloride	Elevated cooler temperature	356 ng/L J
RGW176S-220223	Vinyl chloride	Elevated cooler temperature	311 ng/L J
RGW208S-220223	Vinyl chloride	Elevated cooler temperature	404 ng/L J
RGW178S-220223	Vinyl chloride	Elevated cooler temperature	361 ng/L J
	Trichloroethene	Detection in trip blank/ Elevated cooler temperature	50.5 ng/L UJ
	Toluene	Elevated cooler temperature	0.47 μg/L J
RGW189S-220223	GRO	Elevated cooler temperature	370 J μg/L
	Vinyl chloride	Elevated cooler temperature	86.7 ng/L J
	DRO	Elevated cooler temperature	0.192 mg/L J
	RRO	Elevated cooler temperature	0.263 mg/L J
Trip Blanks	None	NA	NA

Abbreviations:

 μ g/L = micrograms per liter

mg/L = milligrams per liter

NA = not applicable

ng/L = nanograms per liter

GRO = gasoline range organics

DRO = diesel range organics

RRO = motor oil range organics

References

- Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), 2016, Quality Assurance Project Plan, Boeing Renton Facility, Renton, Washington: Prepared for the Boeing Company, February.
- U.S. Environmental Protection Agency (EPA), 2014a, U.S. EPA National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-014-002, August.
- EPA, 2014b, U.S. EPA National Functional Guidelines for Inorganic Superfund Data Review: EPA 540-R-013-001, August.



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Memo

To: Kathleen Goodman, Project Manager Project: PS20203450.2022

From: Caitlin Riechmann c: Project File

Tel: (206) 342-1760 Fax: (206) 342-1761 Date: April 1, 2022

Subject: Summary Data Quality Review

February 2022 Boeing Renton Groundwater Sampling

Apron A

ARI Work Order Number: 22B0290

This memo presents the summary data quality review of one primary groundwater sample and one trip blank sample collected on February 21, 2022. The samples were submitted to Analytical Resources, Inc., (ARI), located in Tukwila, Washington, a laboratory accredited by the Washington State Department of Ecology. The samples were analyzed for the following:

- Volatile organic compounds (VOCs) (vinyl chloride and cis-1,2-dichloroethene) by U.S. Environmental Protection Agency (EPA) Method 8260D; and
- Total organic carbon (TOC) by Standard Method 5310B.

The samples and the analyses conducted on the samples are listed below.

Sample ID	Laboratory Sample ID	Requested Analyses
RGW264S-220221	22B0290-01	all
Trip Blanks-	22B0290-02	VOCs

Data were reviewed in accordance with the appropriate method procedures and criteria documented in the Quality Assurance Project Plan (QAPP) (Amec Foster Wheeler, 2016). The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used.

Holding times, method/trip blanks, surrogate recoveries, laboratory control samples (LCS) and laboratory control sample duplicates (LCSD), matrix spike/matrix spike duplicates (MS/MSD), field duplicates, and reporting limits were reviewed where available to assess compliance with applicable methods. If qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA guidance documents (EPA, 2014a and b).

ARI received the samples on February 21, 2022. The temperature of the coolers was recorded upon receipt and was below the maximum acceptable temperature of 6 degrees Celsius (°C). The laboratory logged the samples with the time on the chain-of-custody and proceeded with analysis. Due to instrument failure, the TOC sample was subcontracted to Spectra Laboratories, located in Tacoma, Washington, who received the sample from ARI on February 22, 2022. The temperature of the cooler was recorded upon receipt and was above the maximum acceptable temperature, at 6.3°C. The laboratory logged the samples with the time on the chain-of-custody and proceeded with TOC analysis.

Organic analyses

Samples were analyzed for VOCs. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. Surrogates Acceptable
- 4. LCS/LCSD Acceptable
- 5. MS/MSD Acceptable
- 6. Field Duplicates Acceptable

Field duplicates were not collected at this site during this sampling event. The project frequency requirement of one field duplicate for every 20 samples was achieved with field duplicate samples collected at other sites included in this sampling event

7. Reporting Limits and Laboratory Flags – Acceptable.

Inorganic analyses

Samples were analyzed for TOC. Laboratory data were evaluated for the following parameters:

1. Preservation and Holding Times – Acceptable except as noted:

The temperature of the cooler upon receipt at Spectra Laboratories was high at 6.3°C. The result for sample RGW264S-220221 is flagged with a "J."

- 2. Blanks Acceptable
- 3. LCS/LCSD Acceptable
- 4. MS/MSD Acceptable

Extra volume was not submitted for project specific MS/MSD analyses. Sample precision is evaluated based on LCS and LCSD recoveries. The MS/MSD project frequency requirement of one MS/MSD for every 20 samples was achieved with extra volume submitted at other sites included in this sampling event.

- 5. Laboratory Duplicates Acceptable
- 6. Field Duplicates Acceptable

Field duplicates were not collected at this site during this sampling event. The project frequency requirement of one field duplicate for every 20 samples was achieved with field duplicate samples collected at other sites included in this sampling event

7. Reporting Limits and Laboratory Flags – Acceptable.

Overall assessment of data

The table below summarizes the data assessment. The completeness of work order number 22B0290 is 100 percent. The usefulness of these data was evaluated based on EPA guidance documents listed in the introduction to this report. Few problems were identified, and analytical performance was generally within specified limits. The data meet the project's data quality objectives.

Sample ID	Qualified Analyte	Reason for Qualifier	Qualified Result ¹ (mg/L)
RGW264S-220221	Total Organic Carbon	Elevated cooler temperature	25.5 J
Trip Blanks-	none	NA	NA

Notes:

Data qualifiers are as follows:
 J = The value is an estimate

Abbreviations

mg/L = milligrams per liter NA = not applicable

References

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), 2016, Quality Assurance Project Plan, Boeing Renton Facility, Renton, Washington: Prepared for the Boeing Company, February.

U.S. Environmental Protection Agency (EPA), 2014a, U.S. EPA National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-014-002, August.

EPA, 2014b, U.S. EPA National Functional Guidelines for Inorganic Superfund Data Review: EPA 540-R-013-001, August.

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Appendix D

Historical Groundwater Data Tables

TABLE D-1: SWMU-168 HISTORICAL CONCENTRATIONS OF CONSTITUENTS OF CONCERN^{1, 2}

Boeing Renton Facility, Renton, Washington

					Wel	l ID³			
	Current				CPOC	Area			
	Cleanup				GW2	229S			
Analyte	Level ⁴	11/7/2016	3/1/2017	8/14/2017	3/5/2018	8/13/2018	3/4/2019	8/12/2019	3/9/2020
Volatile Organic Com	npounds (μg/	L)							
Vinyl Chloride	0.11	0.020 U	0.020 U	0.021	0.0273	0.020 U	0.0211	0.020 U	0.020 U

			Well ID ³										
	Current		CPOC Area										
	Cleanup				GW	2301							
Analyte	Level ⁴	8/13/2018	3/4/2019	8/12/2019	3/9/2020	8/10/2020	2/15/2021	8/10/2021	2/21/2022				
Volatile Organic Com	ipounds (μg/	/L)											
Vinyl Chloride	0.11	0.14	0.14 0.0566 0.336 0.087 0.162 0.076 0.359 J 0.164										

					Wel	l ID³			
	Current				CPOC	Area			
	Cleanup				GW:	231S			
Analyte	Level ⁴	11/7/2016	3/1/2017	8/14/2017	3/5/2018	8/13/2018	3/4/2019	8/12/2019	3/9/2020
Volatile Organic Com	ipounds (μg/	′L)							
Vinyl Chloride	0.11	0.020 U	0.020 U	0.020 U	0.0393	0.0326	0.0327	0.026	0.020 U

Notes:

- 1. Data qualifiers are as follows:
 - U = The analyte was not detected at the reporting limit indicated.
- 2. **Bolded** values exceed the cleanup levels.
- 3. S = shallow well; I = intermediate well.
- 4. Current cleanup levels obtained from Table 2 of the Cleanup Action Plan and are based on each individual SWMU or AOC.

Abbreviations:

 μ g/L = micrograms per liter

AOC = area of concern

CPOC = conditional point of compliance

TABLE D-2: SWMU-172 AND SWMU-174 GROUP HISTORICAL CONCENTRATIONS OF CONSTITUENTS OF CONCERN^{1, 2}

Boeing Renton Facility, Renton, Washington

	I									(.II.12)							
	Current								v	/ell ID³							
			Source Area														
	Cleanup		GW152S GW153S														
Analyte	Level ⁴	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	8/10/2021	2/21/2022	2/21/2022	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	8/10/2021	2/21/2022
Volatile Organic Compour	nds (µg/L)										· ·						
cis-1,2-Dichloroethene	0.03	0.530	0.892	0.719	1.66	0.144	1.330	1.57	1.59	0.278	0.204	0.0736	0.0789	0.0551	0.077	0.0582 J	0.0517
Tetrachloroethene	0.02	0.384	1.12	2.38	0.319	0.081	0.0872	1.84	1.71	0.0544	0.164	0.024	0.020 U	0.020 U	0.020 U	0.020 UJ	0.0200 U
Trichloroethene	0.02	0.145	0.278	0.412	0.579	0.020 U	0.129	0.522	0.497	0.0326	0.131	0.02 U	0.020 U	0.020 U	0.020 U	0.020 UJ	0.0200 U
Vinyl Chloride	0.11	0.0366	0.15	0.0463	0.284	0.0378	0.506	0.200	0.219	0.153	0.0859	0.249	0.266	0.135	0.220	0.193 J	0.174
Total Metals (µg/L)																	
Arsenic	1.0	7.48	3.84	1.95	6.72	7.67	16.3	2.88	2.34	4.72	11.9	5.48	3.85	4.05	32.8	32.8	4.98
Copper	3.5	16.6	8.03	2.76	7.45 J	17.2 J	9.08 J	5.07	3.88	1.58	10.2	3.09	1.73	1.68	33.9	33.9	1.45
Lead	1.0	12.1	6.13	1.09	3.89	12.5 J	5.38 J	2.78 J	1.90 J	0.351	2.76	0.712	0.372	0.326	5.80	5.80	0.302

									V	/ell ID ³							
	Current									ient Plume A	rea						
	Cleanup		GW172S GW173S														
Analyte	Level⁴	5/6/2019	8/12/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	8/10/2021	2/21/2022	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	8/10/2021	2/21/2022
Volatile Organic Compoun	nds (µg/L)																
cis-1,2-Dichloroethene	0.03	0.0581	0.027	0.305	0.214	0.0561	0.108	0.0746	0.0532	0.022	0.0378	0.0504	0.0488	0.0313	0.0505	0.0424 J	0.0280
Tetrachloroethene	0.02	0.020 U	0.0451	0.976	0.0625	0.0603	0.0624	0.020 U	0.0677	0.0561	0.0246	0.0224	0.020 U	0.020 U	0.020 U	0.020 UJ	0.0200 U
Trichloroethene	0.02	0.020 U	0.020 U	0.384	0.028	0.020 U	0.020 U	0.020 U	0.0201	0.0256	0.0379	0.0305	0.0215	0.0239	0.020 U	0.020 UJ	0.0200 U
Vinyl Chloride	0.11	0.0808	0.0376	0.209	0.369	0.0628	0.219	0.155	0.137	0.0613	0.072	0.144	0.126	0.0455	0.183	0.176 J	0.0696
Total Metals (µg/L)																	
Arsenic	1.0	7.71	10.6	32.8	7.03	10.8	10.8	7.18	11.2	12.2	15.6	11.8	6.72	7.00	9.94	11.4	13.8
Copper	3.5	2.13	3.86	27.6	2.2	6.12	3.89	2.86	2.86	1.39	4.68	1.51	0.875	3.19	3.11	5.96	2.58
Lead	1.0	0.991	1.02	15.1	1.07	2.58	1.98	1.33	1.37	0.290	1.36	0.442	0.215	0.470	0.850	1.65	0.788

									W	ell ID ³							
	Current		Downgradient Plume Area							CPOC Area							
	Cleanup		GW226S										GW	V232S			
Analyte	Level⁴	5/6/2019	8/12/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	8/10/2021	2/21/2022	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	8/10/2021	
Volatile Organic Compoun	ıds (μg/L)																
cis-1,2-Dichloroethene	0.03	0.0223	0.0259	0.0396	0.0305	0.0218	0.020 U	0.0335 J	0.0363	0.378	0.659	0.221	0.352	0.482	0.219	0.464 J	0.197
Tetrachloroethene	0.02	0.020 U	0.020 U	0.020 U	0.020 U	0.0279	0.020 U	0.0202 J	0.0200 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 UJ	0.0200 U
Trichloroethene	0.02	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 UJ	0.0200 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 UJ	0.0200 U
Vinyl Chloride	0.11	0.0459	0.029	0.038	0.0594	0.0415	0.0519	0.0516 J	0.0414	0.412	0.860	0.264	0.337	0.425	0.263	0.653 J	0.307
Total Metals (µg/L)																	
Arsenic	1.0	2.97	2.85	4.88	3.33	4.93	8.12	5.57	7.33	6.29	8.09	2.73	4.71	3.83	4.78	6.19	3.75
Copper	3.5	0.500 U	0.626	5.00	0.704	1.48	3.92	1.48	2.40	0.878	3.85	2.22	0.539	0.627	2.09	1.79	1.09
Lead	1.0	0.100 U	0.100 U	0.500	0.190	0.136	0.513	0.124	0.237	0.102	0.378	0.354	0.100 U	0.100 U	0.318	0.262	0.234

TABLE D-2: SWMU-172 AND SWMU-174 GROUP HISTORICAL CONCENTRATIONS OF CONSTITUENTS OF CONCERN^{1, 2}

Boeing Renton Facility, Renton, Washington

									W	/ell ID ³							
	Current								СР	OC Area							
	Cleanup		GW234S GW235I														
Analyte	Level ⁴	5/6/2019	8/12/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	8/10/2021	2/21/2022	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	8/10/2021	2/21/2022
Volatile Organic Compour	nds (µg/L)										·						
cis-1,2-Dichloroethene	0.03	0.0630	0.0738	0.0984	0.092	0.0914	0.020 U	0.0892	0.0591	0.0638	0.109	0.127	0.156	0.104	0.128	0.179	0.175
Tetrachloroethene	0.02	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.0200 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.0292	0.020 U	0.0200 U
Trichloroethene	0.02	0.020 U	0.020 U	0.0297	0.020 U	0.020 U	0.020 U	0.020 U	0.0200 U	0.020 U	0.0287	0.0336	0.031	0.0227	0.020 U	0.0285	0.0253
Vinyl Chloride	0.11	0.0235	0.0252	0.0302	0.032	0.0279	0.020 U	0.0497	0.0318	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.24	0.0259
Total Metals (µg/L)																	
Arsenic	1.0	2.22	1.31	27.4	5.31	3.26	6.29	1.18	1.76	0.292	0.237	0.251	0.289	0.288	0.200 U	0.200 U	0.200 U
Copper	3.5	1.93	0.869	32.9	2.43	3.21	11.4	2.58	2.13	0.714	0.573	0.935	1.08	1.30	0.727	0.689	0.687
Lead	1.0	0.843	0.280	11.8	0.671	1.25	4.13	1.01	0.930	0.182	0.127	0.235	0.223	0.304	0.174	0.179	0.159

					We	II ID ³									
	Current				СРО	C Area									
	Cleanup		GW236S												
Analyte	Level ⁴	5/6/2019	6/2019 8/12/2019 3/9/2020 5/11/2020 8/10/2020 2/15/2021 8/10/2021 2/21/2022												
Volatile Organic Compour	ıds (μg/L)														
cis-1,2-Dichloroethene	0.03	0.0281	0.0468	0.0241	0.036	0.0881	0.020 U	0.0791	0.0200 U						
Tetrachloroethene	0.02	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.0206						
Trichloroethene	0.02	0.0206	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.0200 U						
Vinyl Chloride	0.11	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.0223	0.0200 U						
Total Metals (µg/L)															
Arsenic	1.0	2.10	3.70	6.29	2.10	10.1	2.89	5.49	1.97						
Copper	3.5	2.17	0.893	21.2	4.24	10.8	9.70	2.47	5.27						
Lead	1.0	1.90	1.53	18.7	2.61	10.8	6.31	1.79	3.32						

<u>Notes</u>

- 1. Data qualifiers are as follows:
- U = The analyte was not detected at the reporting limit indicated.
- J = The value is an estimate.
- 2. **Bolded** values exceed the cleanup levels.
- 3. S = shallow well; I = intermediate well.
- 4. Current cleanup levels obtained from Table 2 of the Cleanup Action Plan and are based on each individual SWMU or AOC.

<u>Abbreviations</u>

 μ g/L = micrograms per liter

AOC = area of concern

CPOC = conditional point of compliance

TABLE D-3: BUILDING 4-78/79 SWMU/AOC GROUP HISTORICAL CONCENTRATIONS OF CONSTITUENTS OF CONCERN 1, 2

Boeing Renton Facility, Renton, Washington

	C								We	II ID ³							
	Current								Sourc	ce Area							
	Cleanup				GW	/031S							GW	033S			
Analyte	Level ⁴	5/7/2019	7/2019 8/13/2019 11/12/2019 3/11/2020 5/11/2020 8/11/2020 2/15/2021 8/11/2021 11/12/2019 3/11/2020 5/11/2020 8/11/2020 2/16/2021 8/11/2021 2/22/2022 2/22/20														2/22/2022
Volatile Organic Compound	ds (µg/L)																
Benzene	0.80	7.13	3.47	4.77	37.1	17.6	1.72 J	18.8 J	1.08	11.5	10.2	9.75	12.5	11.0	14.5	8.41	8.57
cis-1,2-Dichloroethene	0.70	0.43	0.47	0.40	0.61	0.40 J	0.67 J	0.31 J	0.20 U	2.78	21.4	39.5	188	1.64	0.55	3.82	4.04
Trichloroethene	0.23	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 UJ	0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 U	0.25	0.20 U	0.20 U	0.200 U	0.200 U
Vinyl Chloride	0.20	0.29	0.21	0.25	0.20 U	0.20 U	0.32 J	0.20 UJ	0.20 U	13.0	52.2	87.3	310	5.31	2.31	8.90	9.28
Total Petroleum Hydrocark	oons (µg/L)																
TPH-G (C7-C12)	800	1020	1390	1540	2,980	1,880	1,160	2,340	1,540	347	296	301	255	323	360	168	166

									Wel	l ID³							
	Current								Sourc	e Area							
	Cleanup				GW	/034S							GW:	244S			
Analyte	Level ⁴	8/13/2019	11/12/2019	3/11/2020	5/11/2020	8/11/2020	2/15/2021	8/11/2021	2/22/2022	5/7/2019	8/13/2019	11/12/2019	3/11/2020	5/11/2020	8/11/2020	2/15/2021	8/11/2021
Volatile Organic Compoun	ds (µg/L)																
Benzene	0.80	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.200 U	1.47	1.77	0.87	0.52	0.46	0.43	0.46	0.20 U
cis-1,2-Dichloroethene	0.70	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.200 U	2.03	0.37	0.20 U	0.68	1.06	1.12	0.68	0.22
Trichloroethene	0.23	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.200 U	0.20 U	0.20 U	0.20 U	0.23	0.20 U	0.20 U	0.29	0.20 U
Vinyl Chloride	0.20	0.39	0.39	0.20 U	0.21	0.41	0.25	1.20	0.330	1.45	0.71	0.35	0.7	0.85	0.98	0.64	0.37
Total Petroleum Hydrocarl	ons (µg/L)																
TPH-G (C7-C12)	800	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U

									We	ll ID ³							
	Current									C Area							
	Cleanup				GW	/143S							GW2	237S			
Analyte	Level⁴	8/13/2019	11/12/2019	3/10/2020	5/11/2020	8/11/2020	2/15/2021	8/11/2021	2/22/2022	8/13/2019	11/12/2019	3/10/2020	5/11/2020	8/11/2020	2/16/2021	8/11/2021	2/22/2022
Volatile Organic Compoun	ds (µg/L)																
Benzene	0.80	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.200 U	0.43	0.66	3.48	1.03	0.24	6.79 J	0.20 U	3.73
cis-1,2-Dichloroethene	0.70	2.20	0.20 U	0.21	0.20 U	1.17	0.26	0.65	0.430	0.25	0.22	1.00 U	0.20 U	0.20 U	0.20 UJ	0.20 U	0.200 U
Trichloroethene	0.23	1.05	0.20 U	0.20 U	0.20 U	0.23	0.20 U	0.20 U	0.200 U	0.20 U	0.20 U	1.00 U	0.20 U	0.20 U	0.20 UJ	0.20 U	0.200 U
Vinyl Chloride	0.20	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.200 U	0.38	0.34	1.00 U	0.20 U	0.20 U	0.31 J	0.20	0.200 U
Total Petroleum Hydrocar	bons (µg/L)																
TPH-G (C7-C12)	800	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	329	100 U	961	729	100 U	100 UJ	360	664

TABLE D-3: BUILDING 4-78/79 SWMU/AOC GROUP HISTORICAL CONCENTRATIONS OF CONSTITUENTS OF CONCERN 1, 2

Boeing Renton Facility, Renton, Washington

	Current Cleanup				СРО	ell ID ³ C Area			
Analyte	Level ⁴	8/13/2019	11/12/2019	3/10/2020	GW 5/11/2020	/240D 8/11/2020	2/15/2021	8/11/2021	2/22/2022
Volatile Organic Compoun		0/13/2019	11/12/2019	3/10/2020	5/11/2020	6/11/2020	2/13/2021	0/11/2021	2/22/2022
Benzene	0.80	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.200 U
cis-1,2-Dichloroethene	0.70	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.200 U
Trichloroethene	0.23	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.200 U
Vinyl Chloride	0.20	0.26	0.24	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.200 U
Total Petroleum Hydrocarl	oons (µg/L)								
TPH-G (C7-C12)	800	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U

Notes

- 1. Data qualifiers are as follows:
- U = The analyte was not detected at the reporting limit indicated.
- UJ = The result is estimated and was not detected at the reporting limit indicated.
- J = The value is an estimate.
- 2. **Bolded** values exceed the cleanup levels.
- 3. S = shallow well; D = deep well.
- 4. Current cleanup levels obtained from Table 2 of the Cleanup Action Plan and are based on each individual SWMU or AOC.

Abbreviations

μg/L = micrograms per liter

AOC = area of concern

CPOC = conditional point of compliance

SWMU = solid waste management unit

TPH-G = total petroleum hydrocarbons as gasoline

TABLE D-4: FORMER FUEL FARM HISTORICAL CONCENTRATIONS OF CONSTITUENTS OF CONCERN¹

Boeing Renton Facility, Renton, Washington

									Wel	l ID²							
									CPOC	Area							
	Current Cleanup		GW211S GW221S 18 5/7/2019 11/11/2019 5/11/2020 8/10/2020 2/15/2021 8/10/2021 2/21/2022 11/12/2018 5/7/2019 11/11/2019 5/11/2020 8/10/2020 2/15/2021 8/10/2021 2/21/2022														
Analyte	Level ³	11/12/2018	5/7/2019	11/11/2019	5/11/2020	8/10/2020	2/15/2021	8/10/2021	2/21/2022	11/12/2018	5/7/2019	11/11/2019	5/11/2020	8/10/2020	2/15/2021	8/10/2021	2/21/2022
Total Petroleum Hydrocar	rbons (mg/L)																
TPH-D (C12-C24)	0.5	0.341	0.124	0.120	0.282	0.192	0.284	0.140	1.00 U	1.50	0.630	1.65	1.58	7.67	1.22	1.02	0.575
Jet A	0.5	0.191	0.117	0.117	0.267	0.155	0.262	0.100 U	1.00 U	0.863	0.397	1.09	1.09	5.70	0.89	0.718	0.460

					Wel	l ID²									
	a .a				CPOC	Area									
	Current Cleanup	GW224S													
Analyte	Level ³	5/7/2019 11/11/2019 5/11/2020 8/10/2020 2/15/2021 8/10/2021 2/21/2022 2/21/202													
Total Petroleum Hydrocarl	bons (mg/L)														
TPH-D (C12-C24)	0.5	0.256	1.46	0.675	1.08	0.584	1.08	0.682	1.01						
Jet A	0.5	0.388	1.80	0.918 J	1.42	1.04	1.47	1.04	1.76						

Notes

- 1. **Bolded** values exceed the cleanup levels.
- 2. S = shallow well.
- 3. Current cleanup levels obtained from Table 2 of the Cleanup Action Plan and are based on each individual SWMU or AOC.

<u>Abbreviations</u>

AOC = area of concern

CPOC = conditional point of compliance

mg/L = milligrams per liter

SWMU = solid waste management unit

TPH-D = total petroleum hydrocarbons as diesel

TABLE D-5: AOC-003 HISTORICAL CONCENTRATIONS OF CONSTITUENTS OF CONCERN^{1, 2}

Boeing Renton Facility, Renton, Washington

									Wel	I ID ³							
					Source	e Area							Downgradien	nt Plume Area			
	Current				GW2	249S							GW ²	188 S			
Analyte	Cleanup Level⁴	11/13/2018	3/5/2019	8/14/2019	3/12/2020	8/10/2020	2/16/2021	8/12/2021	2/23/2022	11/13/2018	3/5/2019	8/14/2019	3/12/2020	8/10/2020	2/16/2021	8/12/2021	2/22/2022
Volatile Organic Compour	nds (µg/L)																
cis-1,2-Dichloroethene	0.78	0.0829	0.079	0.0526	0.0604	NA	NA	NA	NA	0.0636	0.0493	0.0361	0.0362	NA	NA	NA	NA
Tetrachloroethene	0.02	0.020 U	0.0105	0.020 U	0.020 U	NA	NA	NA	NA	0.020 U	0.0107	0.020 U	0.0244	NA	NA	NA	NA
Trichloroethene	0.16	0.020 U	0.0157	0.020 U	0.020 U	NA	NA	NA	NA	0.020 U	0.0125	0.020 U	0.020 U	NA	NA	NA	NA
Vinyl Chloride	0.24	0.629	0.424	0.367	0.334	0.261	0.366	0.517	0.359 J	0.813	0.537	0.545	0.235	0.288	0.107	0.698	0.141 J

									Wel	I ID ³							
									CPO	C Area							
	Current				GW2	247S							GW2	2481			
Analyte	Cleanup Level⁴	8/14/2019	11/12/2019	3/12/2020	5/13/2020	8/10/2020	2/16/2021	8/11/2021	2/23/2022	8/14/2019	11/12/2019	3/12/2020	5/13/2020	8/10/2020	2/16/2021	8/11/2021	2/23/2022
Volatile Organic Compoun	nds (µg/L)																
cis-1,2-Dichloroethene	0.78	0.065	0.0635	0.039	0.584	NA	NA	NA	NA	0.020 U	0.020 U	0.02 U	0.020 U	NA	NA	NA	NA
Tetrachloroethene	0.02	0.020 U	0.020 U	0.02 U	0.020 U	NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA
Trichloroethene	0.16	0.020 U	0.148	0.02 U	0.020 U	NA	NA	NA	NA	0.020 U	0.0514	0.020 U	0.020 U	NA	NA	NA	NA
Vinyl Chloride	0.24	0.613	0.504	0.305	0.409	0.392	0.405	0.678	0.127 J	0.541	0.62	0.499	0.546	0.383	0.426	0.711	0.598 J

Notes

- 1. Data qualifiers are as follows:
 - U = The analyte was not detected at the reporting limit indicated.
- 2. **Bolded** values exceed the cleanup levels.
- 3. S = shallow well; I = intermediate well.
- 4. Current cleanup levels obtained from Table 2 of the Cleanup Action Plan and are based on each individual SWMU or AOC.

<u>Abbreviations</u>

 μ g/L = micrograms per liter

AOC = area of concern

CPOC = conditional point of compliance

NA = not analyzed

TABLE D-6: AOC-004 HISTORICAL CONCENTRATIONS OF CONSTITUENTS OF CONCERN¹

Boeing Renton Facility, Renton, Washington

						Wel	l ID²									
	Current					Sourc	e Area									
	Cleanup		GW250S													
Analyte	Level ³	8/17/2017	3/6/2018	8/15/2018	3/5/2019	8/14/2019	3/9/2020	8/12/2020	2/16/2021	8/12/2021	2/22/2022					
Metals (mg/L)																
Lead	0.001	0.00026	0.000941	0.00107	0.00154	0.000714	0.00119	0.000611	0.000564	0.000663	0.000588					

Notes

- 1. **Bolded** values exceed the cleanup levels.
- 2. S = shallow well.
- 3. Current cleanup levels obtained from Table 2 of the Cleanup Action Plan and are based on each individual SWMU or AOC.

Abbreviations

mg/L = milligrams per liter

AOC = area of concern

CPOC = conditional point of compliance

TABLE D-7: AOC-060 HISTORICAL CONCENTRATIONS OF CONSTITUENTS OF CONCERN^{1, 2}

Boeing Renton Facility, Renton, Washington

									Wel	l ID³							
	Current				Source	e Area							Downgradien	t Plume Area	a		
	Cleanup				GW	009S							GW)12S			
Analyte	Levels ⁴	8/14/2018	3/5/2019	8/14/2019	3/10/2020	8/11/2020	2/17/2021	8/11/2021	2/22/2022	8/14/2018	3/5/2019	8/14/2019	3/10/2020	8/11/2020	2/17/2021	8/11/2021	2/22/2022
Volatile Organic Compoun	ds (µg/L)																
cis -1,2-Dichloroethene	0.08	0.126	0.107	0.127	0.093	0.124	0.139	0.368	0.15	1.29	1.23	0.798	0.482	0.508	1.260	2.210	0.693
Trichloroethene	0.02	0.0238	0.0239	0.020 U	0.0242	0.0324	0.0294	0.0316	0.0284	0.656	0.0546	0.0471	0.0505	0.0518	0.0454	0.0908	0.0506
Vinyl Chloride	0.26	0.318	0.285	0.300	0.183	0.219	0.300	0.160	0.434	0.605	1.35	0.893	0.603	0.387	0.180	0.795	1.57

	Current									l ID³ nt Plume Area	1						
	Cleanup				GW)14S							GW1	147S			
Analyte	Levels ⁴	8/14/2018	3/5/2019	8/14/2019	3/10/2020	8/11/2020	2/17/2021	8/11/2021	2/22/2022	8/14/2018	3/5/2019	8/14/2019	3/10/2020	8/11/2020	2/17/2021	8/11/2021	2/22/2022
Volatile Organic Compoun	ds (µg/L)																
cis -1,2-Dichloroethene	0.08	0.122	0.119	0.143	0.151	0.0932	0.130	0.147	0.133	4.63	0.955	4.11	0.287	0.931	0.180	0.180	0.679
Trichloroethene	0.02	0.0273	0.0254	0.020 U	0.0419	0.020 U	0.035	0.0227	0.020 U	4.23	0.475	1.46	1.20	3.37	0.498	0.498	0.425
Vinyl Chloride	0.26	0.232 J	0.214	0.365	0.195	0.190	0.207	0.367	0.276	1.07 J	0.0514	0.215	0.020 U	0.0643	0.020 U	0.020 U	0.0623

	Current									l ID³ C Area							
	Cleanup				GW ⁻	150S							GW2	253I			
Analyte	Levels ⁴	8/14/2018	3/5/2019	8/14/2019	3/10/2020	8/11/2020	2/17/2021	8/11/2021	2/22/2022	8/14/2018	3/5/2019	8/14/2019	3/10/2020	8/11/2020	2/17/2021	8/11/2021	2/22/2022
Volatile Organic Compoun	ds (µg/L)																
cis -1,2-Dichloroethene	0.08	0.0506	0.0737	0.0824	0.0525	0.0935	0.0393	0.0991	0.0547	0.0796	0.127	0.0917	0.0915	0.0879	0.140	0.106	0.0846
Trichloroethene	0.02	0.0305	0.020 U	0.0228	0.02 U	0.0291	0.020 U	0.020 U	0.020 U	0.0204	0.0221	0.020 U	0.0212	0.0211	0.0272	0.0202	0.020 U
Vinyl Chloride	0.26	0.0203	0.103	0.020 U	0.0541	0.0619	0.0455	0.122	0.0969	0.113	0.143	0.131	0.184	0.100	0.243	0.146	0.177

Notes:

- 1. Data qualifiers are as follows:
- U = The analyte was not detected at the reporting limit indicated.
- J = The value is an estimate.
- 2. **Bolded** values exceed the cleanup levels.
- 3. S = shallow well; I = intermediate well.
- 4. Current cleanup levels obtained from Table 2 of the Cleanup Action Plan and are based on each individual SWMU or AOC.

Abbreviations:

μg/L = micrograms per liter

AOC = area of concern

CPOC = conditional point of compliance

TABLE D-8: AOC-090 HISTORICAL CONCENTRATIONS OF CONSTITUENTS OF CONCERN^{1, 2}

Boeing Renton Facility, Renton, Washington

									Wel	I ID ³							
	Current	Source Area							Downgradient Plume Area								
	Cleanup				GW1	89S ⁵							GW ²	176S			
Analyte	Levels ⁴	8/13/2018	3/5/2019	8/12/2019	3/11/2020	8/12/2020	2/17/2021	8/12/2021	2/23/2022	8/13/2018	3/5/2019	8/12/2019	3/11/2020	8/12/2020	2/17/2021	8/17/2021	2/23/2022
Volatile Organic Compounds (μg/L)																
1,1,2,2-Tetrachloroethane	0.17	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.24 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM	NM
1,1,2-Trichloroethane	0.2	2.00 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM
1,1-Dichloroethene	0.057	0.020 U	0.020 U	0.020 U	0.020 U	0.0529	0.020 U	0.020 U	0.0200 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM	NM
Acetone	300	70	5.00 U	5.0 U	5.0 U	5.00 U	10.6 J	5.00 U	5.00 U	5.00 U	5.00 U	5.0 U	5.0 U	NM	NM	NM	NM
Benzene	0.8	2.42	0.20	0.49	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM
Carbon Tetrachloride	0.23	2.00 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM
Chloroform	2	2.23	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM
cis-1,2-Dichloroethene	2.4	22.3	0.92	6.87	0.20 U	1.93	0.47	3.15	0.20 U	0.27	0.25	0.27	0.25	NM	NM	NM	NM
Methylene Chloride	2	10.9 UJ	1.00 U	1.0 U	1.0 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	NM	NM	NM	NM
Tetrachloroethene	0.05	0.20 U	0.028	0.020 U	0.0263	0.020 U	0.0283	0.020 U	0.0200 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM	NM
Toluene	75	21.7	4.96	3.11	0.20 U	1.05	5.21	2.42	0.47 J	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM
trans-1,2-Dichloroethene	53.9	2.00 U	0.20 U	0.39	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM
Trichloroethene	0.08	2.38	0.156	0.414	0.0745	0.324	0.143	0.386	0.0505 UJ	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM	NM
Vinyl Chloride	0.13	2.09 J	0.50	1.20	0.020 U	0.369	0.0405	0.575	0.0867 J	0.230	0.294	0.301	0.207	0.232	0.138	0.431	0.311 J
Total Petroleum Hydrocarbon	s (µg/L)																
TPH-G (C7-C12)	800	9,440	1,070	943	189	699	507	504	370 J	100 U	100 U	100 U	100 U	NM	NM	NM	NM
TPH-D (C12-C24)	500	4,120	362	432	100 U	150	2160	390	192 J	100 U	100 UJ	100 U	100 U	NM	NM	NM	NM
TPH-O (C24-C40)	500	2,000 U	522	853	200 U	379	3990	689	263 J	200 U	200 UJ	200 U	200 U	NM	NM	NM	NM

	Current												Well		,											
	Cleanup				GW	178S				GW207S									GW208S							
Analyte	Levels ⁴	8/13/2018	3/5/2019	8/12/2019	3/11/2020	8/12/2020	2/17/2021	8/12/2021	2/23/2022	8/13/2018	3/5/2019	8/12/2019	3/11/2020	8/12/2020	2/17/2021	8/12/2021	2/23/2022	8/13/2018	3/5/2019	8/12/2019	3/11/2020	8/12/2020	2/17/2021	8/12/2021	2/23/2022	
Volatile Organic Compounds (µg/L)																										
1,1,2,2-Tetrachloroethane	0.17	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM	NM	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM	NM	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM	NM	
1,1,2-Trichloroethane	0.2	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	
1,1-Dichloroethene	0.057	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM	NM	0.023	0.020 U	0.020 U	0.020 U	NM	NM	NM	NM	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM	NM	
Acetone	300	5.00 U	5.54	5.0 U	5.0 U	NM	NM	NM	NM	5.00 U	5.00 U	5.0 U	5.0 U	NM	NM	NM	NM	5.00 U	5.00 U	5.0 U	5.0 U	NM	NM	NM	NM	
Benzene	0.8	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	
Carbon Tetrachloride	0.23	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	
Chloroform	2	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	
cis-1,2-Dichloroethene	2.4	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	0.20 U	0.21	0.20 U	0.20 U	NM	NM	NM	NM	
Methylene Chloride	2	1.00 U	1.00 U	1.00 U	1.00 U	NM	NM	NM	NM	1.00 U	1.00 U	1.00 U	1.00 U	NM	NM	NM	NM	1.00 U	1.00 U	1.0 U	1.0 U	NM	NM	NM	NM	
Tetrachloroethene	0.05	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM	NM	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM	NM	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM	NM	
Toluene	75	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	
trans-1,2-Dichloroethene	53.9	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	NM	
Trichloroethene	0.08	0.0213	0.0213	0.020 U	0.021	NM	NM	NM	NM	0.0388	0.020 U	0.0305	0.020 U	NM	NM	NM	NM	0.0234	0.020 U	0.0293	0.020 U	NM	NM	NM	NM	
Vinyl Chloride	0.13	0.378	0.392	0.3840	0.1840	0.141	0.224	0.182	0.361 J	0.311 J	0.0692	0.020 U	0.020 U	0.377	0.066	0.232	0.356 J	0.097	0.437	0.245	0.419	0.343	0.349	0.313	0.404 J	
Total Petroleum Hydrocarbons	(μg/L)																									
TPH-G (C7-C12)	800	100 U	100 U	100 U	100 U	NM	NM	NM	NM	100 U	100 U	100 U	100 U	NM	NM	NM	NM	100 U	100 U	100 U	100 U	NM	NM	NM	NM	
TPH-D (C12-C24)	500	100 U	100 UJ	100 U	100 U	NM	NM	NM	NM	100 U	100 UJ	100 U	100 U	NM	NM	NM	NM	100 U	100 UJ	100 U	100 U	NM	NM	NM	NM	
TPH-O (C24-C40)	500	200 U	200 UJ	200 U	200 U	NM	NM	NM	NM	200 U	200 UJ	200 U	200 U	NM	NM	NM	NM	200 U	200 UJ	200 U	200 U	NM	NM	NM	NM	

Notes:

1. Data qualifiers are as follows:

U = The analyte was not detected at the reporting limit indicated.

J = The value is an estimate.

UJ = The analyte was not detected at the estimated reporting limit indicated.

2. **Bolded** values exceed the cleanup levels.

3. S = shallow well.

4. Current cleanup levels obtained from Table 2 of the Cleanup Action Plan and are based on each individual SWMU or AOC.

5. GW189S is the replacement well for GW168S.

Abbreviations:

μg/L = micrograms per liter

AOC = area of concern

CPOC = conditional point of compliance

NM = Analyte not measured

SWMU = solid waste management unit

TPH-D = total petroleum hydrocarbons as diesel

TPH-G = total petroleum hydrocarbons as gasoline

TPH-O = total petroleum hydrocarbons as oil

TABLE D-9: APRON A HISTORICAL CONCENTRATIONS OF CONSTITUENTS OF CONCERN¹

Boeing Renton Facility, Renton, Washington

	Well ID ²													
	GW264S													
Analyte	11/13/2018	5/7/2019	11/11/2019	5/12/2020	8/10/2020	2/15/2021	8/10/2021	2/21/2022						
Volatile Organic Compounds (µg/L)														
cis-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	0.20 U	0.52	0.20 U	0.20 U	0.200 U						
Vinyl Chloride	0.55	1.39	0.38	1.48	0.20 U	1.49	1.37	2.54						

Notes:

- 1. Data qualifiers are as follows:
 - U = The analyte was not detected at the reporting limit indicated.
- 2. S = shallow well

Abbreviations:

 μ g/L = micrograms per liter

wood.

Appendix ESummary of Remedial Actions

APPENDIX E

Summary of Remedial Actions at the Boeing Renton Facility November 2021 – April 2022

Boeing Renton Site Renton, Washington



Prepared for:
The Boeing Company
EHS Remediation

Prepared by: CALIBRE Systems, Inc. Project No. T0014538

May 25, 2022

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Acronyms

AOC	Area of Concern
Building 4-78/79	Building 4-78/4-79 SWMU/AOC Group
CALIBRE	CALIBRE Systems, Inc.
CMP	Compliance Monitoring Plan
EDR	Engineering Design Report
ERD	Enhanced Reductive Dechlorination
GAC	granular activated carbon
mg/L	milligrams per liter

mg/L milligrams per liter
PCE Tetrachloroethene
PID Photoionization detector
SVE Soil Vapor Extraction

SWMU Solid Waste Management Unit

TCE Trichloroethene

Tech Memo Technical Memorandum VOCs Volatile Organic Compounds

VPC Vapor Phase Carbon

1.0 Introduction

CALIBRE Systems, Inc. (CALIBRE) prepared this Technical Memorandum (Tech Memo) for the Boeing Company to summarize remedial actions implemented at the Boeing Renton Facility between November 1, 2021 and April 30, 2022. The ongoing remedial actions include:

- 1. Operation of a soil vapor extraction (SVE) system located at Solid Waste Management Unit (SWMU) designated as SWMU-172/174;
- Biological treatment to promote Enhanced Reductive Dechlorination (ERD) of volatile organic compounds (VOCs) in groundwater underway at several areas of concern (AOCs) located throughout the Renton Facility (including SWMU-172/174, Building 4-78/79, AOC-001/002, AOC-003, AOC-060, AOC-090, and Apron A), and;
- 3. Anaerobic biodegradation of benzene by nitrate/sulfate injections at the Building 4-78/79.

CALIBRE completed the work described in this Tech Memo to support remedial activities described in the Engineering Design Report (EDR), (AMEC, 2014) as supplemented by a Tech Memo describing the remedial approach for *in situ* biodegradation treatment of benzene in groundwater near the Building 4-78/79 (CALIBRE 2017).

1.1 Facility Location and Background

The Boeing Renton Facility is used for assembly of 737 airplanes and is located at the southern end of Lake Washington in Renton, Washington. The location of the Renton Facility and the location of SWMU-172/174 within the Facility is shown on Figure 1-1. The locations of the other AOCs and SWMUs where groundwater treatment is ongoing are also presented in Figure 1-1.

1.2 Objectives and Organization

The objective for this Tech Memo is to summarize work completed in accordance with the EDR during the reporting period stated above. This includes operation and monitoring activities for the SVE system located at SWMU-172/174, a summary of the ongoing biological treatment in multiple areas, and related groundwater monitoring associated with remedial actions in the following areas:

```
SWMU-172/174
Building 4-78/4-79 SWMU/AOC Group (Building 4-78/79)
AOC-001/002
AOC-003
AOC-060
AOC-090
Apron A
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This Tech Memo is organized as follows:

Section 1 - Introduction and Background

Section 2 – SVE System Operation and Monitoring

Section 3 – Ongoing Groundwater Treatment

Section 4 – Conclusions and Recommendations

Section 5 – References

Attachment A – Field Data Sheets

Attachment B - Laboratory Data Package

2.0 SVE Systems Operation and Monitoring

SVE systems were installed in the Building 4-78/79 and SWMU-172/174 areas and began operation in April 2015. During the last quarter of 2017 photoionization detector (PID) results from both systems had shown low-level VOC concentrations removed at asymptotically low levels. Rebound tests were conducted in early 2018 followed by collection of soil confirmation samples from both areas in June 2018. Ecology approved the recommended shutdown of the Building 4-78/79 SVE system on November 1, 2018 after review and evaluation of the soil confirmation results for that area (CALIBRE 2018a).

During the prior May 2021 to October 2021 operating period, PID monitoring results from the SWMU-172/174 SVE system had shown VOC concentrations removed at asymptotically low levels. Given these recent performance data, a rebound test for the system was started on December 20, 2021 and continued through January 24, 2022. The following sections summarize the SVE operation and rebound monitoring results for the SVE system at SWMU-172/174.

2.1 SWMU-172/174 SVE System

The SWMU-172/174 SVE system consists of three vapor extraction wells and a SVE equipment trailer as shown in Figure 2-1. The SVE system is equipped with two vapor-phase granular activated carbon (GAC) vessels, each filled with 1,800 pounds of carbon. The GAC vapor treatment system is configured to run in a lead-lag configuration with vapor from the outlet of the lead vessel passing through the lag vessel. The system historically included two smaller vessels each containing 200 pounds of zeolite impregnated with permanganate for vinyl chloride treatment. Permanganate for vapor treatment was originally included in the design to treat potential vinyl chloride that, if present, would not be effectively captured in the GAC. Monitoring data has demonstrated that vinyl chloride is not present in the inlet air stream and permanganate treatment is not required or providing any benefit. The lag permanganate drum became plugged during the fourth quarter 2019 and was taken offline. The lead permanganate drum is still operating within the treatment system and may be discontinued in the future.

The SWMU-172/174 SVE system operated without issue during this monitoring period. As stated above, the system was intentionally shut down between December 20, 2021 and January 24, 2022 to monitor for system rebound. The system has continued to operate since restart in January 2022. Routine maintenance including oil changes, drive-belt tensioning and inspection, inspection of the air filter, and inspection of the moisture separator was completed per the Operations Manual (CALIBRE, 2014). System monitoring includes regular monitoring of total organic vapor concentrations with a calibrated PID. Table 2-1

summarizes the TO-15 detections for the SWMU-172/174 SVE system for prior TO-15 sampling events¹ that have been implemented since system startup. Table 2-2 shows the PID readings for the wells in the SWMU-172/174 SVE system and Table 2-3 shows an operational summary for the system. The operational logs are included in Attachment A.

2.1.1 Mass Removal Estimate

Between April 17, 2015 and April 27, 2022 the SWMU-172/174 SVE system has recovered an estimated 24.6 pounds of VOCs (primarily PCE), as shown in Table 2-3. Approximately 0.8 pounds of VOCs were removed during the current reporting period (November 2021 to April 2022) based on the PID measurements collected while the system was operating. The PID results from February 17, 2022 and April 27, 2022 were unusually high at that time and, if used, would overestimate VOC mass removal. Therefore, the prior week's PID measurements were used to estimate mass removal. While no noticeable paint odors were observed during these site visits, it is likely the PID was picking up other vapors from the paint shop in the 5-09 building; the area around the 5-09 building can, at times, have a noticeable paint odor. If paint odors are apparent in the area in the future then field screening at the system will be delayed. The cumulative VOC mass removal for the SWMU-172/174 SVE system is shown in Figure 2-2. The change in SVE system influent concentrations since the time of system startup is presented in Figure 2-3.

2.2 SVE Rebound Test Summary

This section presents a summary of the rebound test procedures and data collected for the SWMU-172/174 SVE system. The SVE system was monitored with a calibrated PID and sampled for VOCs via TO-15 analysis for baseline data on December 2, 2021 prior to the planned shutdown period. The system was shutdown December 20, 2022 and remained off for a period of 35 days. On January 24, 2022, following the 35-day rest period, the SVE system was restarted, and vapor concentrations were monitored at the same baseline locations with a calibrated PID and sampled for TO-15 analysis to determine if vapor concentrations had rebounded. Based on prior rebound tests for the system, some level of rebounding was expected with the shutdown and restart of the SVE system. The key operational question to be evaluated with the rebound period was whether sufficient vapor accumulated to make further mass recovery via SVE effective. After the 35-day rest period, the system was started and monitored for approximately 2 hours prior to sample collection. Additional samples were collected after approximately 24 hours of operation and again on day sixteen of operation (approximately 380 hours later) after the system restart.

The vapor monitoring points tested in the SWMU-172/174 SVE area included SVE-2, SVE-3 and the system inlet (refer to Figure 2-1). Selected samples were also collected for laboratory TO-15 analysis for VOCs (gas chromatography mass spectrometry analysis) from the system inlet and SVE-3, the laboratory data sheets are presented in Attachment B.

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¹ Multiple changes to SVE system operations have been implemented over the operating period where data are shown. Changes to extraction flow rates by SVE wells are used to optimize/maximize the VOC mass removal and the corresponding SVE influent concentration was initially highly dependent on the flow rate from selected wells.

2.2.1 TO-15 Laboratory Analysis of Vapor Samples

On December 2, 2021 well SVE-3 and the system influent were sampled for TO-15 analysis and paired PID measurements to provide baseline data for the planned rebound testing. Subsequent samples were collected from the same locations upon restart on January 24, 2022, then again on January 25, 2022, and February 9, 2022, and included PID measurements from these locations.

The CVOCs and other VOCs detected in the TO-15 samples collected during the SVE operations and rebound periods for the SWMU-172/174 area SVE system are shown in Table 2-1. Table 2-4 summarizes the rebound test data for the SWMU-172/174 area SVE system and provides a comparison of historical PCE concentrations at system start in 2015 and present day PCE concentrations at the site. As described in the rebound procedures above, measurements were taken following system restart to determine if and how quickly the initial rebound concentrations declined during operation.

At the beginning of the rebound test in December 2021, concentrations at SVE-3 were down 99 percent from SVE startup levels measured in April 2015. Concentrations remained at levels 98.5 percent below SVE startup levels after the 35-day rest period and 98.4 percent after one day of operation. After 16 days of operation, SVE-3 was back at pre-rebound asymptotic levels (see Table 2-4). The system influent concentrations showed a similar reduction in PCE concentrations and was back at asymptotic levels after 16-days of operation following the rebound test.

Table 2-5 presents a mass removal estimate comparison from the startup of SVE operation along with the rebound monitoring period. The baseline condition (asymptote prior to the start of the rebound period) for the SWMU-172/174 area SVE system indicated an influent concentration of approximately 39 parts per billion by volume (ppbv) PCE (from TO-15 results) and a mass removal rate of approximately 0.003 lbs/day. Following the 35-day rest period, the influent concentration increased marginally to approximately 58 ppbv PCE with a mass removal rate of 0.004 lbs/day. After 16 days of operation, the mass removal rate had reduced to the baseline asymptotic levels, which is approximately 4% of the peak mass removal rate when the system was started in 2015. This meets the performance goal for system shutdown (after rebound testing) established in the EDR (AMEC, 2014).

2.3 Data Evaluation

A key question used to evaluate continued operation after the rebound test is:

1. Is the increased mass removal rate sustained for any significant time period after a rest/rebound period and is any increased mass removed sufficient to justify prolonged SVE system operation?

Tables 2-4 and 2-5 presents TO-15 results from samples collected before and after the rebound test. These data indicate that the mass removal rate increased marginally over the first 24 hours after system restart from 0.004 lbs/day to 0.005 lbs/day. However, after 16 days of operation the mass removal rate was diminished to asymptotic levels and do not provide justification for continued SVE operation.

A second key question used to evaluate continued operation after the rebound test is:

2. Are there data to indicate that continued SVE system operation is having a measurable improvement on the groundwater system, over and beyond what is being accomplished with the groundwater ERD system?

Data collected during regular SVE operation indicate PCE is the primary compound detected and recovered with the SWMU-172/174 SVE system. The rebound data show very low remaining concentrations of the compound in soil vapor. Concentrations of this compound in groundwater have declined with the ERD treatment; PCE concentrations have been significantly reduced or eliminated from virtually all wells at this SWMU-172/174 area.

At the SWMU-172/174 area, the two source-area wells are both under 2.0 μ g/L PCE (one well at 1.84 μ g/L and one at <0.02 μ g/L) and all conditional point of compliance wells are at or below 0.02 μ g/L for PCE. These current groundwater monitoring data indicate that continued SVE system operation in the SWMU-172/174 area will not have a measurable impact on the groundwater remediation.

These combined performance monitoring data from SVE operations (asymptotically low mass removal) and ERD treatment indicate that SVE operations have been effective for source removal and support the recommendations of ending SVE operations.

3.0 Ongoing Groundwater Treatment

Groundwater treatment is currently being implemented at the following AOCs/SWMUs at the Renton Facility.

- SWMU-172/174
- Building 4-78/4-79 SWMU/AOC Group,
- AOC-003,
- AOC-060,
- AOC-090, and
- Apron A.

The primary remedy being implemented is ERD of chlorinated solvents in targeted areas. The ERD treatment involves substrate injection using sucrose/fructose as a carbon source to stimulate biological degradation of the chlorinated solvents and nitrate/sulfate to anaerobically degrade benzene. Continued treatment is evaluated on a semi-annual basis following review of groundwater sampling results. Site-wide groundwater sampling was conducted as part of the biannual monitoring program during this reporting period and the results are discussed in the main text of the summary report. Table 3-1 presents a summary of those groundwater monitoring results, by area, related to groundwater treatment/ERD implementation.

During the current reporting period, no ERD injection activities were not conducted in AOC-060, AOC-090 and Apron A. Bioremediation injection activities are planned for these areas in the 2nd half of 2022.

Building 4-78/79

Beginning in late 2017, anaerobic biodegradation of benzene using nitrate and sulfate injections was implemented for a small area in the vicinity of Building 4-78/79. Boeing has continued additional nitrate/sulfate injections in the area; the most recent injection was completed in November 2021 (tenth event). Boeing planned a removal action of petroleum hydrocarbon-contaminated soil at the Building 4-78/79 area in a work plan "Soil Excavation at Building 4-78/79 Area, Boeing Renton" submitted to the Washington Department of Ecology in January 2021 and approved on February 2, 2021 (CALIBRE 2021a). The removal action was completed in September 2021, in accordance with that work plan and summarized in a Tech Memo submitted to Ecology in October 2021 (CALIBRE 2021b). The soil excavation work required the decommissioning of wells previously used for benzene treatment in this area and two new horizontal injection wells were installed within the excavation footprint following completion of the removal action. The November 2021 injection event utilized the two new horizontal injection wells and upgradient well B78-11 (see Figure 11 in main text of this report). Injections were completed with a target concentration of 1,600 mg/L for nitrate and 800 mg/L for sulfate per well (similar to prior events) to provide additional nitrate and sulfate to the impacted area. The injection volumes and mass of nitrate/sulfate are included in Table 3-2.

Performance monitoring data were collected in this area and other areas throughout the site in February 2022 to evaluate substrate availability and need for continued injection and those results are summarized in Table 3-3. The data for the Building 4-78/79 area show reduced nitrate/sulfate concentrations in well GW-210S which is downgradient of the benzene treatment horizontal injection wells. Benzene in this well was 0.56 μ g/L which is below the cleanup level of 0.80 μ g/L (see Table 3-3). While benzene is reduced in this area it is recommended that additional nitrate and sulfate be injected upgradient of this well (in the horizontal injection wells) to continue benzene treatment.

ERD injection well B78-16, which is upgradient of the VOC treatment area, showed TOC concentrations nearing background levels (at 13.4 mg/L with background typically <10 mg/L). However, this well showed the presence of TCE daughter products cis-1,2-DCE and VC indicating continued degradation of TCE with the VC present above the AOC CULs. Additional ERD treatment is recommended in this area, including bioaugmentation, to increase TOC concentrations and continue TCE treatment. The substrate injection wells to include B78-9, B78-10, B78-11, B78-12, B78-14 and B78-16 (see Figure 11 in the main text of this report) This work is planned for the 2nd half of 2022.

SWMU-172/174

Injection well B172-08 located upgradient of the VOC treatment area and near monitoring well GW-152S, showed PCE at 1.62 μ g/L and cis-1,2-DCE at 0.3 μ g/L (see Figure 4 in main text of this report). The other

injection well, B172-01, showed CVOC concentrations at non-detect levels and TOC is reduced in both injection wells. Additional ERD treatment is recommended for selected wells in the area of B172-08 and GW-152S to increase TOC concentrations and continue PCE degradation, this work is planned for the 2nd half of 2022.

AOC-003

Injection well B003-01, which is upgradient of the VOC treatment area (see Figure 21 in the main text of this report), showed VC at <0.2 μ g/L and TOC concentrations near background. While VC is non-detect at this well, other nearby monitoring wells sampled during the bi-annual monitoring event in the area show estimated VC concentrations at 0.60 μ g/L slightly above the VC CUL of 0.24 μ g/L. Therefore, one additional injection is recommended for this area. All four injection wells in the area should be used (B003-01, B003-02, B003-03 and B003-04) pending access around aircraft in the immediate areas.

4.0 Conclusions and Recommendations

4.1 Recommended Shutdown of SVE Operations

Asymptotic low levels of vapor concentrations were observed at the SWMU 172/174 operating SVE wells and system influent during the November 2021 to April 2022 operating period (see Figure 2-3). Rebound testing was completed during this monitoring period to evaluate whether SVE operations should be discontinued. The rebound results show marginal increases in PCE concentrations and estimated mass removal after a 35-day rest period; with mass removal increasing from 0.003 lbs/day prior to rebound start to 0.005 lbs/day after the rest period. The slight increase in PCE mass removal was diminished back to prior asymptote levels after 16 days of operation. SVE system shutdown is recommended as the system continues to show asymptotic low-level vapor concentrations following rebound testing.

Boeing seeks Ecology's concurrence to discontinue SVE system operations at SWMU 172/174. Boeing intends to continue implementing its bioremediation and monitored natural attenuation remedies for this area.

4.2 Recommendations for Continued Biological Treatment

Additional nitrate/sulfate injections were completed for benzene treatment at the two new horizontal injection wells located at the Building 4-78/79 area in November 2021. Performance monitoring data collected downgradient of this area in February 2022 show nitrate/sulfate concentrations have been consumed therefore additional substrate is recommended for this area (i.e., the benzene plume area at Building 4-78/79).

Based on evaluation of the biannual monitoring data and additional performance monitoring data (see Table 3-1 and 3-3), continued ERD treatment for VOCs in groundwater is planned in 2022 for the following areas:

- SWMU-172/174,
- Building 4-78/4-79 SWMU/AOC Group,
- AOC-003,
- AOC-060,
- AOC-090, and
- Apron A.

Upon completion of the Apron R (AOC-001/002) construction work estimated in 2023, the well monitoring network replacement is currently anticipated for late 2023. After the replacement wells are installed and sampled in 2024, Boeing will evaluate if continued ERD treatment is needed for VOCs in groundwater in AOC 001/002.

Groundwater monitoring will continue in accordance with the EDR and approved updates to the Compliance Monitoring Plan (CMP), with additional supplemental VOC and TOC sampling at selected wells to support remedial optimization recommendations.

5.0 References

AMEC 2014. Draft Engineering Design Report Boeing Renton Cleanup Action Plan Implementation. Prepared by AMEC Environment & Infrastructure, Inc. for The Boeing Company. July 2014.

CALIBRE 2014. Operations and Maintenance Plan for the Renton Cleanup Action Soil Vapor Extraction Systems. Prepared by CALIBRE Systems, Inc. for The Boeing Company, EHS Remediation. July 2014.

CALIBRE 2017. Bioremediation of Benzene in Groundwater; Building 4-78/79 Area, Boeing Renton Facility Rev. 1. Prepared by CALIBRE Systems, Inc. for The Boeing Company, EHS Remediation. September 2017.

CALIBRE 2018a. Recommendation to shut down SVE system at Building 4-78/4-79 SWMU/AOC Group; Boeing Renton Site. Prepared by CALIBRE Systems, Inc. for The Boeing Company, EHS Remediation. October 2018.

CALIBRE 2018b. Plan for Evaluation of Soils around Probe PP13 at Building 4-78/4-79 SWMU/AOC Group; Boeing Renton Site. Prepared by CALIBRE Systems, Inc. for The Boeing Company, EHS Remediation. November 2018.

CALIBRE 2019. Plan for Evaluation of Soils around Probe PP13 at Building 4-78/79 SWMU/AOC Group; Boeing Renton Site, Prepared by CALIBRE Systems, Inc. for The Boeing Company, EHS Remediation. April 29.

CALIBRE 2021a. Soil Excavation at Building 4-78/79 Area, Boeing Renton. Prepared by CALIBRE Systems, Inc. for The Boeing Company, EHS Remediation. January 2021.

CALIBRE 2021b. Boeing Renton - Excavation of Fuel Contaminated Soil at Building 4-78/79 Area. Prepared by CALIBRE Systems, Inc. for The Boeing Company, EHS Remediation. October 2021.

Ecology 2015. Washington State Water Quality Standards: Human Health Criteria and Implementation Tools. Prepared by the Washington Department of Ecology. Publication no. 14-10-058. January 2015.

USACE 2002. Engineering and Design - Soil Vapor Extraction and Bioventing. Prepared by US Army Corps of Engineers. EM 1110-1-4001. June 2002.

Wood 2019. Quarterly report, third quarter 2019. RCRA Corrective Action Program Boeing Renton Facility. Prepared by Wood and CALIBRE Systems, Inc. for the Boeing Company, EHS Remediation. November 2019.

TABLES

Table 2-1 TO-15 Analytical Results - SWMU-172/174 SVE System Project History

SVE System miet																								
																								i
			-1- 4.3		Maria										2-Butanone		Este d	Daniel III annua		1,3,5-	1,2,4-	TPH ref. to	Total	Total
0-1-	DCE	TOF	cis-1,2-	trans-1,2-	Vinyl	444 764	4 4 5 6 4		Telescon	V. I	Chloreform	- 16-1	D		(Methyl Ethyl		Ethyl	Propylbenze		Trimethylben	Trimethylben	Gasoline	Total	Total
Date 4/17/2015	PCE 1,500	TCE 130	DCE 120	DCE ND	Chloride ND	1,1,1-TCA 13	1,1-DCA ND	Acetone ND	Toluene ND	m,p-Xylene ND	Chloroform ND	o-Xylene ND	Pentane ND	Hexane ND	Ketone) ND	Benzene ND	Benzene ND	ne ND	Cumene ND	zene ND	zene ND	(MW=100) ND	Chlorinated 1,763	VOCs 1,763
10/13/2015	400	31	13	ND ND	ND ND	3.3	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	447	447
3/8/2016	82	5.4	3.1	ND ND	ND	ND	ND	ND	1.1	2.2	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND	ND ND	ND ND	91	94
6/30/2016	230	18	10	ND	ND	1.8	ND ND	11	ND	ND	2.4	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND ND	ND	260	273
9/12/2016	230	16	8.3	ND	ND	1.9	ND	ND	ND	ND ND	1.2	ND ND	ND	ND ND	ND ND	ND	ND	ND	ND	ND	ND ND	ND	256	257
12/14/2016	100	6.2	3.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	110	110
5/30/2017 - 30 min	520	220	17	ND	ND	13	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	773	773
5/30/2017 - 100 min	530	200	17	ND	ND	14	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	761	761
5/30/2017 - 225 min	510	130	16	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	668	668
8/16/2017	180	16	7.8	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	206	206
12/8/2017 - Rebound																								
Start	99	7.6	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	110	110
5/22/2018	430	43	13	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	498	498
6/7/2018	160	13	5.4	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	180	180
6/20/2018	170	14	5.7	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	192	192
8/30/2018	110	8.6	3.7	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	122	122
2/13/2019	32	2.2	1.6	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36	36
6/20/2019	74	6.2	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	84	84
5/19/20 - Rebound Start	150	17	5.7	ND	ND	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	177	177
5/21/20 - Rebound 48																								i
Hrs	120	230	5	ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	358	358
9/23/2020	110	11	3.7	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	127	127
1/5/2021 (5-09-Influent																								1
A)	83	9.8	3.4	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	98	98
1/5/2021 (5-09-Influent												l l												
1/7/2021 ((5-09-	1.6	1.5	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.2	5.2
Influent C)	75	6.0	2.3	ND	ND	1.8	ND	92	73	23	ND	8.7	ND	22	14	47	12	4.9	2.4	4.5	18	2200	85	2,607
12/2/2021		3.3	1.7	ND ND	ND ND	ND	ND ND	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND ND	44	44
1/24/2022	58	4.9	1.6	ND	ND	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	66	66
1/25/2022	71	5.1	2.2	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	80	80
2/9/2022		2.7	1	ND	ND	ND	ND ND	9.6	ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	42	51
-/-/																								
SVE-1																								
																								i.
															2-Butanone					1,3,5-	1,2,4-	TPH ref. to		i.
			cis-1,2-	trans-1,2-	Vinyl										(Methyl Ethyl		Ethyl	Propylbenze		Trimethylben	Trimethylben	Gasoline	Total	Total
Date	PCE	TCE	DCE	DCE	Chloride	1,1,1-TCA	1,1-DCA	Acetone	Toluene	m,p-Xylene	Chloroform	o-Xylene	Pentane	Hexane	Ketone)	Benzene	Benzene	ne	Cumene	zene	zene	(MW=100)	Chlorinated	VOCs
6/20/2019	10	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	11
SVE-2	1	1	ı	1	1	1	1		ı		1	1					1				1		1	
															2.0					4.2.5	424	TOU f t		i.
			cis-1,2-	trans-1,2-	Vinual					l					2-Butanone (Methyl Ethyl		Ethyl	Dramulhanna		1,3,5- Trimethylben	1,2,4- Trimethylben	TPH ref. to Gasoline	Total	Total
Data	PCE	TCE	DCE	DCE	Vinyl Chloride	1 1 1 TCA	1 1 DC4	Acetone	Toluene	m n Vulore	Chloroform	o Vulono	Pentane	Hovano	. , ,	Ponzono		Propylbenze	Cumono			(MW=100)	Chlorinated	VOCs
Date 8/30/2018	180	TCE 14	6.1	NA NA	ND	1,1,1-TCA NA	1,1-DCA NA	NA	NA	m,p-Xylene NA	NA	o-Xylene NA	NA	Hexane NA	Ketone) ND	Benzene ND	Benzene ND	ne ND	Cumene	zene ND	zene ND	ND ND	200	200
2/13/2019	48	3.3	2.8	NA NA	ND ND	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	54	54
6/20/2019	100	9.6	5.1	ND	ND	1.4	ND	ND	1.4	ND	ND ND	ND ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND ND	ND	116	118
0/20/2015	100	5.0	3.1	IND	140	1.7	ND	ND	4.7	140	140	IVD	ND	140	ND	NU	140	IND	IND	IND	140	140	110	110
5/19/20 - Rebound Start	28	3.8	1.4	ND	ND	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35	35
5/21/20 - Rebound 48										l					1			1						
Hrs	20	3.4	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26	26

Table 2-1 TO-15 Analytical Results - SWMU-172/174 SVE System Project History

SVE-3

															2-Butanone					1,3,5-	1,2,4-	TPH ref. to		
			cis-1,2-	trans-1,2-	Vinyl										(Methyl Ethyl		Ethyl	Propylbenze		Trimethylben		Gasoline	Total	Total
Date	PCE	TCE	DCE	DCE	Chloride	- / /			Toluene	m,p-Xylene		o-Xylene	Pentane	Hexane	Ketone)	Benzene	Benzene	ne	Cumene	zene	zene	(MW=100)	Chlorinated	VOCs
5/30/2017 - 30 min	540	51	18	ND	ND	14	2.6	ND	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	626	628
5/30/2017 - 100 min	200	16	6.5	ND	ND	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	228	228
8/16/2017	350	30	15	ND	ND	3.5	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	399	400
12/8/2017 - Rebound																								
Start	170	13	5.8	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	191	191
1/19/2018 - 35-Day 60																								
Minute Sample	310	30	13	ND	ND	6.9	1.3	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	361	362
1/19/2018 - 35-Day 180																								
Minute Sample	310	28	12	ND	ND	7.9	1.1	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	359	360
3/6/2018 - 80-Day 60																								
Min Sample	440	41	15	ND	ND	14	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	512	512
3/6/2018 - 80-Day 180																								
Min Sample	410	33	13	ND	ND	13	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	471	471
5/22/2018	790	66	22	ND	ND	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	900	900
6/7/2018	280	23	9.6	ND	ND	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	316	316
6/20/2018	310	24	11	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	348	348
5/19/20 - Rebound Start	350	49	14	ND	ND	10	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	425	425
5/21/20 - Rebound 48																								
Hrs	290	240	9.8	ND	ND	5.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	546	546
9/23/2020	410	37	11	ND	ND	6.0	ND	ND	3.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	464	468
12/2/2021	70	5.7	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	79	79
1/24/2022	110	8.9	2.8	ND	ND	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	125	125
1/25/2022	120	7.7	3.2	ND	ND	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	133	133
2/9/2022	68	4.5	1.8	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	74	76

VPC Outlet

VPC Outlet																								
				trans-1,2-											2-Butanone (Methyl Ethyl			Propylbenze		1,3,5- Trimethylben	1,2,4- Trimethylben	TPH ref. to Gasoline	Total	Total
Date	PCE	TCE	DCE	DCE	Chloride	1,1,1-TCA	1,1-DCA	Acetone	Toluene	m,p-Xylene	Chloroform	o-Xylene	Pentane	Hexane	Ketone)	Benzene	Benzene	ne	Cumene	zene	zene	(MW=100)	Chlorinated	VOCs
4/17/2015	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.1	5.1
10/13/2015	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11
3/8/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/30/2016	ND	ND	ND	ND	ND	ND	ND	ND	15	1.6	ND	1.2	6.2	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	25
9/12/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/14/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/16/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

All results are in parts per billion by volume (ppbv).

ND = non-detect

NA = not analyzed DCE = Dichloroethene

DCE = Dichloroethene PCE = tetrachloroethene

TCE = trichloroethene

Total Chlorinated = the sum of PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1,1-TCA, and 1,1-DCA.

Table 2-2 PID Monitoring - SWMU-172/174 SVE System

	Days in Operation							
Date	Since Startup 1	SVE-01	SVE-02	SVE-03	VPC Inlet	VPC Mid	VPC Outlet	Notes
10/29/2021	2,157	Vent	27	304	236		0	2 gallons condensate
11/17/2021	2,176	Vent						Stopped by system to check oil and drain condensate, 7 gallons removed.
11/23/2021	2,182	Vent	81	253	247			Picked up new cal gas can from national safety, 2 gal condensate
12/2/2021	2,191	Vent	42	124	80		0	Collected TO-15 samples from influent and SVE-3.
12/13/2021	2,202	Vent	2	108	77		0	10 gal condensate removed
12/20/2021	2,209	Vent						Shut system down for Boeing Christmas break and rebound rest period.
								Startup system after rest period and take initial
1/24/2022	2,244	Vent	49	194	147		0	readings
1/24/2022	2,244	Vent	30	154	129		0	Readings at 1 hr
								Readings at 2 hr, collect TO-15 samples from
1/24/2022	2,244	Vent	52	181	127		0	SVE-3 and influent.
1/25/2022	2,245	Vent	46	229	150		0	TO-15 samples at ~24 hrs.
2/9/2022	2,260	Vent	52	189	153			TO-15 samples at 15 days
2/17/2022	2,268	Vent	594	1,105	1,004	129	0	1 gal condensate
3/4/2022	2,283	Vent	13	326	258		0	2 gal condensate, changed oil.
3/17/2022	2,296	Vent	4	164	111		0	
4/5/2022	2,315	Vent	0	390	147		0	
4/27/2022	2,337	Vent	0	244	1,185		0	

Notes:

Blank cells - Not all wells were measured with the PID during each sampling event.

¹ Days in operation since system startup on April 17, 2015.

Table 2-3 VOC Mass Removal Estimate - SWMU 172/174 SVE System

		Corrected Value	System Flow	Cumulative	VOCs removed in Operating Period Between Monitoring	Cumulative VOC Mass Removed Since Start of SVE Operations in
Date	PID Reading (ppbv)	(PCE) (ppbv) ¹	(cfm)	Runtime Hours	Events (lbs) ²	April, 2015 (lbs)
10/29/2021	236	137	105	42,953	0.118	23.79
11/17/2021	Check oil and drain co	ondensate		43,409		23.79
11/23/2021	247	141	105	43,555	0.217	24.01
12/2/2021	80	46	105	43,768	0.025	24.04
12/13/2021	77	44	105	44,031	0.030	24.07
12/20/2021		0	105	44,199	0.000	24.07
1/24/2022	147	84	105	44,199	0.000	24.07
1/24/2022	129	74	105	44,200	0.000	24.07
1/24/2022	127	73	105	44,201	0.000	24.07
1/25/2022	150	86	105	44,226	0.005	24.07
2/9/2022	153	88	105	44,582	0.080	24.15
2/17/2022 ³	153	88	105	44,778	0.044	24.20
3/4/2022	258	148	105	45,134	0.134	24.33
3/17/2022	111	63	105	45,444	0.050	24.38
4/5/2022	147	84	105	45,903	0.099	24.48
4/27/2022 ³	147	84	105	46,430	0.113	24.59

Notes:

PID = photoionization detector ppbv = parts per billion by volume cfm = cubic feet per minute lbs = pounds

¹ A correction factor of 0.57 has been applied to the PID vapor measurement for VOCs based on the mixture of analytes detected in the TO-15 analysis at the influent sample point from 12/2/21. This number is much higher than the TO-15 results.

TO-15 analysis results showed Tetrachloroethene made up 89% of the total VOCs removed at the influent on 12/2/21.

² These are based solely on the PID measurements collected this period; the prior TO-15 analyses indicates much lower mass.

³ The PID readings from this week are significantly higher than the laboratory results and if used, would overestimate the mass removal. Prior week PID readings have been used instead to estimate mass removal.

Table 2-4 PCE Baseline and Rebound Data Comparison - SWMU-172/174 SVE System

	PCE								
	Concentration	PCE	PCE	PCE					
	at initial startup	Concentration	Concentration	Concentration	PCE	% Reduction			
	of SVE	Prior to	after 35-Day	after 24-Hours	Concentration	from start of	% Reduction		
			'		after 16 days	SVE to baseline	from start of	% Reduction	% Reduction
	(4/17/15)	(12/2/21, ppbv)	(1/24/22, ppbv)	(1/25/22,	operation	asymptote for	SVE to after 35-	after 1-Day	after 16-Day
	(ppbv) ¹	2	2	ppbv) ²	(2/9/22, ppbv) ²	rebound test	Day rest period	rebound test	rebound test
SVE-3	7,353	70	110	120	68	99.0%	98.5%	98.4%	99.1%
System Inlet	1,500 ²	39	58	71	38	97.4%	96.1%	95.3%	97.5%

¹Listed values are corrected field measurements taken at time of system startup, 0.57 for PCE.

Unless otherwise noted data points are corrected PID measurements, 0.57 for PCE.

²Values listed are from TO-15 analytical data for PCE.

Table 2-5 Rebound Mass Removal Results - SWMU-172/174 SVE System Influent

			Influent TO-15			
		PID	Results -	System		Percent of
		Reading	PCE	Flow	removal	Peak
SWMU-172/174 Influent	Date	(ppbv) ¹	(ppbv)	(cfm)	(lbs/day) ³	Removal
Peak Mass Removal	4/17/2015	NA	1,500	73	0.068	
Baseline prior to Rebound Start ²	12/2/2021	80	39	105	0.003	4%
After 35-Day Rest Period	1/24/2022	126.5	58	105	0.004	6%
1-Day of Operation	1/25/2022	150	71	105	0.005	7%
16-Days of Operation	2/9/2022	153	38	105	0.002	4%

¹ PID uncorrected

² System changes included a new blower before this test with an increased flow rate so direct comparison of mass removal needs to consider increased flow rate

³ Based on TO-15 results for PCE

Table 3-1 Groundwater Monitoring Results Summary February 2022 and Recommended ERD Treatment

GW Treatment Area	Source and down gradient MWs	CPOC wells	Treatment IWs	ERD Treatment Recommendation
SWMU-172/174	PCE, TCE and cisDCE showed slight increases from prior monitoring at GW-152S; all results are below 2.0 ug/L.; VC less than 0.22 ug/L.	All detections are at or below 0.31 ug/L	North IW B172-01 is ND for CVOCs, South IW B172-08 near GW-152S show PCE at 1.6 ug/L and cisDCE at 0.3 ug/L. TOC near background.	Recommend additional injections in area of GW-152S to continue driving CVOCs down.
Building 4-78/4-79 SWMU/AOC Group	TCE is nondetect, cisDCE is under near 4.0 ug/L; VC at 9.0 ug/L. Benzene reduced in source well GW033S (14.5 ug/L to 8.6 ug/L).		B78-16 showed TCE less than 1.0 ug/L and elevated cisDCE at 300 ug/L and VC at 290 ug/L.	Recommend substrate injection in selected IWs/areas around GW033S for ERD, Nitrate/sulfate injections in two new injection galleries near former GW031S.
AOC-001/002	Prior data Mar 2020: Source MW: TCE is 0.03 ug/L, cisDCE is 0.49 ug/L and VC is 0.27 ug/L.	Prior data Aug 2019: All detections below 0.30 ug/L.	Prior data Mar 2018, detections at or below 0.30 ug/L.	Site still not accessible due to construction
AOC-003	VC estimated at less than 0.4 ug/L.	VC estimated at less than 0.6 ug/L.	B003-01 showed VC at <0.2 ug/L and TOC near background	Recommend additional injections to continue driving CVOCs down.
Lot 20 / former 10-71	Prior data May 2020 - All wells are ND.	-	-	No action at this time.
AOC-60	Treatment MWs with total CVOCs less than 2.2 ug/L, other MWs with total CVOCs less than 0.62 ug/L, primarily cis-1,2DCE and VC.	MW's with total CVOCs less than 0.30 ug/L, primarily as cis-1,2DCE and VC.	-	Recommend additional injections to continue driving CVOCs down.
AOC – 90	Source with VC of 0.09 ug/L, all other VOCs are ND; down gradient well with VC at 0.31 ug/L.	VC less than 0.40 ug/L.	-	Recommend additional injections to continue driving CVOCs down.
Apron A	cis-1,2DCE is nondetect and VC reduced to 2.54 ug/L	-	-	Recommend additional injections to continue driving CVOCs down.
SWMU-168	-	VC reduced to 0.16 ug/L.	-	No action at this time.
Building 4-70	-	Prior data March 2020, total CVOCs less than 0.63 ug/L.	-	No action at this time.

Table 3-2 - November 2021 Injection Volumes at 4-78/79 Benzene Treatment Wells

Area	Injection Well	Volume Total (gal)	NaNO3 (lbs)	MgSO4 (lbs)	DAP (lbs)	Concentration NO3 Injected (mg/L)	Concentration SO4 Injected (mg/L)
Building 4-78/79	Injection Gallery A	2000	36.5	16.7	21.4	1,599	803
	Injection Gallery B	1000	18.2	8.4	10.7	1,599	803
	B78-11	250	4.6	2.1	2.7	1,599	803

Notes:

NaNO3 - Sodium Nitrate MgSO4 - Magnesium Sulfate DAP - Diammonium Phosphate

Table 3-3 – Renton Performance Monitoring February 2022 with historical data (prior to the February 2022 sampling) in shaded cells

	(,	98, 9						
AOC/SWMU				cis-1,2-DCE		Benzene	Nitrate-	Nitrite-N	Sulfate	
Area	Well	Date	TCE (µg/L)	(μg/L)	VC (μg/L)	(μg/L)	N (mg/L)	(mg/L)	(mg/L)	TOC (mg/L)
4-78/79 CULs	i		0.23	0.7	0.2	0.8				
4-78/79	GW-210S	3/3/2017	< 0.2	< 0.2	< 0.2	< 0.2				40.9
4-78/79	GW-210S	5/11/2017	< 0.2	< 0.2	< 0.2	< 0.2				41.9
4-78/79	GW-210S	8/16/2017	< 0.2	< 0.2	< 0.2	24				12.6
4-78/79	GW-210S	11/14/2017	< 0.20	< 0.20	< 0.20	8.45				10.1
4-78/79	GW-210S	3/6/2018	< 0.20	< 0.20	< 0.20	1.12				59.05
4-78/79	GW-210S	5/7/2018	< 0.20	< 0.20	< 0.20	< 0.20				9.98
4-78/79	GW-210S	8/14/2018	< 0.20	< 0.20	< 0.20	0.28				11.63
4-78/79	GW-210S	11/13/2018	< 0.20	< 0.20	< 0.20	< 0.20				7.22
4-78/79	GW-210S	3/5/2019	< 0.20	< 0.20	< 0.20	< 0.20				14.47
4-78/79	GW-210S	5/7/2019	< 0.20	< 0.20	< 0.20	< 0.20				6.37
4-78/79	GW-210S	8/13/2019	< 0.20	< 0.20	< 0.20	< 0.20				79.1
4-78/79	GW-210S	11/12/2019	< 0.20	< 0.20	< 0.20	< 0.20				126.6
4-78/79	GW-210S	3/11/2020	< 0.20	< 0.20	< 0.20	< 0.20				219.9
4-78/79	GW-210S	5/12/2020	< 0.20	< 0.20	< 0.20	< 0.20				226.1
4-78/79	GW-210S	2/17/2022	<0.2	<0.2	<0.2	0.56	<0.1	<0.1	5.73	
4-78/79	B78-16	11/26/2014	0.6	0.6	0.4	14				11.3
4-78/79	B78-16	11/10/2015	< 0.2	1.7	4	28				
4-78/79	B78-16	2/17/2022	0.94	288	280	8.3				13.4
4-78/79	B78-16	2/17/2022	0.9	299	293	7.9				
AOC/SWMU					cis-1,2-DCE					
Area	Well	Date	PCE (µg/L)	TCE (µg/L)	(μg/L)	VC (μg/L)				TOC (mg/L)
SWMU-172/1	74 CULs		0.02	0.02	0.03	0.11				
SWMU-172/1	B172-01	12/3/2014		0.4	0.2	< 0.2				
SWMU-172/1	B172-01	2/17/2022	<0.2	<0.2	<0.2	<0.2				1.3
SWMU-172/1	B172-08	12/2/2014		8.8	32	< 0.2				
SWMU-172/1	B172-08	2/17/2022	1.62	<0.2	0.3	<0.2				1.6
AOC/SWMU										
	Well	Date				VC (μg/L)				TOC (mg/L)
AOC-003 CUL						0.24				
AOC-003	B003-01	12/1/2014				0.3				11.7

Notes

AOC-003

AOC-003

AOC-003

B003-01

B003-01

B003-01

 $\begin{tabular}{lll} PCE = Tetrachloroethene & VC = Vinyl Chloride \\ TCE = Trichloroethene & \mu g/L = microgram/liter \\ cis-1,2-DCE = cis-1,2-Dichloroethene & mg/L = milligram/liter \\ -- = not analyzed & CULs = cleanup levels \\ \end{tabular}$

2/11/2016

5/11/2017

2/17/2022

shaded cells are historical data (prior to the February 2022 sampling)

0.28

0.27

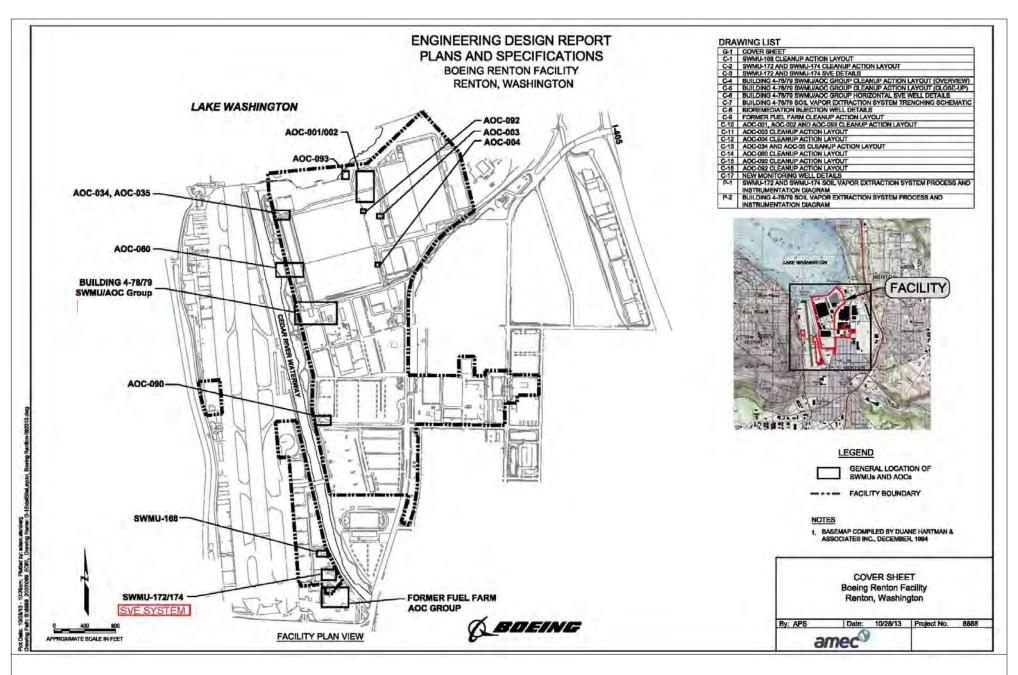
<0.2

18.8

15.1

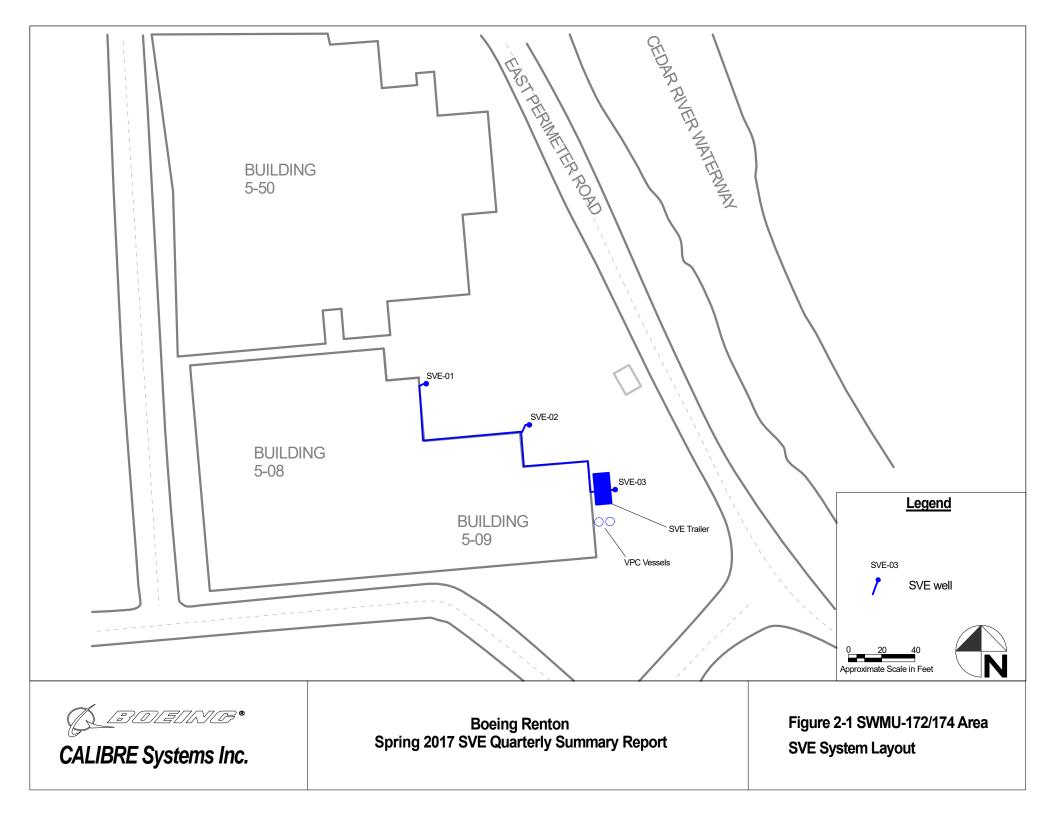
31.5

FIGURES



CALIBRE Systems, Inc.

Figure 1-1 Site Location/ AOC Outlines



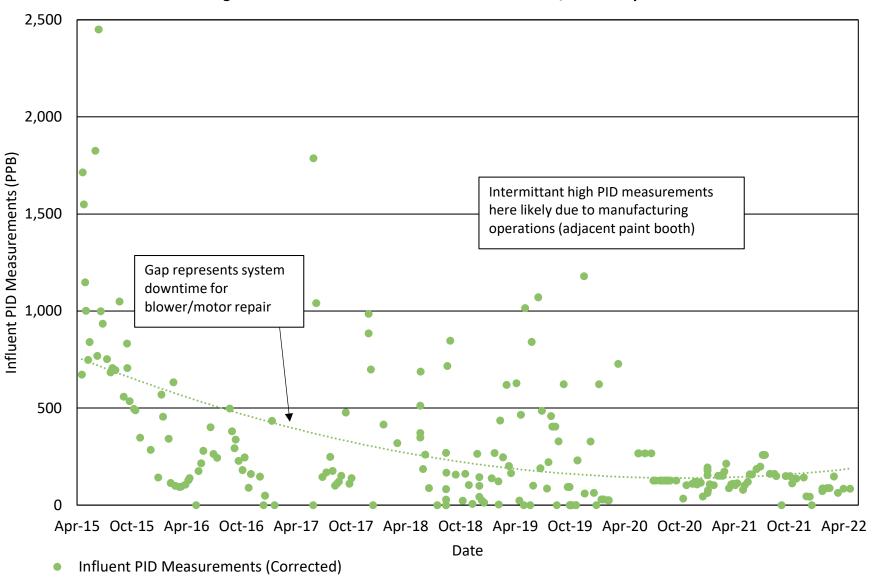
26.0 Rebound testing 24.0 COVID-19 and Carbon drying 22.0 20.0 18.0 VOCs Removed (lbs) 16.0 Gap represents system Rebound testing downtime for 14.0 blower/motor repair 12.0 10.0 8.0 6.0 4.0 2.0 0.0 Apr-15 Oct-15 Apr-16 Oct-16 Apr-17 Oct-17 Apr-18 Oct-18 Apr-19 Oct-19 Apr-20 Oct-20 Apr-21 Oct-21 Apr-22 Date -VOC Mass Removed —Operational Change

Figure 2-2 Cumulative VOC Mass Removed - SWMU-172/174 SVE System

*SWMU 172/174 SVE system did not run Winter 2017 due to equipment failure. Feb 2020 - System adjusted to dry carbon with hot ambient air due to condensate

Mar 2020 to May 2020 - System shut down due to Govenors Stay at Home order related to Covid-19

Figure 2-3 Influent PID Measurements - SWMU-172/174 SVE System



^{*}SWMU 172/174 SVE system did not run Winter 2017 due to equipment failure

Attachment A: Field Log Forms

Inspection Time:	— • • · · · ·		tor Hours:		toring interval	13 Variable.		
	1300				NRL			
Blower	Current	Value				er Notes	1.	-
Vacuum gauge		l l				011 406	our of	
Pressure			zonp xy	conden	sate.			
gauge			- 1	.				
System flow		~	1901	fe mou	ea.			
rate			10 0	1:	ed.			
Blower		10	e rea	angs c	3/120100			
Temperature								
Temp.at lag VPC discharge								
Other notes: che	eck oil level,	drive belts, TE	FC motor	fan, any un	usual noise/vil	oration		

				r=			***	
PID Model:				Details:	v			
Calibration time/	date:			PID check	after monitori	ina:		
oundrador arrior							·	
Sampling	Time	PID Reading	g PID	Reading	Vacuum	Flow Rate	Differential	Flow Rate
Point		(1)		(2)		(gauge)	Pressure	Calculated
SVE-01								
SVE-02			-	=	Δ.	=		
SVE-03					t.			
VPC Inlet				¥				
VPC Midpoint	1							
VPC Midpoint VPC Outlet								
P. 1000 NO. 1000 NO. 10								
VPC Outlet Other vapor point	liculated from the	ne equation Flow R	Pate (cfm) =	: 12 24 × difi	ferential massur			

Inspection Date: _	11/23/21	Date of last inspection:	
Periodic systems of	check:		
1) Check flowrate.	vacuum, pressure, m	oisture separator, water storage drums	
2) Check each SV	E well VPC inlet and	VPC outlet with PID.	2
	Oper	ational Parameters - Monitoring interval is variable.	
Inspection Time:	1149	Motor Hours: 7774.8	
Blower	Current Value	Other Notes	
Vacuum gauge	34-14-0	2 sol condensate removed	
Pressure gauge	10° H20	2 sal condensate removed Picked up new contgas can @ Wational Safety	
System flow rate	1055cFM	Wortional Safety	
Blower Temperature	106°F		
Temp.at lag VPC discharge			
Other notes: che	eck oil level, drive belt	s, TEFC motor fan, any unusual noise/vibration	

PID Model: PPB RAE 3000			Details:	1775	10.09770	~	
Calibration time	e/ date: // (2	13/21 1200	PID check	after monitor	ing:		
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated ¹
SVE-01	NA						
SVE-02	1230	94226	68,775				
SVE-03	1220	246 PAS	260 PP5				
VPC Inlet	1215	250 776	243 pps				
VPC Midpoint							
VPC Outlet	1210	0	0				
Other vapor point					,		

^{1.} Flow rate calculated from the equation Flow Rate (cfm) = $12.24 \times \sqrt{differential}$ pressure.

Questions? Call Justin No At the Completion of a mo	este @ (360) 981-5606 onitoring event scan monitoring forms and	l email to Justin Neste: Justin.Neste	e@calibresys.com
	()	Jus tin Neste	11/23/21
Signature	Printed Name	Signature	Date

Inspection Date:	12/2/21	Date of last inspection:	
Periodic systems of	check:		
1) Check flowrate,	vacuum, pressure, m	noisture separator, water storage drums	
2) Check each SV	E well, VPC inlet, and	VPC outlet with PID.	- No.
	Oper	ational Parameters - Monitoring interval is varia	able.
Inspection Time:	0847	Motor Hours: 4987.4	
Blower	Current Value	Other Not	es
Vacuum gauge	32"H20	No condensate water Collected TO-15 Simple	
Pressure gauge	10 " 1-120	SUEIN - 120221 @ 0931	can# 34000 754
System flow rate	105 SCFM	SUE3-120221 C 0935	can # 122193
Blower Temperature	105 1		, = = , = 5
Temp.at lag VPC discharge			
Other notes: che	eck oil level, drive bel	ts, TEFC motor fan, any unusual noise/vibration	

PID Model: PPBRAE 3000				Details: 6 / 10.01 > >m				
Calibration time	e/ date:	121 0900	,	PID check after monitoring:				
Sampling Point	Time	PID Reading (1)	The second of the	eading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated ¹
SVE-01	closul							
SVE-02	0925	42 ppb	4/7	P6				
SVE-03	0932	115 ppb 18 296	B 3	PPS				1
VPC Inlet	0910	78 des	81 F	dqa			= ,	
VPC Midpoint								
VPC Outlet	0905	0	0					
Other vapor point				"				

^{1.} Flow rate calculated from the equation Flow Rate (cfm) = $12.24 \times \sqrt{differential}$ pressure.

Questions?	C-II 1 4:	- Nesta @	(200)	004 EC	20
Guestions?	Call Justi	n neste a	(JOOL)	901-00	סט

At the Completion of a monitoring event scan monitoring forms and email to Justin Neste: Justin.Neste@calibresys.com

0:1	Justin Nestr	()= n=	12/2/2/
Signature	Printed Name	Signature	Date

Inspection Date:	12113/21	Date of last inspection:
Periodic systems (cneck:	
1) Check flowrate.	vacuum, pressure, m	oisture separator, water storage drums
2) Check each SV	F well VPC inlet and	VPC outlet with PID.
		ational Parameters - Monitoring interval is variable.
Inspection Time:	2159	Motor Hours: 5250,5
Blower	Current Value	Other Notes
Vacuum gauge	35"H20	Adoled oil to blown
Pressure gauge	10 "Hzv	Adoled oil to blown
System flow rate	1055cFM	
Blower Temperature	10305	
Temp.at lag VPC discharge		
Other notes: che	eck oil level, drive belt	s, TEFC motor fan, any unusual noise/vibration

PID Model:	D D	Details:	Details: 0 / 10 0/ ppm				
Calibration time	e/ date: 12	13/21 0805	PID check	after monitor	ing:		
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated ¹
SVE-01							
SVE-02	0823	4 ppb	D	5			
SVE-03	0830	101 275	115 ppb	W 250			
VPC Inlet	0816	80 776	74 pas	-34			
VPC Midpoint				1	-		
VPC Outlet	0810	0	0		9		
Other vapor point							

^{1.} Flow rate calculated from the equation Flow Rate (cfm) = $12.24 \times \sqrt{differential}$ pressure.

Questions? Call Justin Nest At the Completion of a moni	e @ (360) 981-5606 toring event scan monitoring forms and	d email to Justin Neste: Justin.Ne	ste@calibresys.com
Signature	Justin Neste	Signature	12/13/21

) Check flowrat 2) Check each S	VE well, VPC	inlet, and VP	C outlet wit	h PID.	nitoring interva	l ie variable		
Inspection Time	9. 00.5		otor Hours:			i is variable.		
				541		her Notes		
Blower	Current							
Vacuum gauge	35"/	120 7	gal co	notun si	m cemo	neth	Q and	
Pressure	10"40	0 5	hut s ys	temdos	un for Bo	seing Holde	y is reak	
gauge System flow								
rate	1053	cFM						
Blower	10101							
Temperature Temp.at lag								
VPC discharge	1							
Other notes:	heck oil level,	drive belts, I	EFC motor	tan, any ur	iusuai noise/vi	bration		
PID Model:	PPBRA	E 3000		Details:		nd bbw		
Calibration time	e/ date:	elzolzi o	200	PID chec	k after monitor	ing:		
Sampling Point	Time	PID Readir (1)	ng PID	Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated ¹
SVE-01								
SVE-02	0835	35 pps		776				
SVE-03	0840	232 pp	5 202	499				
VPC Inlet	0830	193776	, 191	P75				
VPC Midpoint		- 10.45 (10.65)						
VPC Outlet	0825	0	0					
Other vapor point								
	calculated from th	e equation Flow	Rate (cfm) = 1	12.24 × ./dif1	erential pressure	,		
		o oquation i ton	(0))	, , , , , , , , , , , , , , , , ,	or contract pressure	•		
	odiodiated from th							
1. Flow rate		ත (360) 981-5	606					
	Justin Neste (@ (360) 981-5 ing event sca	606 n monitoring	g forms and	d email to Justi	n Neste: Justin	.Neste@calibre	sys.com
Flow rate Questions? Call	Justin Neste (@ (360) 981-5 ing event sca	606 n monitoring	g forms and	d email to Justi	n Neste: Justin	.Neste@calibre	sys.com

	Marilas	Date of last inspection:
Inspection Date: _	1129122	Date of last inspection:
Periodic systems of	check:	
1) Check flowrate,	vacuum, pressure, m	oisture separator, water storage drums
2) Check each SV	E wall VDC inlet and	VPC outlet with PID.
	Opera	ational Parameters - Monitoring interval is variable.
Inspection Time:	0915	Motor Hours: 5-118.7
Blower	Current Value	Other Notes
Vacuum gauge	35"H20	Stortup System after (154 period for rebound testing) 142 24R 1128 0 27-0/0775
Pressure gauge	10 1100	TN - 126/132 PP6 1039 132 TN-12/132 PPS
System flow rate	105°FM	2 - 30/2978 1042 1136 2 - 51/53 P7 5 3 - 148/160pp 1046 1140 3 - 181/180775
Blower Temperature	6415	
Temp.at lag VPC discharge		1015 samples 50 = 3-0124 22 @ 1143
Other notes: che	eck oil level, drive belt	s, TEFC motor fan, any unusual noise/vibration

PID Model:	PPBRAI	3000	Details:	0/10	.01 ppm		
Calibration time	e/ date: 1/24	122 0540	PID check	after monitor	ing:		
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated ¹
SVE-01	OFF						
SVE-02	0955	413 ppb	54 pps		7 335 CE	75" HD	
SVE-03	1002	199 PPS	189 P75		>30 'Steph	75" (420)	
VPC Inlet	0447	143 200	151 pps				
VPC Midpoint							
VPC Outlet	0943	2 ppb	0 976				
Other vapor point							

^{1.} Flow rate calculated from the equation Flow Rate (cfm) = $12.24 \times \sqrt{differential}$ pressure.

Questions? Call Justin Nes	ite @ (360) 981-5606 hitoring event scan monitoring forms and	email to Justin Neste: Justin.Nes	ste@calibresys.com
Signature	Justin Nester	Signature	1/24/21 Date

Inspection Date: Le Periodic systems c	1/25-22	Date of last inspection: 1/24-22	
 Check flowrate, 	vacuum, pressure, m	noisture separator, water storage drums	
2) Check each SVI	E well, VPC inlet, and		
Inspection Time:	1240	Motor Hours: 5445.7	
Blower	Current Value	Other Notes	
Vacuum gauge Pressure gauge System flow rate Blower Temperature Temp.at lag	34"H20 5"H20 105 SEM 102° F	10-18 soumPles SVE35-012522 1303 123073 Inflow 012522 1309 121679	
VPC discharge			
Other notes: ch	eck oil ievel, drive bel	ts, TEFC motor fan, any unusual noise/vibration	

PID Model:	opb R	AE ZOI	00	Detai	ls:	011	S. OL PPH		
Calibration time/ date: PID check af								/	
Sampling Point	Time	PID Read (1)	ing	PID Readii (2)	ng	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated ¹
SVE-01	04								
SVE-02	1253	48 D	PB	44 PF	В		> Boscen	>54/ke	
SVE-03	1250	222		236		12	7305CFA	>5 H20	
VPC Inlet	1245	149		151					
VPC Midpoint				,	50, 3000				
VPC Outlet	1248	01		0					
Other vapor point									

^{1.} Flow rate calculated from the equation Flow Rate (cfm) = $12.24 \times \sqrt{differential}$ pressure.

Questions? Call Justin Neste @ (360) 981-5606	
At the Completion of a monitoring event scan monitoring forms and email to Justin Neste: Justin.Neste@calibresys.c	om

Signature	Aure Lassen	Me	
Signature	Printed Name	Signature	Date

Inspection Date:	2/9/2	2	ate of last inspect	tion: 1/25/	22		
renodic systems	cneck:						
		ressure, moisture s		orage drums			
2) Check each S	VE Well, VPC	inlet, and VPC ou	Parameters - Mor	nitoring interval	is variable.		
Inspection Time	D830		Hours: 5801.				
Blower	Curren	t Value			er Notes		
Vacuum gauge	32'		PIR GUE34.				
Pressure gauge	5"H	~	3-020922 6	83.00			
System flow rate	10536	FM SUET	N-020921 @	0416 123	3181		
Blower Temperature	10301	6					
Temp.at lag VPC discharge							
Other notes: c	heck oil level	, drive belts, TEFC	motor fan, any ur	nusual noise/vi	bration		
	PB EAE	3000	Details:		2.04 ppm		
Calibration time	e/ date: 2/	91220830	PID chec	k after monitor	ing:		
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rat Calculate
SVE-01	off		UPW.				
SVE-02	0845	56 pb	47 pzs				
SVE-03	0855	190 prs	187 pps		= = , 9		
VPC Inlet	0850	152 pps	154 pp6				
	0,00	130 663	1-(17)				
VPC Midpoint	0830						
VPC Outlet	0840	0	0				
VPC Outlet Other vapor point	0840		0	ferential pressur	e.		
VPC Outlet Other vapor point	0840	0	0	ferential pressur	e.		
VPC Outlet Other vapor point 1. Flow rate Questions? Call	0840 calculated from to	0	O $(cfm) = 12.24 \times \sqrt{dij}$			n.Neste@calibi	resys.com
VPC Outlet Other vapor point 1. Flow rate Questions? Call	D840 calculated from the state on of a monitor	the equation Flow Rate (a) (360) 981-5606 oring event scan m	O $(cfm) = 12.24 \times \sqrt{dij}$			n.Neste@calibr	resys.com

Inspection Date:	21142	Date of last inspection:	
Periodic systems	check:		
1) Check flowrate,	vacuum, pressure, mo	noisture separator, water storage drums	
2) Check each SV	E well VPC inlet and	1 VPC outlet with PID.	
	Opera	rational Parameters - Monitoring interval is variable.	
Inspection Time:	1220	Motor Hours: 5-99 7.2	_
Blower	Current Value	Other Notes	-
Vacuum gauge	33 Mzo	1 gallon of condensate	
Pressure gauge	5" MW		
System flow rate	105 SCFM		
Blower Temperature	104°F		
Temp.at lag			
VPC discharge	i ii lii lii lii lii lii lii lii lii li	TEEC mater for any unusual noise/vibration	
Other notes: che	eck oil level, drive beits	ts, TEFC motor fan, any unusual noise/vibration	
			25000000

PID Model: P	PB PARE	3000	Details:		10.05 PM	1	
Calibration time	e/ date:	2/17/22 1220	PID check	after monitori	ng:	8. 1	
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated ¹
SVE-01	trent						
SVE-02	1237	583	604				
SVE-03	1235	1037	1172				
VPC Inlet	1233	125/11/08	177 980				
VPC Midpoint	1231	125	127				
VPC Outlet	7229	6	0				
Other vapor			623				

^{1.} Flow rate calculated from the equation Flow Rate (cfm) = $12.24 \times \sqrt{differential}$ pressure.

Questions? Call Justin Neste @ (360) 981-5606
At the Completion of a monitoring event scan monitoring forms and email to Justin Neste: Justin.Neste@calibresys.com

Signature

Rune Lassen
Printed Name

Signature

2/11/00

Inspection Date: Periodic systems 1) Charleston	3/4/2 2 check:		Date of last inspec		/22		
2) Check each S'	e, vacuum, pr VE well VPC	essure, moisture :	separator, water s itlet with PID	storage drums			
		Operational	Parameters - Mo	nitoring interval	l is variable.		
Inspection Time	2814	Motor	Hours: 6353.	0			
Blower	Current	Value		Otl	her Notes		
Vacuum gauge	34'	H20 2	sul condens	ath		1	
Pressure gauge	5"4	Iw Ch	renged How	ur oil			
System flow rate	1055cF	m					
Blower Temperature	102°F						
Temp.at lag VPC discharge							
Other notes: ch	neck oil level,	drive belts, TEFC	motor fan, any u	nusual noise/vi	bration		
PID Model:	PABRAE	3000	Details:	0/10	.03 ppm		
Calibration time	date: 3/	4/22 0815	PID ched	k after monitor			
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated
SVE-01	off				10-30		
SVE-02	835	عرم م	15 796				

303 AB

255 px

0

839

0830

0825

SVE-03

VPC Inlet

VPC Midpoint

VPC Outlet

Other vapor

point

Questions? Call Justin Neste @ At the Completion of a monitorin	(360) 981-5606 g event scan monitoring forms and en	nail to Justin Neste: Justin.Neste@	⊉calibresys.com
Signature	Jastin Nejte	Signature	3/4/22

348 pps

260 716

0

^{1.} Flow rate calculated from the equation Flow Rate (cfm) = $12.24 \times \sqrt{differential}$ pressure.

	01.1			3/4/	/23		
Inspection Date:		27	Date of last inspec	tion:			
Periodic systems	s check:	2 63					
			separator, water s	torage drums			
2) Check each S	SVE well, VPC	inlet, and VPC o	Description PID.	eitorina intonya	Lie veriable		
Increation Time			Parameters - Mor		i is valiable.		
Inspection Time	0012		666				
Blower	Curren			Ot	her Notes		
Vacuum gauge	33"	120 N.	s condensate				
Pressure gauge	5"4	$i\omega$					
System flow rate	105 ×	FM					
Blower	208						
Temperature	103°F						
Temp.at lag							
VPC discharge	h l il l l	drive helte TEEC	Smalarfan anviv	vioual paiachi	hrotion		
Other notes: C	neck oil level	, drive beits, TEFC	C motor fan, any ur	iusuai rioise/vi	Diation		
				4			
PID Model:	PPBRAT	3000	Details:	0/10.0	12 ppm		
Calibration time		7/22 0842	PID chec	k after monitor			
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated ¹
SVE-01						141	
SVE-02	0960	2 pp5	5 ppb			19	
SVE-03	8905	155 ppb	172 ppb				
VPC Inlet	0915	10777	114 pps				
VPC Midpoint		1			1		8
VPC Outlet	0855	0	0				

Other vapor

point

Questions? Call Justin Neste At the Completion of a monit		and email to Justin Neste: Justin.Ne	ste@calibresys.com
Signature	Justin Nate	Jy Constitute Signature	3/17/22

^{1.} Flow rate calculated from the equation Flow Rate (cfm) = $12.24 \times \sqrt{differential}$ pressure.

Periodic systems of 1) Check flourest	4/5/22 check:	Date of la	ast inspection:	3/17/22		
2) Check flowrate.	Vacuum prosession					
Check each SV	check: vacuum, pressure, m E well, VPC inlet, and	oisture separato	r, water storage	e drums		
	vacuum, pressure, m E well, VPC inlet, and Oper	VPC outlet with	PID.			
Inspection Time:	- John	ational rafaine	ters - Monitorin	g interval is variable.		
	1151	Motor Hours:	7	122.9		
Blower	Current Value			122.9		
Vacuum gauge		ļ		Other Notes		
	32" Ho	added	Oil			
Pressure		avue	O. (
gauge	5" Hro	Ì				
System flow		1				
rate	1055CFM					
Blower		1				
Temperature	111°F	-				
Temp.at lag		1				
VPC discharge		*				
Other notes: che	eck oil level, drive belt	TEEC motor for				-
	on lovel, drive belt	s, TEFC Motor ta	an, any unusual	noise/vibration		
PID Model: PP	B RAE 3000		Details: 0 /	19,99 PPH		
Calibration time/	date: 1.171.20	1:41	PID check after	monitoring		

Calibration time	e/ date: 4/5	122 1151	PID check	k after monitor	PPY Ping:		
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated ¹
SVE-01			22				Jaioaiatou
SVE-02	115	٥	0				
SVE-03	1200	378 Pr b	401 476				
VPC Inlet	1205	148 193	145 776	Control of the contro			
VPC Midpoint							
VPC Outlet	1207	- 0	٥				
Other vapor point							-

Flow rate calculated from the equation Flow Rate $(cfm) = 12.24 \times \sqrt{differential}$ pressure.

Questions? Call Justin Neste @ (360) 981	606
At the Completion of a monitoring event so	n monitoring forms and email to Justin Neste: Justin.Neste@calibresys.com
	1

Signature

Rune Lassen Me 195/22

Printed Name
Signature
Date

Renton Cleanup Action SVE System – SWMU 172/174 Field Operations Log Form

Inspection Date:	4/22/2	Z.	Ds	ate of la	ast inspecti	4/	15/22		
ellodic systems			0	ale of le	asi irispecti	OH			
Check flowrate, 2) Check each SVE		ssure, mo	isture se	parato	r, water sto	orage drums			
	- Well, VI O	mot, and	VI O Out	CC WILLI	I ID.	toring interval	is variable.		
Inspection Time:	1042	•	Motor I	Hours:		19.5			
Blower	Current	Value			10		er Notes		
Vacuum gauge	32" /		avo	ed a	oil		ioi itotes		
Pressure gauge		10							
System flow	1053								
rate Blower									
Temperature	111° F								
Temp.at lag VPC discharge									
Other notes: ch	eck oil level,	drive belt	s, TEFC	motor	fan, any un	usual noise/vi	bration		
PID Model:	PB RAE	360	0		Details:	0//	D. I PPH		
Calibration time/		27/22		10	PID chec	k after monitor			Market
Sampling Point	Time	PID Re	ading		Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated
SVE-01		,							
SVE-02	1045	07	76	٥	776				
SVE-03	1050	341	DAS	147	L PPb				
VPC inlet	1055	1238	PPD	1131	PPb		*		
VPC Midpoint						,			
VPC Outlet	1052	D	PPb	D.	PPB				
Other vapor point			-						
1. Flow rate	calculated from	the equation	Flow Rate	(cfm) =	: 12.24 × √ <i>dif</i>	ferential pressur	e.		
Questions? Call	Justin Neste	@ (360)	981-560	8		-d	4'- 5 11 11		
At the Completi	on or a monit	oning ever	il scan n	ionitorii	ng torms ar	iu emaii to Jus	un Neste: Justi	n.Neste@calib	resys.com
, ,		P	me	Lass	ca	N	1	4	124/4
Signatu	ire			Printed Name)		Signature		Date

Well Sampling Data Sheet 172/174 Lerton 2/17/2022 Site Location Date BIT2-08 Well ID Samplers 14 Constructed Depth pic Casing Material Food Condition of Well Casing Diameter Field Measurements: 20 Depth Measured From: Time Top of access port 8.30 Depth to Water Mark on PVC casing Mark of protective casing Other **Purging Information:** Peristaltic Non-dedicated Dedicated Pump: Other: Stainless Steel PVC Bailer: Purge End Time Purge Start Time Approximate Volume Purged Water Monitoring Conditions: Turbidity Vol. Purged ORP (mV) pH (NTU) Conductivity (mS/cm) D.O. (mg/L) Temperature (°C) (gal) Time 1000 2.66 6.41 -12 1329 0.200 1125 440 6.40 3.01 -13 0.158 92 6.5 1130 35.7 23 6.42 2.27 0.154 3.01 1,0 1350 24.5 39 6.38 1.25 0.168 3.40 1.5 40 6.37 16.0 52 3.83 0.49 0.179 145 2.0 10.4 0,184 6.35 59 0.09 14.10 1150 2,5 0,0 60 6.35 422 0407 0.0 1155 3-0 Sampling Data: B122-08-021722 157 Sample ID Time 3.25 **Duplicates** Vol. Purged (gal) 434 OA/QC Volumes Temperature (°C) 0.188 Conductivity (mS/cm) 0.0 D.O. (mg/L) 6.34 pH 68 ORP (mV) 8.0 Turbidity (NTU) Sampling Device: 1 Teflon Bailer **Dedicated Pump** SS Bailer **PVC** Bailer Analyses to be Performed: Sulfate 375.2 SVOCs by 8270C **VOCs 8260** Volatile Organics RSK-175 (methane, ethane, ethene) SVOCs by 8270C/SIM RCRA 8 or Total Metals Total Organic Carbon Priority Other 415.1 Pollutants Dissolved Metals Well Sampling Notes: Diameter Well Volume (Gal/ft) PCE, TCE, Lis In. XE, VC 0.041 1 inch Clear no over 0.163 2 inch 0.653 4 inch 1.469 6 inch Or:(total depth(ft) - DTW(ft)) x Well Dia2 x 0.0408 1 Well Volume

Well Sampling Data Sheet

Samplers JW Well ID Garing Material Constructed Depth Casing Diameter Condition of Well Condition of				V	Well Sampling Data Sheet			1	
Sampling Delicated Delic	Date	12/1	7 122					2/179	
Desire D	Samplers		rN			· L	3172-01		
Condition of Well									
Purging Information:			211		Condition of Well		OK		
Pepth to Water									
Depth to Water		a care	1125		Depth Measured From:				
Mark of PVC casing Mark of protective easing N50 cof cos Other						Top of ac	cess port		
	Depui to water		100			Mark on J	PVC casing		
Purging Information: Dedicated Non-dedicated Peristaltic Purge Start Time Purge End Time Purge End Time Approximate Volume Purged Purge End Time Purge End Time Purge Conductivity (mS/cm) D.O. (mg/L) pH ORP (mV) Turbidity (mS/cm) D.O. (mg/L) pH ORP (mV) Turbidity (mS/cm) D.O. (mg/L) pH ORP (mV) ORD (mV)						Mark of r	protective casin	ıg	
Purging Information: Dedicated Non-dedicated Peristaltic Purge Start Time Purge End Time Purge End Time Approximate Volume Purged Purge End Time Purge End Time Purge Conductivity (mS/cm) D.O. (mg/L) pH ORP (mV) Turbidity (mS/cm) D.O. (mg/L) pH ORP (mV) Turbidity (mS/cm) D.O. (mg/L) pH ORP (mV) ORD (mV)					Nside of case	Other			
Pump: Dedicated Non-dedicated Perstatute Purge Pump	- Inform								
Sampling Data: Time		lation.	Dedicated		Non-dedicated		Peristal	itic	
Purge End Time	The state of the s						Other:		
Magroximate Volume Purged Water Monitoring Conditions: Vol. Purged (gal) Temperature (°C) Conductivity (mS/cm) D.O. (mg/L) pH ORP (mV) ORP (mV) ORD (mV) O			1100	Purge F					
Water Monitoring Conditions: Vol. Purged (gal) Temperature (°C) Conductivity (mS/cm) D.O. (mg/L) pH ORP (mV) Revolution (gal) Temperature (°C) Conductivity (mS/cm) D.O. (mg/L) pH ORP (mV) Revolution (gal) Temperature (°C) Conductivity (mS/cm) D.O. (mg/L) pH ORP (mV) Revolution (gal) Temperature (°C) Conductivity (mS/cm) D.O. (mg/L) pH ORP (mV) Revolution (gal) Temperature (°C) Temperature (°			ad .	1-5	M				
Time									7
Time	Water Monitor	Vol. Pur	roed roed			1000		(10)	Turbidity
1	Time		Tempera	ture (°C)	Conductivity (mS/cm)		9		(NTU)
135								2	
		. 20							
					0.202	0.86	5,99		11.0
Sampling Data: Time					0.201	0.84	5.96		
Sampling Data: Time			13.4	10				-7	1. 2
Time									
Total Metals RCRA 8 or Priority Total Organic Carbon Priority Pollutants Sampling Notes: Cast Dec Cast De		a:	11152	Sample	e ID	13172	-01-02	1722	
Total Metals RCRA 8 or Priority Pollutants Pissolved Metals Sampling Notes: PC E TCE CISIL DE VINY I Chlorical Conductivity (mS/cm) D. 3.3 QA/QC Volumes Teflon Bailer Teflon Bailer Preflon Bailer Analyses to be Performed: RSK-175 (methane, ethene) Qother Voltage (Gal/ft) 1 inch		-1)	3.5						
Conductivity (mS/cm) D.O. (mg/L) pH Coos ORP (mV) Turbidity (NTU) Sampling Device: PVC Bailer Analyses to be Performed: Volatile Organics VOCs 8260 SVOCs by 8270C Sulfate 375.2 RSK-175 (methane, ethane, ethane, ethane, ethane, ethane, ethane, ethane, ethane, ethane, ethane) Dissolved Metals Priority Priority Priority Pollutants PRE TOE CISIL DE Umyl Chloride Clear and oder Or: (total depth(ft) - DTW(ft)) x Well Dia ² x 0.6 Or: (total depth(ft) - DTW(ft)) x Well Dia ² x 0.6									
D.O. (mg/L) D.O.									
PH		AS/CIII)	V						
ORP (mV) Turbidity (NTU) Sampling Device: PVC Bailer Analyses to be Performed: Volatile Organics VOCs 8260 SVOCs by 8270C Sulfate 375.2 RSK-175 (methane, ethane, ethane) Total Metals RCRA 8 or Priority Pollutants Priority Pollutants Priority Pollutants RCRA 8 or Priority Pollutants Priority Pollutants RCRA 8 or Priority Pollutants Analyses to be Performed: VOCs 8260 SVOCs by 8270C RSK-175 (methane, ethane) Other Well Diameter Well Volume (Gal/ft) 1 inch 0.041 2 inch 0.163 4 inch 0.653 6 inch 1.469 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.05									
Turbidity (NTU) Sampling Device: PVC Bailer			-9						
Sampling Device: PVC Bailer SS Bailer Dedicated Pump Teflon Bailer Analyses to be Performed: Volatile Organics VOCs 8260 SVOCs by 8270C Sulfate 375.2 RSK-175 (methane, ethane, ethane, ethane, ethane, ethane, ethane) Priority Total Organic Carbon Priority Pollutants Pollutants PCE, TCE, CISIL DCE, Unsyl Chloride Clear and oder Teflon Bailer Total Organic Sulfate 375.2 RSK-175 (methane, ethane) Other Well Diameter Well Volume (Gal/ft) 1 inch 0.041 2 inch 0.163 4 inch 0.653 6 inch 1.469 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65		W T\	1						
PVC Bailer SS Bailer Dedicated Pump Tetlon Bailer Analyses to be Performed: Volatile Organics VOCs 8260 SVOCs by 8270C Sulfate 375.2 RSK-175 (methane, ethane, etha									
Analyses to be Performed: Volatile Organics		ICC.	SS Bailer		Dedicated Pump		Teflor	1 Bailer	1. /-10
Volatile Organics VOCs 8260 SVOCs by 8270C RSK-175 (methane, ethane, ethane, ethane, ethane, ethane, ethane) Dissolved Metals Sampling Notes: Well Diameter Well Volume (Gal/ft) 1 inch 0.041 2 inch 0.163 4 inch 0.653 6 inch 1.469 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.6	L	Darformer							
Total Metals RCRA 8 or Priority Dissolved Metals Sampling Notes: PETAL CISIL DE C		1	VOCs 8260	SVOC	s by 8270C	Su ¹	Ifate 375.2		
Dissolved Metals Priority Priority Pollutants Sampling Notes: PETALE CISIL DEE DIMPLEMOTION CLEAR & CHARACT TOTAL Organic Carbon Well Diameter Well Volume (Gal/ft) 1 inch 0.041 2 inch 0.163 4 inch 0.653 6 inch 1.469 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.6	Volatile Organi	ICS /	Y 003 0200	D	1 by 02100	RS	SK-175 (methan	ne,	
Dissolved Metals Priority Pollutants Priority Pollutants Priority Pollutants Total Organic Carbon Well Diameter Well Volume (Gal/ft) 1 inch 0.041 2 inch 0.163 4 inch 0.653 6 inch 1.469 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.6	Total Metals		RCRA 8 or			eth	iane, ethene)		
Dissolved Metals Pollutants 415.1 Other	101111111111111111111111111111111111111		Priority)rganic Carbon	X O			
Sampling Notes: PCE, TCE, Cist DCE, Unyl Chloride Diameter Well Volume (Gal/ft) 1 inch 0.041 2 inch 0.163 4 inch 0.653 6 inch 1.469 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.65 Or:(total depth(ft) - DTW(ft))				415.1					
P(E,TCE, Cist2 DCE, Uny 1 Chloride 1 inch 0.041 2 inch 0.163 4 inch 0.653 6 inch 1.469 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.0	~ "" BY 4	4	- AZILIZZI					Volume (Gal	I/A)
2 inch 0.163 4 inch 0.653 6 inch 1.469 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.0	DE TEF	E CISTLI	DCE , Unylow	lorid+		Contract of the Contract of th			111)
4 inch 0.653 6 inch 1.469 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.6	10-1	, , -	Contraction of the second						
6 inch 1.469 Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.6	clair no o	ider				1			
Or:(total depth(ft) - DTW(ft)) x Well Dia ² x 0.0						-			
Or:(total depth(ft) - DI W(ft)) x well Dia x 0.5 = 1 Well Volume	A.					0.000			2-2-00
= I well volume						Or:(tota	l depth(ft) - DI	(ft)) x we	Il Dia x v.v
						= 1 w	ell volume		- Any

Well Sampling Data Sheet Renton 12022 Site Location Date RL Well ID Samplers DVC Constructed Depth Casing Material good Condition of Well Casing Diameter Field Measurements: 10 05 Depth Measured From: Time Top of access port 5.38 Depth to Water Mark on PVC casing X Mark of protective casing Other **Purging Information:** 02 Peristaltic Non-dedicated Dedicated Pump: Other: Stainless Steel PVC Bailer: Purge End Time Purge Start Time Approximate Volume Purged **Water Monitoring Conditions:** Turbidity Vol. Purged ORP (mV) D.O. (mg/L) pH (NTU) Conductivity (mS/cm) Temperature (°C) (gal) Time -83 625 6.57 0,365 1.14 0.25 1011 6.58 -105 000 0.326 0.0 1,60 0.5 1017 -103 1000 6.55 0.348 0.0 1.93 1.0 1622 6.54 -100 1000 12.29 0.364 0.0 1027 1.5 1000 6.52 -98 0.0 0.3 81 12.61 7.1) 1032 Sampling Data: GW-2109-021722 1035 Sample ID Time 2.25 **Duplicates** Vol. Purged (gal) 12.38 **OA/QC Volumes** Temperature (°C) 0.381 Conductivity (mS/cm) 0.0 D.O. (mg/L) 6.51 pH -97 ORP (mV) 70 Turbidity (NTU) Sampling Device: Teflon Bailer Dedicated Pump SS Bailer **PVC** Bailer Analyses to be Performed: Sulfate 375.2 SVOCs by 8270C VOCs 8260 Volatile Organics X RSK-175 (methane, ethane, ethene) RCRA 8 or SVOCs by 8270C/SIM Total Metals **Total Organic Carbon** Priority Other **Pollutants** 415.1 Dissolved Metals Well Sampling Notes: Very Billy first gailor Well Volume (Gal/ft) Diameter 0.041 1 inch TLE, CISTIDCE, VC, Benzene 0.163 2 inch 0.653 4 inch 1.469 6 inch Or:(total depth(ft) - DTW(ft)) x Well Dia2 x 0.0408 1 Well Volume

Well Sampling Data Sheet

Date	7	117	1	27		Site Location		4-78	179		
Samplers		TN			***	Well ID		B78-	-16		
Casing Materi	al		.N.	3"512	~/	Constructed Depth		25	T.		
Casing Diame				ast		Condition of Well		ok			
Field Measur			-	<u></u>							
Time	chichts	•	101	0		Depth Measured From:					
Depth to Wate	F		41				Top	of access p	ort		
Depui to wate	.1			C. C			Ma	rk on PVC	casing		
							-	rk of protec		ig	
						No ide of case	Oth				
						10510001	0 000				
Purging Info	mation	1:	Dedic	i		Non-dedicated			Peristal	tic	
Pump:			-			Stainless Steel			Other:		
Bailer:			PVC		D. F.				Other.	1	
Purge Start Ti					Purge E	nd Time					
Approximate `						- Lander].			
Water Monit											Turbidity
T.		l. Purge	d ,	Temperat	ure (°C)	Conductivity (mS/cm)	D.	O. (mg/L)	pН	ORP (mV)	(NTU)
Time	(ga				me (C)			.147	5.84	89	499
1015)	-	12.68		0.591		22	5.85	14	140
021	10	,5				0.558		-200.82	5.78	-2	135
026	1.			12.94			13	70	5.70	-21	112
031	12	0		13.09		0 555	-		5.89	-33	84.9
036	3.	.0		13.14		0.554	0.	65	0101	33	21.1
							+				
	_		-	unio i i i i i i i i i i i i i i i i i i			-				
			-				-				
							-				
									L		
Sampling Da	ta:		1 604		T . 1	TD.	12-	18-110-1	37177	7	
Time			104	-	Sample		12	18-16-1	1-27	Care	
Vol. Purged (4.0)	Duplica		11	upol-oi	1766		
Temperature ((°C)		13		QA/QC	Volumes	1				
Conductivity	(mS/cm	1)	0.5	>3							
D.O. (mg/L)			0.5	7							
pН			5.9	7							
ORP (mV)				1							
Turbidity (N'	TU)		101.	3							
Sampling De	The second second								1		
PVC Bailer			SSE	Bailer		Dedicated Pump			Teflon	Bailer	
Analyses to b	e Perfe	ormed:									
Volatile Orga		X	VO	Cs 8260	SVOCs	by 8270C		Sulfate			
, oladio Oiga		100						RSK-175		ie,	
Total Metals			_	RA 8 or		by 8270C/SIM		ethane, e	thene)		
			Prior			rganic Carbon	X	0.1			
Dissolved Me			Pollu	itants	415.1		1	Other			
Sampling No								Well Diameter	Wall	Volume (Gal/	ft)
TCE, cis	1200	F,UC	7	Benze	re				AA CII	0.041	16)
		2021	all .	St Course	steel	case. slight		1 inch			
Red partie	inlatt.	mays	re	21 1:010	,			2 inch		0.163	
gadneing c	dor.							4 inch		0.653	
								6 inch		1.469	
							0	"(total denti	n(ft) - DT	W(ft)) x Well	Dia2 x 0.04
								1 Well Vo		()/	

Well Sampling Data Sheet

			- V	en Sampling Data Sheet		tori		.1-2	-13
Date	11.	7 / 22		Site Location	-	12-	11111	Húc L	- 1
Samplers		N 26		Well ID	-	##	1300	2-0	
Casing Materia		PUL		Constructed Depth	-	OK.		- Taring	
Casing Diamete		211		Condition of Well					
Field Measure									
Гіте		OPPO		Depth Measured From:					
Depth to Water		2-117				of access p			
F 10.535					-	on PVC			
-	1	The same of	7			of protect	tive casin	g	
	T.D.	745X0077	1	Mairefease	Othe	r			
Purging Inform	mation:	1000							
Pump:		Dedicated		Non-dedicated			Perista	tic	
Bailer:		PVC		Stainless Steel			Other:		
Purge Start Tin	ne		Purge Er	Purge End Time					
Approximate V									
Water Monito									
Water Would	Vol. Purge	ed		Value and the same		, IF \		ODD (=-V)	Turbidity
Time	(gal)	Temperat		Conductivity (mS/cm)		. (mg/L)	pH 6.33	ORP (mV)	(NTU) 5 3()
2901	0	11-3		1,64	1.				171
0906	(7.5	11.75	>	1.18	De	17	6.33	-147	
0911	1.0	9.06)	0.246		(Bulbies)	6.30	- 35	213
0921	1.5	9.50	1	0.475	1.3		6.18	-77	106
0930	2.5	10.18	3	1.02	0.	33	6.33	-105	1/6
Sampling Dat	a:	0933	Sample	ID	Rac	3-01-	0217	22	
Time	-1\	7.55	-		Det				
Vol. Purged (g			Duplicates QA/QC Volumes						
Temperature (10.12							
Conductivity (mS/cm)	1.08 8.07 **	my his	les					
D.O. (mg/L)			-						
рН		6-26	(0293						
ORP (mV)			-					1 miles	
Turbidity (NT		124							
Sampling Dev	vice:	00 D "	T	Dadiasted Duma			Teflor	Bailer	
PVC Bailer		SS Bailer	1	Dedicated Pump			101101	1741101	
Analyses to b			ONICC	1 9270C		Sulfate	375 2		
Volatile Organ	nics X	VOCs 8260	SVOCs	by 8270C	-	RSK-17		ne	
m + 115 + 1		RCRA 8 or	SVOC	by 8270C/SIM		ethane, e		10,	
Total Metals		Priority		rganic Carbon	11				
Dissolved Me	tals	Pollutants	415.1		X	Other			
Sampling No		1.5 6.000.000.000				Well		W. 1. (O. 1)	(0)
Married Property Control						iameter	Well	Volume (Gal/	π)
Voonly.	to: vous					1 inch		0.041	

0.163

0.653

1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia² x 0.0408 = 1 Well Volume

2 inch

4 inch 6 inch

Attachment B: Laboratory Data Packages



12/16/2021 Mr. Justin Neste CALIBRE, Environmental Technology Solutions 20926 Pugh Rd NE

Isnica Fran

Poulsbo WA 98370

Project Name: Renton 5-09

Project #:

Workorder #: 2112107

Dear Mr. Justin Neste

The following report includes the data for the above referenced project for sample(s) received on 12/3/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Monica Tran at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Monica Tran

Project Manager



WORK ORDER #: 2112107

Work Order Summary

CLIENT: Mr. Justin Neste BILL TO: Accounts Payable

> CALIBRE, Environmental Technology **Eurofins Lancaster Laboratories**

> > DECEIDT

TETNIAT

Solutions

Environmental, LLC 20926 Pugh Rd NE 2425 New Holland Pike Poulsbo, WA 98370 Lancaster, PA 17605-2425

PHONE: 360-981-5606 **P.O.** #

FAX: PROJECT # Renton 5-09

DATE RECEIVED: 12/03/2021 **CONTACT:** Monica Tran

DATE COMPLETED: 12/16/2021

			RECEIPT	FINAL
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.	PRESSURE
01A	SVE IN-120221	TO-15	3.5 "Hg	10 psi
02A	SVE 3-120221	TO-15	2.4 "Hg	10 psi
03A	Lab Blank	TO-15	NA	NA
04A	CCV	TO-15	NA	NA
05A	LCS	TO-15	NA	NA
05AA	LCSD	TO-15	NA	NA

	the	ide /	Rayes		
CERTIFIED BY:	0	0	0	DATE:	12/16/21

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP - E87680, LA NELAP - 02089, NH NELAP - 209221, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-21-17, UT NELAP - CA009332021-13, VA NELAP - 10615, WA NELAP - C935

> Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) Accreditation number: CA300005-015, Effective date: 10/18/2021, Expiration date: 10/17/2022.

Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE EPA Method TO-15 CALIBRE, Environmental Technology Solutions Workorder# 2112107

Two 1 Liter Summa Canister samples were received on December 03, 2021. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.
 - M Reported value may be biased due to apparent matrix interferences.
 - CN See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



Summary of Detected Compounds EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SVE IN-120221

Lab ID#: 2112107-01A

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
cis-1,2-Dichloroethene	0.95	1.7	3.8	6.6
Trichloroethene	0.95	3.3	5.1	18
Tetrachloroethene	0.95	39	6.4	260

Client Sample ID: SVE 3-120221

Lab ID#: 2112107-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.92	2.8	3.6	11
Trichloroethene	0.92	5.7	4.9	31
Tetrachloroethene	0.92	70	6.2	480



Client Sample ID: SVE IN-120221 Lab ID#: 2112107-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a121308 Date of Collection: 12/2/21 09:12:00
Dil. Factor: 1.90 Date of Analysis: 12/13/21 02:59 PM

ppbv) (ug/ Detected 2 Detected 7 Detected 3 Detected 2 Detected 3 Detected 1 Detected 3 Detected 3 Detected 3 Detected 3 Detected 4 1.7 3 Detected 4 Detected 5 Detected 3	Limit /m3) (ug/m3) 20 Not Detect 24 Not Detect 28 Not Detect 29 Not Detect 20 Not Detect 21 Not Detect 22 Not Detect 23 Not Detect 24 Not Detect 25 Not Detect 26 Not Detect 27 Not Detect 28 Not Detect 29 Not Detect 20 Not Detect 20 Not Detect 21 Not Detect 22 Not Detect 23 Not Detect 24 Not Detect 25 Not Detect 26 Not Detect 27 Not Detect 28 Not Detect 29 Not Detect 30 Not Detect 31 Not Detect 32 Not Detect 33 Not Detect 34 Not Detect 35 Not Detect 36 Not Detect 36 Not Detect 37 Not Detect 38 Not Detect 39 Not Detect 40 Not Detect 41 Not Detect 41 Not Detect 42 Not Detect 43 Not Detect 44 Not Detect 45 Not Detect 46 Not Detect 46 Not Detect 47 Not Detect 48 Not Det
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Detected 3 Detected 2 Detected 1 Detected 3 Detected 3 Detected 3 Detected 1 1.7 3 Detected 4 Detected 5 Detected 3	Not Detect
Detected 2 Detected 1 Detected 3 Detected 3 Detected 3 Detected 1 1.7 3 Detected 4 Detected 5 Detected 3	Not Detect
Detected 1 Detected 3 Detected 3 Detected 3 Detected 1 1.7 3 Detected 4 Detected 5 Detected 3	Not Detect
Detected 3 Detected 3 Detected 3 Detected 1 1.7 3 Detected 4 Detected 5 Detected 3	Not Detect
Detected 3 Detected 3 Detected 3 Detected 1 1.7 3 Detected 4 Detected 5 Detected 3	Not Detect
Detected 3 Detected 3 Detected 1 1.7 3 Detected 4 Detected 5 Detected 3	Not Detect
Detected 3 Detected 1 1.7 3 Detected 4 Detected 5 Detected 3	Not Detect Not Detect S.8 6.6 Not Detect Not Detect Not Detect Not Detect Not Detect
Detected 1 1.7 3 Detected 4 Detected 5 Detected 3	Not Detect 6.8 6.6 6.6 Not Detect 6.2 Not Detect 6.0 Not Detect 6.0 Not Detect
1.7 3 Detected 4 Detected 5 Detected 3	6.8 6.6 6.6 Not Detect 6.2 Not Detect 6.0 Not Detect
Detected 4 Detected 5 Detected 3	Not Detect Not Detect Not Detect Not Detect
Detected 5 Detected 3	Not Detect Not Detect
Detected 3	Not Detect
3.3	5.1 18
Detected 3	.6 Not Detect
Detected 5	.2 Not Detect
39 6.	5.4 260
Detected 4	.4 Not Detect
Detected 4	.1 Not Detect
Detected 4	.1 Not Detect
Detected 4	.1 Not Detect
Detected 4	.0 Not Detect
Detected 4	.7 Not Detect
Detected 39	90 Not Detect
Detected 1	16 Not Detect
Detected 1	Not Detect
Detected 1	Not Detect
Detected 1	1 Not Detect
	Not Detect
	Not Detect
Detected 2	Not Detect
Detected 2 Detected 2	
Detected 2 Detected 2	21 Not Detect
ttttt	t Detected

Container Type: 1 Liter Summa Canister

Surrogates %Recovery Limits



Client Sample ID: SVE IN-120221 Lab ID#: 2112107-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a121308 Date of Collection: 12/2/21 09:12:00
Dil. Factor: 1.90 Date of Analysis: 12/13/21 02:59 PM

%Recovery	Method Limits
/orcecover y	Lillits
99	70-130
103	70-130
99	70-130
	103



Client Sample ID: SVE 3-120221 Lab ID#: 2112107-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a121309 Date of Collection: 12/2/21 09:36:00
Dil. Factor: 1.83 Date of Analysis: 12/13/21 03:26 PM

DII. Factor.	1.83	Date	Date of Analysis: 12/13/21 03:26 PW			
Compound	Rpt. Limit	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)		
Compound	(ppbv)	(bhna)		(ug/iiis)		
Chloromethane	9.2	Not Detected	19	Not Detected		
Vinyl Chloride	0.92	Not Detected	2.3	Not Detected		
Freon 113	0.92	Not Detected	7.0	Not Detected		
1,1-Dichloroethene	0.92	Not Detected	3.6	Not Detected		
Acetone	9.2	Not Detected	22	Not Detected		
Carbon Disulfide	3.7	Not Detected	11	Not Detected		
Methylene Chloride	9.2	Not Detected	32	Not Detected		
trans-1,2-Dichloroethene	0.92	Not Detected	3.6	Not Detected		
Hexane	0.92	Not Detected	3.2	Not Detected		
1,1-Dichloroethane	0.92	Not Detected	3.7	Not Detected		
2-Butanone (Methyl Ethyl Ketone)	3.7	Not Detected	11	Not Detected		
cis-1,2-Dichloroethene	0.92	2.8	3.6	11		
Chloroform	0.92	Not Detected	4.5	Not Detected		
1,1,1-Trichloroethane	0.92	Not Detected	5.0	Not Detected		
Benzene	0.92	Not Detected	2.9	Not Detected		
Trichloroethene	0.92	5.7	4.9	31		
Toluene	0.92	Not Detected	3.4	Not Detected		
1,1,2-Trichloroethane	0.92	Not Detected	5.0	Not Detected		
Tetrachloroethene	0.92	70	6.2	480		
Chlorobenzene	0.92	Not Detected	4.2	Not Detected		
Ethyl Benzene	0.92	Not Detected	4.0	Not Detected		
m,p-Xylene	0.92	Not Detected	4.0	Not Detected		
o-Xylene	0.92	Not Detected	4.0	Not Detected		
Styrene	0.92	Not Detected	3.9	Not Detected		
Cumene	0.92	Not Detected	4.5	Not Detected		
Propylbenzene	0.92	Not Detected	4.5	Not Detected		
1,3,5-Trimethylbenzene	0.92	Not Detected	4.5	Not Detected		
1,2,4-Trimethylbenzene	0.92	Not Detected	4.5	Not Detected		
TPH ref. to Gasoline (MW=100)	92	Not Detected	370	Not Detected		
Acetonitrile	9.2	Not Detected	15	Not Detected		
Vinyl Acetate	3.7	Not Detected	13	Not Detected		
Octane	3.7	Not Detected	17	Not Detected		
Pentane	3.7	Not Detected	11	Not Detected		
Butylbenzene	3.7	Not Detected	20	Not Detected		
Decane	3.7	Not Detected	21	Not Detected		
Dodecane	9.2	Not Detected	64	Not Detected		
sec-Butylbenzene	3.7	Not Detected	20	Not Detected		
p-Cymene	3.7	Not Detected	20	Not Detected		
p-Cymene	3.1	NOI DEIECIEU	20	NOT DETECTED		

Container Type: 1 Liter Summa Canister



Client Sample ID: SVE 3-120221 Lab ID#: 2112107-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a121309 Date of Collection: 12/2/21 09:36:00
Dil. Factor: 1.83 Date of Analysis: 12/13/21 03:26 PM

Suma mataa	0/ Danasans	wetnod
Surrogates	%Recovery	Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	101	70-130



Client Sample ID: Lab Blank Lab ID#: 2112107-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a121307a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/13/21 12:30 PM

Compound	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound		(mmh)	(/m. 2)	
	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
TPH ref. to Gasoline (MW=100)	50	Not Detected	200	Not Detected
Acetonitrile	5.0	Not Detected	8.4	Not Detected
Vinyl Acetate	2.0	Not Detected	7.0	Not Detected
Octane	2.0	Not Detected	9.3	Not Detected
Pentane	2.0	Not Detected	5.9	Not Detected
Butylbenzene	2.0	Not Detected	11	Not Detected
Decane	2.0	Not Detected	12	Not Detected
Dodecane	5.0	Not Detected	35	Not Detected
sec-Butylbenzene	2.0	Not Detected	11	Not Detected
p-Cymene	2.0	Not Detected	11	Not Detected

Container Type: NA - Not Applicable

Surrogates %Recovery Limits



Client Sample ID: Lab Blank Lab ID#: 2112107-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a121307a Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 12/13/21 12:30 PM

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	100	70-130



Client Sample ID: CCV Lab ID#: 2112107-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a121302 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 12/13/21 09:38 AM

Compound	%Recovery
Chloromethane	89
Vinyl Chloride	94
Freon 113	92
1,1-Dichloroethene	95
Acetone	97
Carbon Disulfide	94
Methylene Chloride	97
trans-1,2-Dichloroethene	92
Hexane	96
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	97
cis-1,2-Dichloroethene	98
Chloroform	97
1,1,1-Trichloroethane	93
Benzene	92
Trichloroethene	95
Toluene	94
1,1,2-Trichloroethane	92
Tetrachloroethene	93
Chlorobenzene	96
Ethyl Benzene	101
m,p-Xylene	101
o-Xylene	101
Styrene	102
Cumene	99
Propylbenzene	96
1,3,5-Trimethylbenzene	96
1,2,4-Trimethylbenzene	98
TPH ref. to Gasoline (MW=100)	100
Acetonitrile	95
Vinyl Acetate	104
Octane	94
Pentane	96
Butylbenzene	97
Decane	97
Dodecane	92
sec-Butylbenzene	99
p-Cymene	99
• •	

Container Type: NA - Not Applicable

Surrogates Method
Limits



Client Sample ID: CCV Lab ID#: 2112107-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a121302 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 12/13/21 09:38 AM

		Method
Surrogates	%Recovery	Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	101	70-130



Client Sample ID: LCS Lab ID#: 2112107-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a121303 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 12/13/21 10:03 AM

		Method
Compound	%Recovery	Limits
Chloromethane	89	70-130
Vinyl Chloride	91	70-130
Freon 113	91	70-130
1,1-Dichloroethene	94	70-130
Acetone	96	70-130
Carbon Disulfide	94	70-130
Methylene Chloride	93	70-130
trans-1,2-Dichloroethene	93	70-130
Hexane	94	70-130
1,1-Dichloroethane	96	70-130
2-Butanone (Methyl Ethyl Ketone)	93	70-130
cis-1,2-Dichloroethene	97	70-130
Chloroform	93	70-130
1,1,1-Trichloroethane	93	70-130
Benzene	94	70-130
Trichloroethene	95	70-130
Toluene	93	70-130
1,1,2-Trichloroethane	94	70-130
Tetrachloroethene	92	70-130
Chlorobenzene	93	70-130
Ethyl Benzene	100	70-130
m,p-Xylene	98	70-130
o-Xylene	96	70-130
Styrene	99	70-130
Cumene	96	70-130
Propylbenzene	96	70-130
1,3,5-Trimethylbenzene	93	70-130
1,2,4-Trimethylbenzene	97	70-130
TPH ref. to Gasoline (MW=100)	Not Spiked	
Acetonitrile	Not Spiked	
Vinyl Acetate	119	60-140
Octane	Not Spiked	
Pentane	Not Spiked	
Butylbenzene	Not Spiked	
Decane	Not Spiked	
Dodecane	Not Spiked	
sec-Butylbenzene	Not Spiked	
p-Cymene	Not Spiked	

Container Type: NA - Not Applicable

Surrogates Method Limits



4-Bromofluorobenzene

Client Sample ID: LCS Lab ID#: 2112107-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a121303 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 12/13/21 10:03 AM

 Surrogates
 %Recovery
 Limits

 Toluene-d8
 99
 70-130

 1,2-Dichloroethane-d4
 101
 70-130

98

70-130



Client Sample ID: LCSD Lab ID#: 2112107-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a121304 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 12/13/21 10:29 AM

Compound	%Recovery	Method Limits
Chloromethane Vinyl Chlorido	89 89	70-130 70-130
Vinyl Chloride	92	70-130 70-130
Freon 113	92 95	
1,1-Dichloroethene		70-130
Acetone	96 	70-130
Carbon Disulfide	97	70-130
Methylene Chloride	95	70-130
trans-1,2-Dichloroethene	97	70-130
Hexane	94	70-130
1,1-Dichloroethane	96 	70-130
2-Butanone (Methyl Ethyl Ketone)	95	70-130
cis-1,2-Dichloroethene	100	70-130
Chloroform	95	70-130
1,1,1-Trichloroethane	95	70-130
Benzene	93	70-130
Trichloroethene	95	70-130
Toluene	93	70-130
1,1,2-Trichloroethane	96	70-130
Tetrachloroethene	93	70-130
Chlorobenzene	95	70-130
Ethyl Benzene	102	70-130
m,p-Xylene	99	70-130
o-Xylene	100	70-130
Styrene	101	70-130
Cumene	98	70-130
	97	70-130
1,3,5-Trimethylbenzene	95	70-130
1,2,4-Trimethylbenzene	99	70-130
TPH ref. to Gasoline (MW=100)	Not Spiked	
Acetonitrile	Not Spiked	
	 122	60-140
Octane	Not Spiked	
Pentane	Not Spiked	
Butylbenzene	Not Spiked	
Decane	Not Spiked	
Dodecane	Not Spiked	
sec-Butylbenzene	Not Spiked	
p-Cymene	Not Spiked	

Container Type: NA - Not Applicable

Surrogates Method Limits



Client Sample ID: LCSD Lab ID#: 2112107-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a121304 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 12/13/21 10:29 AM

C	0/ Bassayamı	Method
Surrogates	%Recovery	Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	100	70-130



2/8/2022 Mr. Justin Neste CALIBRE, Environmental Technology Solutions 20926 Pugh Rd NE

Isnica Fran

Poulsbo WA 98370

Project Name: Renton 5-09

Project #:

Workorder #: 2201681

Dear Mr. Justin Neste

The following report includes the data for the above referenced project for sample(s) received on 1/26/2022 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Monica Tran at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Monica Tran

Project Manager



WORK ORDER #: 2201681

Work Order Summary

CLIENT: Mr. Justin Neste BILL TO: Accounts Payable

> CALIBRE, Environmental Technology **Eurofins Lancaster Laboratories**

Solutions

Environmental, LLC 20926 Pugh Rd NE 2425 New Holland Pike Poulsbo, WA 98370 Lancaster, PA 17605-2425

PHONE: 360-981-5606 **P.O.** #

FAX: PROJECT # Renton 5-09

DATE RECEIVED: 01/26/2022 **CONTACT:** Monica Tran

DATE COMPLETED: 02/08/2022

			RECEIPT	FINAL
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.	PRESSURE
01A	SVE3-012422	TO-15	1.2 "Hg	10 psi
02A	Influent-012422	TO-15	0.3 psi	9.7 psi
03A	Inflow-012522	TO-15	3.7 "Hg	9.7 psi
04A	SVE3-012522	TO-15	4.3 "Hg	9.6 psi
05A	Lab Blank	TO-15	NA	NA
06A	CCV	TO-15	NA	NA
07A	LCS	TO-15	NA	NA
07AA	LCSD	TO-15	NA	NA

	the	ide 7	Payer		
CERTIFIED BY:			0	DATE:	02/08/22

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP - E87680, LA NELAP - 02089, NH NELAP - 209221, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-21-17, UT NELAP - CA009332021-13, VA NELAP - 10615, WA NELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) Accreditation number: CA300005-015, Effective date: 10/18/2021, Expiration date: 10/17/2022.

Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE EPA Method TO-15 CALIBRE, Environmental Technology Solutions Workorder# 2201681

Four 1 Liter Summa Canister samples were received on January 26, 2022. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

The Chain of Custody (COC) information for sample SVE3-012422 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.
 - M Reported value may be biased due to apparent matrix interferences.
 - CN See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Summary of Detected Compounds EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SVE3-012422

Lab ID#: 2201681-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)	
cis-1,2-Dichloroethene	0.88	2.8	3.5	11	
1,1,1-Trichloroethane	0.88	3.1	4.8	17	
Trichloroethene	0.88	8.9	4.7	48	
Tetrachloroethene	0.88	110	5.9	740	

Client Sample ID: Influent-012422

Lab ID#: 2201681-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.82	1.6	3.2	6.5
1,1,1-Trichloroethane	0.82	1.6	4.4	8.7
Trichloroethene	0.82	4.9	4.4	26
Tetrachloroethene	0.82	58	5.5	400

Client Sample ID: Inflow-012522

Lab ID#: 2201681-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.94	2.2	3.7	8.6
1,1,1-Trichloroethane	0.94	1.2	5.2	6.3
Trichloroethene	0.94	5.1	5.1	27
Tetrachloroethene	0.94	71	6.4	480

Client Sample ID: SVE3-012522

Lab ID#: 2201681-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.96	3.2	3.8	13
1,1,1-Trichloroethane	0.96	2.0	5.3	11
Trichloroethene	0.96	7.7	5.2	41
Tetrachloroethene	0.96	120	6.5	810



Client Sample ID: SVE3-012422 Lab ID#: 2201681-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: p020711 Date of Collection: 1/24/22 11:44:00 AM Dil. Factor: 1.75 Date of Analysis: 2/7/22 04:54 PM

Compound Chloromethane Vinyl Chloride Freon 113 1,1-Dichloroethene Acetone	Rpt. Limit (ppbv) 8.8 0.88 0.88 0.88 8.8 3.5 8.8	Amount (ppbv) Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected	Rpt. Limit (ug/m3) 18 2.2 6.7 3.5 21	Amount (ug/m3) Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected
Vinyl Chloride Freon 113 1,1-Dichloroethene	0.88 0.88 0.88 8.8 3.5	Not Detected Not Detected Not Detected Not Detected	2.2 6.7 3.5 21	Not Detected Not Detected Not Detected
Freon 113 1,1-Dichloroethene	0.88 0.88 8.8 3.5	Not Detected Not Detected Not Detected	6.7 3.5 21	Not Detected Not Detected
1,1-Dichloroethene	0.88 8.8 3.5	Not Detected Not Detected	3.5 21	Not Detected
•	8.8 3.5	Not Detected	21	
Acetone	3.5			Not Detected
		Not Detected		
Carbon Disulfide	8.8		11	Not Detected
Methylene Chloride		Not Detected	30	Not Detected
trans-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Hexane	0.88	Not Detected	3.1	Not Detected
1,1-Dichloroethane	0.88	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.5	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	0.88	2.8	3.5	11
Chloroform	0.88	Not Detected	4.3	Not Detected
1,1,1-Trichloroethane	0.88	3.1	4.8	17
Benzene	0.88	Not Detected	2.8	Not Detected
Trichloroethene	0.88	8.9	4.7	48
Toluene	0.88	Not Detected	3.3	Not Detected
1,1,2-Trichloroethane	0.88	Not Detected	4.8	Not Detected
Tetrachloroethene	0.88	110	5.9	740
Chlorobenzene	0.88	Not Detected	4.0	Not Detected
Ethyl Benzene	0.88	Not Detected	3.8	Not Detected
m,p-Xylene	0.88	Not Detected	3.8	Not Detected
o-Xylene	0.88	Not Detected	3.8	Not Detected
Styrene	0.88	Not Detected	3.7	Not Detected
Cumene	0.88	Not Detected	4.3	Not Detected
Propylbenzene	0.88	Not Detected	4.3	Not Detected
1,3,5-Trimethylbenzene	0.88	Not Detected	4.3	Not Detected
1,2,4-Trimethylbenzene	0.88	Not Detected	4.3	Not Detected
TPH ref. to Gasoline (MW=100)	88	Not Detected	360	Not Detected
Acetonitrile	8.8	Not Detected	15	Not Detected
Vinyl Acetate	3.5	Not Detected	12	Not Detected
Octane	3.5	Not Detected	16	Not Detected
Pentane	3.5	Not Detected	10	Not Detected
Butylbenzene	3.5	Not Detected	19	Not Detected
Decane	3.5	Not Detected	20	Not Detected
Dodecane	8.8	Not Detected	61	Not Detected
sec-Butylbenzene	3.5	Not Detected	19	Not Detected
p-Cymene	3.5	Not Detected	19	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates Method Limits



Client Sample ID: SVE3-012422 Lab ID#: 2201681-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: p020711 Date of Collection: 1/24/22 11:44:00 AM
Dil. Factor: 1.75 Date of Analysis: 2/7/22 04:54 PM

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	100	70-130	
1,2-Dichloroethane-d4	97	70-130	
4-Bromofluorobenzene	108	70-130	



Client Sample ID: Influent-012422 Lab ID#: 2201681-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: p020712 Date of Collection: 1/24/22 11:49:00 AM Dil. Factor: 1.63 Date of Analysis: 2/7/22 05:23 PM

			· · · · · · · · · · · · · · · · · · ·	
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
Chloromethane	8.2	Not Detected	17	Not Detected
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Freon 113	0.82	Not Detected	6.2	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Acetone	8.2	Not Detected	19	Not Detected
Carbon Disulfide	3.3	Not Detected	10	Not Detected
Methylene Chloride	8.2	Not Detected	28	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.3	Not Detected	9.6	Not Detected
cis-1,2-Dichloroethene	0.82	1.6	3.2	6.5
Chloroform	0.82	Not Detected	4.0	Not Detected
1,1,1-Trichloroethane	0.82	1.6	4.4	8.7
Benzene	0.82	Not Detected	2.6	Not Detected
Trichloroethene	0.82	4.9	4.4	<u>-</u>
Toluene	0.82	Not Detected	3.1	Not Detected
1,1,2-Trichloroethane	0.82	Not Detected	4.4	Not Detected
Tetrachloroethene	0.82	58	5.5	400
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
Ethyl Benzene	0.82	Not Detected	3.5	Not Detected
m,p-Xylene	0.82	Not Detected	3.5	Not Detected
o-Xylene	0.82	Not Detected	3.5	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
TPH ref. to Gasoline (MW=100)	82	Not Detected	330	Not Detected
Acetonitrile	8.2	Not Detected	14	Not Detected
Vinyl Acetate	3.3	Not Detected	11	Not Detected
Octane	3.3	Not Detected	15	Not Detected
Pentane	3.3	Not Detected	9.6	Not Detected
Butylbenzene	3.3	Not Detected	18	Not Detected
Decane	3.3	Not Detected	19	Not Detected
Dodecane	8.2	Not Detected	57	Not Detected
sec-Butylbenzene	3.3	Not Detected	18	Not Detected
p-Cymene	3.3	Not Detected	18	Not Detected
• •				

Container Type: 1 Liter Summa Canister

Surrogates Method Limits



Client Sample ID: Influent-012422 Lab ID#: 2201681-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: p020712 Date of Collection: 1/24/22 11:49:00 AM
Dil. Factor: 1.63 Date of Analysis: 2/7/22 05:23 PM

0/8	Wethod	
%Recovery	Limits	
97	70-130	
96	70-130	
108	70-130	
	96	



Client Sample ID: Inflow-012522 Lab ID#: 2201681-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: p020713 Date of Collection: 1/25/22 1:04:00 PM
Dil. Factor: 1.89 Date of Analysis: 2/7/22 05:53 PM

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
Chloromethane	9.4	Not Detected	20	Not Detected
Vinyl Chloride	0.94	Not Detected	2.4	Not Detected
Freon 113	0.94	Not Detected	7.2	Not Detected
1,1-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Acetone	9.4	Not Detected	22	Not Detected
Carbon Disulfide	3.8	Not Detected	12	Not Detected
Methylene Chloride	9.4	Not Detected	33	Not Detected
trans-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Hexane	0.94	Not Detected	3.3	Not Detected
1,1-Dichloroethane	0.94	Not Detected	3.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.8	Not Detected	11	Not Detected
cis-1,2-Dichloroethene	0.94	2.2	3.7	8.6
Chloroform	0.94	Not Detected	4.6	Not Detected
1,1,1-Trichloroethane	0.94	1.2	5.2	6.3
Benzene	0.94	Not Detected	3.0	Not Detected
Trichloroethene	0.94	5.1	5.1	27
Toluene	0.94	Not Detected	3.6	Not Detected
1,1,2-Trichloroethane	0.94	Not Detected	5.2	Not Detected
Tetrachloroethene	0.94	71	6.4	480
Chlorobenzene	0.94	Not Detected	4.4	Not Detected
Ethyl Benzene	0.94	Not Detected	4.1	Not Detected
m,p-Xylene	0.94	Not Detected	4.1	Not Detected
o-Xylene	0.94	Not Detected	4.1	Not Detected
Styrene	0.94	Not Detected	4.0	Not Detected
Cumene	0.94	Not Detected	4.6	Not Detected
Propylbenzene	0.94	Not Detected	4.6	Not Detected
1,3,5-Trimethylbenzene	0.94	Not Detected	4.6	Not Detected
1,2,4-Trimethylbenzene	0.94	Not Detected	4.6	Not Detected
TPH ref. to Gasoline (MW=100)	94	Not Detected	390	Not Detected
Acetonitrile	9.4	Not Detected	16	Not Detected
Vinyl Acetate	3.8	Not Detected	13	Not Detected
Octane	3.8	Not Detected	18	Not Detected
Pentane	3.8	Not Detected	11	Not Detected
Butylbenzene	3.8	Not Detected	21	Not Detected
Decane	3.8	Not Detected	22	Not Detected
Dodecane	9.4	Not Detected	66	Not Detected
sec-Butylbenzene	3.8	Not Detected	21	Not Detected
p-Cymene	3.8	Not Detected	21	Not Detected
F = 7=			- -	

Container Type: 1 Liter Summa Canister

Surrogates Method Limits



Client Sample ID: Inflow-012522 Lab ID#: 2201681-03A

EPA METHOD TO-15 GC/MS FULL SCAN

 File Name:
 p020713
 Date of Collection: 1/25/22 1:04:00 PM

 Dil. Factor:
 1.89
 Date of Analysis: 2/7/22 05:53 PM

	Wethod	
%Recovery	Limits	
101	70-130	
96	70-130	
109	70-130	
	96	



Client Sample ID: SVE3-012522 Lab ID#: 2201681-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: p020714 Date of Collection: 1/25/22 1:10:00 PM Date of Analysis: 2/7/22 06:22 PM

Compound Chloromethane Vinyl Chloride Freon 113 1,1-Dichloroethene Acetone Carbon Disulfide Methylene Chloride trans-1,2-Dichloroethene	9.6 0.96 0.96 0.96 9.6	Amount (ppbv) Not Detected Not Detected Not Detected Not Detected Not Detected	Rpt. Limit (ug/m3) 20 2.5 7.4 3.8	Amount (ug/m3) Not Detected Not Detected Not Detected Not Detected Not Detected
Chloromethane Vinyl Chloride Freon 113 1,1-Dichloroethene Acetone Carbon Disulfide Methylene Chloride	9.6 0.96 0.96 0.96 9.6	Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected	20 2.5 7.4 3.8	Not Detected Not Detected Not Detected
Vinyl Chloride Freon 113 1,1-Dichloroethene Acetone Carbon Disulfide Methylene Chloride	0.96 0.96 0.96 9.6 3.9	Not Detected Not Detected Not Detected Not Detected	2.5 7.4 3.8	Not Detected Not Detected
Freon 113 1,1-Dichloroethene Acetone Carbon Disulfide Methylene Chloride	0.96 0.96 9.6 3.9	Not Detected Not Detected Not Detected	7.4 3.8	Not Detected
1,1-Dichloroethene Acetone Carbon Disulfide Methylene Chloride	0.96 9.6 3.9	Not Detected Not Detected	3.8	
Acetone Carbon Disulfide Methylene Chloride	9.6 3.9	Not Detected		Not Detected
Carbon Disulfide Methylene Chloride	3.9		22	0.00.00
Methylene Chloride			23	Not Detected
	0.0	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	9.6	Not Detected	34	Not Detected
	0.96	Not Detected	3.8	Not Detected
Hexane	0.96	Not Detected	3.4	Not Detected
1,1-Dichloroethane	0.96	Not Detected	3.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.9	Not Detected	11	Not Detected
cis-1,2-Dichloroethene	0.96	3.2	3.8	13
Chloroform	0.96	Not Detected	4.7	Not Detected
1,1,1-Trichloroethane	0.96	2.0	5.3	11
Benzene	0.96	Not Detected	3.1	Not Detected
Trichloroethene	0.96	7.7	5.2	41
Toluene	0.96	Not Detected	3.6	Not Detected
1,1,2-Trichloroethane	0.96	Not Detected	5.3	Not Detected
Tetrachloroethene	0.96	120	6.5	810
Chlorobenzene	0.96	Not Detected	4.4	Not Detected
Ethyl Benzene	0.96	Not Detected	4.2	Not Detected
m,p-Xylene	0.96	Not Detected	4.2	Not Detected
o-Xylene	0.96	Not Detected	4.2	Not Detected
Styrene	0.96	Not Detected	4.1	Not Detected
Cumene	0.96	Not Detected	4.7	Not Detected
Propylbenzene	0.96	Not Detected	4.7	Not Detected
1,3,5-Trimethylbenzene	0.96	Not Detected	4.7	Not Detected
1,2,4-Trimethylbenzene	0.96	Not Detected	4.7	Not Detected
TPH ref. to Gasoline (MW=100)	96	Not Detected	390	Not Detected
Acetonitrile	9.6	Not Detected	16	Not Detected
Vinyl Acetate	3.9	Not Detected	14	Not Detected
Octane	3.9	Not Detected	18	Not Detected
Pentane	3.9	Not Detected	11	Not Detected
Butylbenzene	3.9	Not Detected	21	Not Detected
Decane	3.9	Not Detected	22	Not Detected
Dodecane	9.6	Not Detected	67	Not Detected
sec-Butylbenzene	3.9	Not Detected	21	Not Detected
p-Cymene	3.9	Not Detected	21	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: SVE3-012522 Lab ID#: 2201681-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: p020714 Date of Collection: 1/25/22 1:10:00 PM Dil. Factor: 1.93 Date of Analysis: 2/7/22 06:22 PM

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	100	70-130	
1,2-Dichloroethane-d4	98	70-130	
4-Bromofluorobenzene	109	70-130	



Client Sample ID: Lab Blank Lab ID#: 2201681-05A

File Name: Dil. Factor:	p020706d 1.00	Date of Collection: NA Date of Analysis: 2/7/22 01:09		2 01:09 PM
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detecte
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
TPH ref. to Gasoline (MW=100)	50	Not Detected	200	Not Detected
Acetonitrile	5.0	Not Detected	8.4	Not Detected
Vinyl Acetate	2.0	Not Detected	7.0	Not Detected
Octane	2.0	Not Detected	9.3	Not Detecte
Pentane	2.0	Not Detected	5.9	Not Detected
Butylbenzene	2.0	Not Detected	11	Not Detected
Decane	2.0	Not Detected	12	Not Detected
Dodecane	5.0	Not Detected	35	Not Detected
sec-Butylbenzene	2.0	Not Detected	11	Not Detected
p-Cymene	2.0	Not Detected	11	Not Detected

Method Surrogates %Recovery Limits



Client Sample ID: Lab Blank Lab ID#: 2201681-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p020706d	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/7/22 01:09 PM

		Method Limits	
Surrogates	%Recovery		
Toluene-d8	100	70-130	
1,2-Dichloroethane-d4	92	70-130	
4-Bromofluorobenzene	109	70-130	



Client Sample ID: CCV Lab ID#: 2201681-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: p020702 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 2/7/22 10:20 AM

Chloromethane 94 Vinyl Chloride 80 Freon 113 99 1,1-Dichloroethene 86 Acetone 79 Carbon Disulfide 82 Methylene Chloride 80 trans-1,2-Dichloroethene 85 Hekxane 79 1,1-Dichloroethane 86 2-Butanone (Methyl Ethyl Ketone) 87 cis-1,2-Dichloroethene 88 Chloroform 103 1,1,1-Trichloroethane 102 Benzene 92 Trichloroethane 102 Toluene 101 1,1,2-Trichloroethane 109 Tetrachloroethene 120 Chlorobenzene 106 Ethyl Benzene 99 mp-Xylene 97 o-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 101 1,2,4-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref.	Compound	%Recovery
Freon 113 99 1,1-Dichloroethene 86 Acetone 79 Carbon Disulfide 82 Methylene Chloride 80 trans-1,2-Dichloroethene 85 Hexane 79 1,1-Dichloroethane 86 2-Butanone (Methyl Ethyl Ketone) 87 cis-1,2-Dichloroethene 88 Chloroform 103 1,1,1-Trichloroethane 102 Benzene 92 Trichloroethene 102 Toluene 101 1,1,2-Trichloroethane 109 Tetrachloroethene 100 Chlorobenzene 106 Ethyl Benzene 99 m,P-Xylene 97 -Xylene 95 Styrene 96 Cumene 99 Propylenzene 101 1,2,4-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 Thyl Acetate 84 Octane 95 Fentane	Chloromethane	94
1,1-Dichloroethene 86 Acetone 79 Carbon Disulfide 82 Methylene Chloride 80 trans-1,2-Dichloroethene 85 Hexane 79 1,1-Dichloroethane 86 2-Butanone (Methyl Ethyl Ketone) 87 cis-1,2-Dichloroethene 88 Chloroform 103 1,1,1-Trichloroethane 102 Benzene 92 Trichloroethene 100 Toluene 101 1,1,2-Trichloroethane 109 Tetarchloroethene 100 Chlorobenzene 106 Ethyl Benzene 99 m,p-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 95 Dodecane 92 Dodecane 92 Dodecane 92 Dodecane 92 Bodecare 103 <td>Vinyl Chloride</td> <td>80</td>	Vinyl Chloride	80
Acetone 79 Carbon Disulfide 82 Methylene Chloride 80 trans-1,2-Dichloroethene 85 Hexane 79 1,1-Dichloroethane 86 2-Butanone (Methyl Ethyl Ketone) 87 cis-1,2-Dichloroethene 88 Chloroform 103 1,1,1-Trichloroethane 102 Benzene 92 Trichloroethene 101 1,1,2-Trichloroethane 109 Tetrachloroethene 120 Chlorobenzene 106 Ethyl Benzene 99 mp-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Fentane 78 Butylbenzene 100 Decane 92 Dodecane	Freon 113	99
Carbon Disulfide 82 Methylene Chloride 80 trans-1,2-Dichloroethene 85 Hexane 79 1,1-Dichloroethane 86 2-Butanone (Methyl Ethyl Ketone) 87 cis-1,2-Dichloroethene 88 Chloroform 103 1,1,1-Trichloroethane 102 Benzene 92 Trichloroethene 102 Toluene 101 1,1,2-Trichloroethane 109 Tetrachloroethene 120 Chlorobenzene 106 Ethyl Benzene 99 mp-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 101 1,3,5-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetate 95 Vinyl Acetate 95 Octane 95 Pentane 78 Butylbenzene 100 Do	1,1-Dichloroethene	86
Methylene Chloride 80 trans-1,2-Dichloroethene 85 Hexane 79 1,1-Dichloroethane 86 2-Butanone (Methyl Ethyl Ketone) 87 cis-1,2-Dichloroethene 88 Chloroform 103 1,1,1-Trichloroethane 102 Benzene 92 Trichloroethene 102 Toluene 101 1,2-Trichloroethane 109 Tetrachloroethene 120 Chlorobenzene 106 Ethyl Benzene 99 m,p-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 101 1,2,4-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 1,24-Trimethylbenzene 101 TyH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinjl Acetate 84 Octane 95 Pentane 78	Acetone	79
trans-1,2-Dichloroethene 85 Hexane 79 1,1-Dichloroethane 86 2-Butanone (Methyl Ethyl Ketone) 87 cis-1,2-Dichloroethene 88 Chloroform 103 1,1,1-Trichloroethane 102 Benzene 92 Trichloroethene 102 Toluene 101 1,1,2-Trichloroethane 109 Tetrachloroethene 120 Chlorobenzene 106 Ethyl Benzene 99 m,p-Xylene 97 o-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 102 1,3,5-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 34 Octane 95 Pentane 78 Butylbenzene 100 Docacane 92 Dodecane 63 Sec-Butylbenzene	Carbon Disulfide	82
Hexane 79 1,1-bichloroethane 86 2-Butanone (Methyl Ethyl Ketone) 87 cis-1,2-Dichloroethene 88 Chloroform 103 1,1,1-Trichloroethane 102 Benzene 92 Trichloroethene 102 Toluene 101 1,2-Trichloroethane 109 Tetrachloroethene 120 Chlorobenzene 106 Ethyl Benzene 99 m,p-Xylene 97 o-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 102 1,3,5-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Docane 92 Dodecane 63 sec-Butylbenzene 103	Methylene Chloride	80
1,1-Dichloroethane 86 2-Butanone (Methyl Ethyl Ketone) 87 cis-1,2-Dichloroethene 88 Chloroform 103 1,1,1-Trichloroethane 102 Benzene 92 Trichloroethene 102 Toluene 101 1,1,2-Trichloroethane 109 Tetrachloroethene 120 Chlorobenzene 106 Ethyl Benzene 99 m,p-Xylene 97 o-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 102 1,3,5-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 1,7-Yinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103	trans-1,2-Dichloroethene	85
2-Butanone (Methyl Ethyl Ketone) 87 cis-1,2-Dichloroethene 88 Chloroform 103 1,1,1-Trichloroethane 102 Benzene 92 Trichloroethene 102 Toluene 101 1,1,2-Trichloroethane 109 Tetrachloroethene 120 Chlorobenzene 106 Ethyl Benzene 99 m,p-Xylene 97 o-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 102 1,3,5-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Virnyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103	Hexane	79
cis-1,2-Dichloroethene 88 Chloroform 103 1,1,1-Trichloroethane 102 Benzene 92 Trichloroethene 102 Toluene 101 1,1,2-Trichloroethane 109 Tetrachloroethene 120 Chlorobenzene 106 Ethyl Benzene 99 m,p-Xylene 97 o-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 101 1,2,4-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Virnyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103	1,1-Dichloroethane	86
cis-1,2-Dichloroethene 88 Chloroform 103 1,1,1-Trichloroethane 102 Benzene 92 Trichloroethene 102 Toluene 101 1,1,2-Trichloroethane 109 Tetrachloroethane 120 Chlorobenzene 126 Ethyl Benzene 99 m,p-Xylene 97 o-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 101 1,2,4-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103	2-Butanone (Methyl Ethyl Ketone)	87
Chloroform 103 1,1,1-Trichloroethane 102 Benzene 92 Trichloroethene 102 Toluene 101 1,1,2-Trichloroethane 109 Tetrachloroethene 120 Chlorobenzene 106 Ethyl Benzene 99 m,p-Xylene 97 0-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 102 1,3,5-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103		88
Benzene 92 Trichloroethene 102 Toluene 101 1,1,2-Trichloroethane 109 Tetrachloroethene 120 Chlorobenzene 106 Ethyl Benzene 99 m,p-Xylene 97 o-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 102 1,3,5-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103		103
Trichloroethene 102 Toluene 101 1,1,2-Trichloroethane 109 Tetrachloroethene 120 Chlorobenzene 106 Ethyl Benzene 99 m,p-Xylene 97 o-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 102 1,3,5-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103	1,1,1-Trichloroethane	102
Toluene 101 1,1,2-Trichloroethane 109 Tetrachloroethene 120 Chlorobenzene 106 Ethyl Benzene 99 m,p-Xylene 97 o-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 102 1,3,5-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103	Benzene	92
1,1,2-Trichloroethane 109 Tetrachloroethene 120 Chlorobenzene 106 Ethyl Benzene 99 m,p-Xylene 97 o-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 102 1,3,5-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103	Trichloroethene	102
Tetrachloroethene 120 Chlorobenzene 106 Ethyl Benzene 99 m,p-Xylene 97 o-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 102 1,3,5-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103	Toluene	101
Tetrachloroethene 120 Chlorobenzene 106 Ethyl Benzene 99 m,p-Xylene 97 o-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 102 1,3,5-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103	1,1,2-Trichloroethane	109
Ethyl Benzene 99 m,p-Xylene 97 o-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 102 1,3,5-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103		120
m,p-Xylene 97 o-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 102 1,3,5-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103	Chlorobenzene	106
m,p-Xylene 97 o-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 102 1,3,5-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103	Ethyl Benzene	99
o-Xylene 95 Styrene 96 Cumene 99 Propylbenzene 102 1,3,5-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103		97
Cumene 99 Propylbenzene 102 1,3,5-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103		95
Propylbenzene 102 1,3,5-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103	Styrene	96
Propylbenzene 102 1,3,5-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103	Cumene	99
1,3,5-Trimethylbenzene 101 1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103		102
1,2,4-Trimethylbenzene 101 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103		101
TPH ref. to Gasoline (MW=100) 100 Acetonitrile 72 Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103		101
Vinyl Acetate 84 Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103		100
Octane 95 Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103	Acetonitrile	72
Pentane 78 Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103	Vinyl Acetate	84
Butylbenzene 100 Decane 92 Dodecane 63 sec-Butylbenzene 103	•	95
Decane 92 Dodecane 63 sec-Butylbenzene 103	Pentane	78
Dodecane 63 sec-Butylbenzene 103	Butylbenzene	100
sec-Butylbenzene 103	Decane	92
sec-Butylbenzene 103	Dodecane	63
\cdot		103
		103

Container Type: NA - Not Applicable

Surrogates %Recovery Limits



Client Sample ID: CCV Lab ID#: 2201681-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: p020702 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 2/7/22 10:20 AM

Surrogates	%Recovery	Method Limits	
Toluene-d8	99	70-130	
1,2-Dichloroethane-d4	96	70-130	
4-Bromofluorobenzene	105	70-130	



Client Sample ID: LCS Lab ID#: 2201681-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: p020703 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 2/7/22 10:48 AM

		Method
Compound	%Recovery	Limits
Chloromethane	100	70-130
Vinyl Chloride	83	70-130
Freon 113	104	70-130
1,1-Dichloroethene	90	70-130
Acetone	88	70-130
Carbon Disulfide	94	70-130
Methylene Chloride	90	70-130
trans-1,2-Dichloroethene	94	70-130
Hexane	85	70-130
1,1-Dichloroethane	93	70-130
2-Butanone (Methyl Ethyl Ketone)	86	70-130
cis-1,2-Dichloroethene	88	70-130
Chloroform	101	70-130
1,1,1-Trichloroethane	108	70-130
Benzene	94	70-130
Trichloroethene		70-130
Toluene	99	70-130
1,1,2-Trichloroethane	107	70-130
Tetrachloroethene	116	70-130
Chlorobenzene	105	70-130
Ethyl Benzene	99	70-130
m,p-Xylene	98	70-130
o-Xylene	98	70-130
Styrene	100	70-130
Cumene	103	70-130
Propylbenzene	 111	70-130
1,3,5-Trimethylbenzene	114	70-130
1,2,4-Trimethylbenzene	114	70-130
TPH ref. to Gasoline (MW=100)	Not Spiked	
Acetonitrile	Not Spiked	
Vinyl Acetate		60-140
Octane	Not Spiked	-
Pentane	Not Spiked	
Butylbenzene	Not Spiked	
Decane	Not Spiked	
Dodecane	Not Spiked	
sec-Butylbenzene	Not Spiked	
p-Cymene	Not Spiked	

Container Type: NA - Not Applicable

Surrogates Method Limits



Client Sample ID: LCS Lab ID#: 2201681-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p020703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/7/22 10:48 AM

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	98	70-130	
1,2-Dichloroethane-d4	102	70-130	
4-Bromofluorobenzene	114	70-130	



Client Sample ID: LCSD Lab ID#: 2201681-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: p020704 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 2/7/22 11:16 AM

Compound	%Recovery	Method Limits	
Chloromethane	91	70-130	
Vinyl Chloride	76	70-130	
Freon 113	98	70-130	
1,1-Dichloroethene	85	70-130	
Acetone	79	70-130	
Carbon Disulfide	87	70-130	
Methylene Chloride	87	70-130	
trans-1,2-Dichloroethene	91	70-130	
Hexane	86	70-130	
1,1-Dichloroethane	96	70-130	
2-Butanone (Methyl Ethyl Ketone)	87	70-130	
cis-1,2-Dichloroethene	89	70-130	
Chloroform	99	70-130	
1,1,1-Trichloroethane	106	70-130	
Benzene	96	70-130	
Trichloroethene	104	70-130	
Toluene	99	70-130	
1,1,2-Trichloroethane	107	70-130	
Tetrachloroethene	116	70-130	
Chlorobenzene	104	70-130	
Ethyl Benzene	99	70-130	
m,p-Xylene	100	70-130	
o-Xylene	98	70-130	
Styrene	100	70-130	
Cumene	102	70-130	
Propylbenzene	104	70-130	
1,3,5-Trimethylbenzene	106	70-130	
1,2,4-Trimethylbenzene	106	70-130	
TPH ref. to Gasoline (MW=100)	Not Spiked		
Acetonitrile	Not Spiked		
Vinyl Acetate	108	60-140	
Octane	Not Spiked		
Pentane	Not Spiked		
Butylbenzene	Not Spiked		
Decane	Not Spiked		
Dodecane	Not Spiked		
sec-Butylbenzene	Not Spiked		
p-Cymene	Not Spiked		

Container Type: NA - Not Applicable



Client Sample ID: LCSD Lab ID#: 2201681-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p020704	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/7/22 11:16 AM

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	101	70-130	
1,2-Dichloroethane-d4	98	70-130	
4-Bromofluorobenzene	112	70-130	



2/24/2022 Mr. Justin Neste CALIBRE, Environmental Technology Solutions 20926 Pugh Rd NE

Isnica Fran

Poulsbo WA 98370

Project Name: Renton 5-09

Project #:

Workorder #: 2202294

Dear Mr. Justin Neste

The following report includes the data for the above referenced project for sample(s) received on 2/11/2022 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Monica Tran at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Monica Tran

Project Manager



WORK ORDER #: 2202294

Work Order Summary

CLIENT: Mr. Justin Neste BILL TO: Accounts Payable

> CALIBRE, Environmental Technology **Eurofins Lancaster Laboratories**

> > DECEIDT

TETNIAT

Solutions

Environmental, LLC 20926 Pugh Rd NE 2425 New Holland Pike Poulsbo, WA 98370 Lancaster, PA 17605-2425

PHONE: 360-981-5606 **P.O.** #

FAX: PROJECT # Renton 5-09

DATE RECEIVED: 02/11/2022 **CONTACT:** Monica Tran

DATE COMPLETED: 02/24/2022

			RECEIPT	FINAL
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.	PRESSURE
01A	SVE3-020922	TO-15	3.9 "Hg	10 psi
02A	SVEIN-020922	TO-15	2.6 "Hg	10 psi
03A	Lab Blank	TO-15	NA	NA
04A	CCV	TO-15	NA	NA
05A	LCS	TO-15	NA	NA
05AA	LCSD	TO-15	NA	NA

	the	ide /	Payer		
CERTIFIED BY:		0	0	DATE:	02/24/22

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP - E87680, LA NELAP - 02089, NH NELAP - 209221, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-21-17, UT NELAP - CA009332021-13, VA NELAP - 10615, WA NELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) Accreditation number: CA300005-015, Effective date: 10/18/2021, Expiration date: 10/17/2022.

Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.



LABORATORY NARRATIVE EPA Method TO-15 CALIBRE, Environmental Technology Solutions Workorder# 2202294

Two 1 Liter Summa Canister samples were received on February 11, 2022. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.
 - M Reported value may be biased due to apparent matrix interferences.
 - CN See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



Summary of Detected Compounds EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SVE3-020922

Lab ID#: 2202294-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)	
cis-1,2-Dichloroethene	0.96	1.8	3.8	7.3	
Chloroform	0.96	1.5	4.7	7.4	
Trichloroethene	0.96	4.5	5.2	24	
Tetrachloroethene	0.96	68	6.5	460	

Client Sample ID: SVEIN-020922

Lab ID#: 2202294-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	9.2	9.6	22	23
cis-1,2-Dichloroethene	0.92	1.0	3.6	4.0
Trichloroethene	0.92	2.7	4.9	14
Tetrachloroethene	0.92	38	6.2	260



Client Sample ID: SVE3-020922 Lab ID#: 2202294-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: 3021715 Date of Collection: 2/9/22 9:05:00 AM
Dil. Factor: 1.93 Date of Analysis: 2/17/22 11:24 PM

DII. Factor.	1.93	Date	Date of Analysis: 2/17/22 11:24 PW		
	Rpt. Limit	Amount	Rpt. Limit	Amount	
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)	
Chloromethane	9.6	Not Detected	20	Not Detected	
Vinyl Chloride	0.96	Not Detected	2.5	Not Detected	
Freon 113	0.96	Not Detected	7.4	Not Detected	
1,1-Dichloroethene	0.96	Not Detected	3.8	Not Detected	
Acetone	9.6	Not Detected	23	Not Detected	
Carbon Disulfide	3.9	Not Detected	12	Not Detected	
Methylene Chloride	9.6	Not Detected	34	Not Detected	
trans-1,2-Dichloroethene	0.96	Not Detected	3.8	Not Detected	
Hexane	0.96	Not Detected	3.4	Not Detected	
1,1-Dichloroethane	0.96	Not Detected	3.9	Not Detected	
2-Butanone (Methyl Ethyl Ketone)	3.9	Not Detected	11	Not Detected	
cis-1,2-Dichloroethene	0.96	1.8	3.8	7.3	
Chloroform	0.96	1.5	4.7	7.4	
1,1,1-Trichloroethane	0.96	Not Detected	5.3	Not Detected	
Benzene	0.96	Not Detected	3.1	Not Detected	
Trichloroethene	0.96	4.5	5.2	24	
Toluene	0.96	Not Detected	3.6	Not Detected	
1,1,2-Trichloroethane	0.96	Not Detected	5.3	Not Detected	
Tetrachloroethene	0.96	68	6.5	460	
Chlorobenzene	0.96	Not Detected	4.4	Not Detected	
Ethyl Benzene	0.96	Not Detected	4.2	Not Detected	
m,p-Xylene	0.96	Not Detected	4.2	Not Detected	
o-Xylene	0.96	Not Detected	4.2	Not Detected	
Styrene	0.96	Not Detected	4.1	Not Detected	
Cumene	0.96	Not Detected	4.7	Not Detected	
Propylbenzene	0.96	Not Detected	4.7	Not Detected	
1,3,5-Trimethylbenzene	0.96	Not Detected	4.7	Not Detected	
1,2,4-Trimethylbenzene	0.96	Not Detected	4.7	Not Detected	
TPH ref. to Gasoline (MW=100)	96	Not Detected	390	Not Detected	
Acetonitrile	9.6	Not Detected	16	Not Detected	
Vinyl Acetate	3.9	Not Detected	14	Not Detected	
Octane	3.9	Not Detected	18	Not Detected	
Pentane	3.9	Not Detected	11	Not Detected	
Butylbenzene	3.9	Not Detected	21	Not Detected	
Decane	3.9	Not Detected	22	Not Detected	
Dodecane	9.6	Not Detected	67	Not Detected	
sec-Butylbenzene	3.9	Not Detected	21	Not Detected	
p-Cymene	3.9	Not Detected	21	Not Detected	
r - ,					

Container Type: 1 Liter Summa Canister

Surrogates Method Limits



Client Sample ID: SVE3-020922 Lab ID#: 2202294-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: 3021715 Date of Collection: 2/9/22 9:05:00 AM
Dil. Factor: 1.93 Date of Analysis: 2/17/22 11:24 PM

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	100	70-130	
1,2-Dichloroethane-d4	99	70-130	
4-Bromofluorobenzene	108	70-130	



Client Sample ID: SVEIN-020922 Lab ID#: 2202294-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3021716	Date of Collection: 2/9/22 9:17:00 AM
Dil. Factor:	1.84	Date of Analysis: 2/17/22 11:53 PM

	1.04	Date	Of Allalysis. Zilli	ZZ 11.00 1 W
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	9.2	Not Detected	19	Not Detected
Vinyl Chloride	0.92	Not Detected	2.4	Not Detected
Freon 113	0.92	Not Detected	7.0	Not Detected
1,1-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Acetone	9.2	9.6	22	23
Carbon Disulfide	3.7	Not Detected	11	Not Detected
Methylene Chloride	9.2	Not Detected	32	Not Detected
trans-1,2-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Hexane	0.92	Not Detected	3.2	Not Detected
1,1-Dichloroethane	0.92	Not Detected	3.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.7	Not Detected	11	Not Detected
cis-1,2-Dichloroethene	0.92	1.0	3.6	4.0
Chloroform	0.92	Not Detected	4.5	Not Detected
1,1,1-Trichloroethane	0.92	Not Detected	5.0	Not Detected
Benzene	0.92	Not Detected	2.9	Not Detected
Trichloroethene	0.92	2.7	4.9	14
Toluene	0.92	Not Detected	3.5	Not Detected
1,1,2-Trichloroethane	0.92	Not Detected	5.0	Not Detected
Tetrachloroethene	0.92	38	6.2	260
Chlorobenzene	0.92	Not Detected	4.2	Not Detected
Ethyl Benzene	0.92	Not Detected	4.0	Not Detected
m,p-Xylene	0.92	Not Detected	4.0	Not Detected
o-Xylene	0.92	Not Detected	4.0	Not Detected
Styrene	0.92	Not Detected	3.9	Not Detected
Cumene	0.92	Not Detected	4.5	Not Detected
Propylbenzene	0.92	Not Detected	4.5	Not Detected
1,3,5-Trimethylbenzene	0.92	Not Detected	4.5	Not Detected
1,2,4-Trimethylbenzene	0.92	Not Detected	4.5	Not Detected
TPH ref. to Gasoline (MW=100)	92	Not Detected	380	Not Detected
Acetonitrile	9.2	Not Detected	15	Not Detected
Vinyl Acetate	3.7	Not Detected	13	Not Detected
Octane	3.7	Not Detected	17	Not Detected
Pentane	3.7	Not Detected	11	Not Detected
Butylbenzene	3.7	Not Detected	20	Not Detected
Decane	3.7	Not Detected	21	Not Detected
Decarie				
Dodecane	9.2	Not Detected	64	Not Detected
	9.2 3.7	Not Detected Not Detected	64 20	Not Detected Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: SVEIN-020922 Lab ID#: 2202294-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3021716	Date of Collection: 2/9/22 9:17:00 AM
Dil. Factor:	1.84	Date of Analysis: 2/17/22 11:53 PM

		Method
Surrogates	%Recovery	Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	108	70-130



Client Sample ID: Lab Blank Lab ID#: 2202294-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	3021707f 1.00		of Collection: NA of Analysis: 2/17/	/22 04:00 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Rpt. Limit Amount	
Chloromethane	5.0	Not Detected	10	Not Detected	
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected	
Freon 113	0.50	Not Detected	3.8	Not Detected	
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected	
Acetone	5.0	Not Detected	12	Not Detected	
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected	
Methylene Chloride	5.0	Not Detected	17	Not Detected	
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected	
Hexane	0.50	Not Detected	1.8	Not Detected	
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected	
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected	
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected	
Chloroform	0.50	Not Detected	2.4	Not Detected	
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected	
Benzene	0.50	Not Detected	1.6	Not Detected	
Trichloroethene	0.50	Not Detected	2.7	Not Detected	
Toluene	0.50	Not Detected	1.9	Not Detected	
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected	
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected	
Chlorobenzene	0.50	Not Detected	2.3	Not Detected	
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected	
m,p-Xylene	0.50	Not Detected	2.2	Not Detected	
o-Xylene	0.50	Not Detected	2.2	Not Detected	
Styrene	0.50	Not Detected	2.1	Not Detected	
Cumene	0.50	Not Detected	2.4	Not Detected	
Propylbenzene	0.50	Not Detected	2.4	Not Detected	
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected	
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected	

Container Type: NA - Not Applicable

TPH ref. to Gasoline (MW=100)

Acetonitrile

Octane

Pentane Butylbenzene

Decane Dodecane

p-Cymene

Vinyl Acetate

sec-Butylbenzene

Surrogates Method Limits

50

5.0

2.0

2.0

2.0

2.0

2.0

5.0

2.0

2.0

Not Detected

200

8.4

7.0

9.3

5.9

11

12

 $\bar{3}\bar{5}$

11

11

Not Detected



Client Sample ID: Lab Blank Lab ID#: 2202294-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: 3021707f Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 2/17/22 04:00 PM

		Wethod	
Surrogates	%Recovery	Limits	
Toluene-d8	99	70-130	
1,2-Dichloroethane-d4	96	70-130	
4-Bromofluorobenzene	108	70-130	



Client Sample ID: CCV Lab ID#: 2202294-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: 3021702 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 2/17/22 12:33 PM

Chloromethane 93 Vinyl Chloride 89 Freon 113 106 1,1-Dichloroethene 90 Acetone 93 Carbon Disulfide 91 Methylene Chloride 107 trans-1,2-Dichloroethene 88 Hexane 95 1,1-Dichloroethane 96 2-Butanone (Methyl Ethyl Ketone) 93 cis-1,2-Dichloroethane 89 Chloroform 96 1,1-Trichloroethane 101 Benzene 96 Trichloroethane 102 Toluene 99 1,1-Zrichloroethane 96 Tetrachloroethane 112 Chlorobenzene 99 Ethyl Benzene 101 np-Xylene 101 o-Xylene 100 Styrene 99 Cumene 100 Proylbenzene 103 1,3,5-Trimethylbenzene 95 1,7-H rif, to Gasoline (MW=100) 100 Acet	Compound	%Recovery
Freon 113 106 1,1-Dichloroethene 90 Carbon Disulfide 91 Methylene Chloride 107 trans-1,2-Dichloroethene 88 Hexane 95 1,1-Dichloroethane 96 2-Butanone (Methyl Ethyl Ketone) 93 cis-1,2-Dichloroethene 89 Chloroform 96 1,1,1-Trichloroethane 101 Benzene 96 Trichloroethane 102 Toluene 99 1,1,2-Trichloroethane 96 Tetrachloroethene 112 Chlorobenzene 99 Ethyl Benzene 101 np-Xylene 101 o-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 <tr< td=""><td>Chloromethane</td><td>93</td></tr<>	Chloromethane	93
1,1-Dichloroethene 90 Acetone 93 Carbon Disulfide 91 Methylene Chloride 107 trans-1,2-Dichloroethene 88 Hexane 95 1,1-Dichloroethane 96 2-Butanone (Methyl Ethyl Ketone) 93 cis-1,2-Dichloroethene 89 Chloroform 96 1,1,1-Trichloroethane 101 Benzene 96 Trichloroethene 102 Toluene 99 1,1,2-Trichloroethane 96 Tetrachloroethene 112 Chlorobenzene 99 Ethyl Benzene 101 m,p-Xylene 101 c-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 96 Berace-Butylbenzene 98 Berace-Butylbenzene 98	Vinyl Chloride	89
Acetone 93 Carbon Disulfide 91 Methylene Chloride 107 trans-1,2-Dichloroethene 88 Hexane 95 1,1-Dichloroethane 96 2-Butanone (Methyl Ethyl Ketone) 33 cis-1,2-Dichloroethene 89 Chloroform 96 1,1,1-Trichloroethane 101 Benzene 96 Trichloroethene 102 Toluene 99 1,1,2-Trichloroethane 96 Tetrachloroethene 112 Chlorobenzene 99 Ethyl Benzene 101 np-Xylene 101 o-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 P	Freon 113	106
Action 93 Carbon Disulfide 91 Methylene Chloride 107 trans-1,2-Dichloroethene 88 Hexane 95 1,1-Dichloroethane 96 2-Butanone (Methyl Ethyl Ketone) 93 cis-1,2-Dichloroethene 89 Chloroform 96 1,1,1-Trichloroethane 101 Benzene 96 Trichloroethene 102 Toluene 99 1,1,2-Trichloroethane 96 Tetrachloroethene 112 Chlorobenzene 99 Ethyl Benzene 101 np-Xylene 101 0-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinj Acetate 99 Octane 96 Pentane 99 Butylbenzene	1,1-Dichloroethene	90
Methylene Chloride 107 trans-1,2-Dichloroethene 88 Hexane 95 1,1-Dichloroethane 96 2-Butanone (Methyl Ethyl Ketone) 93 cis-1,2-Dichloroethene 89 Chloroform 96 1,1,1-Trichloroethane 101 Benzene 96 Trichloroethene 102 Toluene 99 1,1,2-Trichloroethane 96 Tetrachloroethene 112 Chlorobenzene 99 Ethyl Benzene 101 m,p-Xylene 101 o-Xylene 100 Styrene 100 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2+Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Viryl Acetate 99 Octane 96 Pentane 99 Butlylbenzene 98 Deca		93
Methylene Chloride 107 trans-1,2-Dichloroethene 88 Hexane 95 1,1-Dichloroethane 96 2-Butanone (Methyl Ethyl Ketone) 93 cis-1,2-Dichloroethene 89 Chloroform 96 1,1,1-Trichloroethane 101 Benzene 96 Trichloroethene 102 Toluene 99 1,1,2-Trichloroethane 96 Tetrachloroethene 112 Chlorobenzene 99 Ethyl Benzene 101 m,p-Xylene 101 o-Xylene 100 Styrene 100 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrie 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butlylbenzene 98 Dec	Carbon Disulfide	91
trans-1,2-Dichloroethene 88 Hexane 95 1,1-Dichloroethane 96 2-Butanone (Methyl Ethyl Ketone) 93 cis-1,2-Dichloroethene 89 Chloroform 96 1,1,1-Trichloroethane 101 Benzene 96 Trichloroethene 102 Toluene 99 1,1,2-Trichloroethane 96 Tetrachloroethene 112 Chlorobenzene 99 Ethyl Benzene 101 m,p-Xylene 101 o-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 102 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Docane 101 Dodecane		107
Hexane 95 1,1-Dichloroethane 96 2-Butanone (Methyl Ethyl Ketone) 93 cis-1,2-Dichloroethene 89 Chloroform 96 1,1,1-Trichloroethane 101 Benzene 96 Trichloroethene 102 Toluene 99 1,1,2-Trichloroethane 96 Tetachloroethane 112 Chlorobenzene 99 Ethyl Benzene 101 m,p-Xylene 101 Styrene 100 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 98 Decane 99 Butylbenzene 93 <td></td> <td>88</td>		88
2-Butanone (Methyl Ethyl Ketone) 93 cis-1,2-Dichloroethene 89 Chloroform 96 1,1,1-Trichloroethane 101 Benzene 96 Trichloroethene 102 Toluene 99 1,1,2-Trichloroethane 96 Tetrachloroethene 112 Chlorobenzene 99 Ethyl Benzene 101 m,p-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 98 Becane 101 Dodecane 93 sec-Butylbenzene 96		95
cis-1,2-Dichloroethene 89 Chloroform 96 1,1,1-Trichloroethane 101 Benzene 96 Trichloroethene 102 Toluene 99 1,2-Trichloroethane 96 Tetrachloroethene 112 Chlorobenzene 99 Ēthyl Benzene 101 m,p-Xylene 101 o-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 98 Becane 101 Dodecane 98 Bec-Butylbenzene 96	1,1-Dichloroethane	96
cis-1,2-Dichloroethene 89 Chloroform 96 1,1,1-Trichloroethane 101 Benzene 96 Trichloroethene 102 Toluene 99 1,2-Trichloroethane 96 Tetrachloroethene 112 Chlorobenzene 99 Ēthyl Benzene 101 m,p-Xylene 101 o-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 98 Becane 101 Dodecane 98 Bec-Butylbenzene 96	2-Butanone (Methyl Ethyl Ketone)	93
Chloroform 96 1,1,1-Trichloroethane 101 Benzene 96 Trichloroethene 102 Toluene 99 1,1,2-Trichloroethane 96 Tetrachloroethene 112 Chlorobenzene 99 Ethyl Benzene 101 m,p-Xylene 101 o-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 102 1,3,5-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 98 Becane 101 Dodecane 93 sec-Butylbenzene 96		
Benzene 96 Trichloroethene 102 Toluene 99 1,1,2-Trichloroethane 96 Tetrachloroethene 112 Chlorobenzene 99 Ethyl Benzene 101 m,p-Xylene 100 o-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 98 Becane 101 Dodecane 93 sec-Butylbenzene 96		96
Benzene 96 Trichloroethene 102 Toluene 99 1,1,2-Trichloroethane 96 Tetrachloroethene 112 Chlorobenzene 99 Ethyl Benzene 101 m,p-Xylene 101 o-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 98 Becane 101 Dodecane 93 sec-Butylbenzene 96	1,1,1-Trichloroethane	101
Toluene 99 1,1,2-Trichloroethane 96 Tetrachloroethene 112 Chlorobenzene 99 Ethyl Benzene 101 m,p-Xylene 101 o-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 98 Decane 101 Dodecane 93 sec-Butylbenzene 96		96
Toluene 99 1,1,2-Trichloroethane 96 Tetrachloroethene 112 Chlorobenzene 99 Ethyl Benzene 101 m,p-Xylene 101 o-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 98 Decane 101 Dodecane 93 sec-Butylbenzene 96	Trichloroethene	102
Tetrachloroethene 112 Chlorobenzene 99 Ethyl Benzene 101 m,p-Xylene 101 o-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 98 Decane 101 Dodecane 93 sec-Butylbenzene 96		99
Tetrachloroethene 112 Chlorobenzene 99 Ethyl Benzene 101 m,p-Xylene 101 o-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 98 Decane 101 Dodecane 93 sec-Butylbenzene 96	1,1,2-Trichloroethane	96
Ethyl Benzene 101 m,p-Xylene 101 o-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 93 sec-Butylbenzene 96		112
Ethyl Benzene 101 m,p-Xylene 100 o-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 93 sec-Butylbenzene 96	Chlorobenzene	99
o-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 93 sec-Butylbenzene 96	Ethyl Benzene	101
o-Xylene 100 Styrene 99 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 93 sec-Butylbenzene 96	•	101
Styrene 99 Cumene 100 Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 93 sec-Butylbenzene 96		100
Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 93 sec-Butylbenzene 96		99
Propylbenzene 103 1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 93 sec-Butylbenzene 96		100
1,3,5-Trimethylbenzene 102 1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 93 sec-Butylbenzene 96		103
1,2,4-Trimethylbenzene 95 TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 93 sec-Butylbenzene 96	• •	102
TPH ref. to Gasoline (MW=100) 100 Acetonitrile 100 Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 93 sec-Butylbenzene 96		95
Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 93 sec-Butylbenzene 96		100
Vinyl Acetate 99 Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 93 sec-Butylbenzene 96	Acetonitrile	100
Octane 96 Pentane 99 Butylbenzene 98 Decane 101 Dodecane 93 sec-Butylbenzene 96	Vinyl Acetate	99
Butylbenzene 98 Decane 101 Dodecane 93 sec-Butylbenzene 96		96
Decane 101 Dodecane 93 sec-Butylbenzene 96	Pentane	99
Decane 101 Dodecane 93 sec-Butylbenzene 96	Butylbenzene	98
sec-Butylbenzene 96	-	101
sec-Butylbenzene 96	Dodecane	93
·		
		91

Container Type: NA - Not Applicable

Surrogates Method
Limits



Client Sample ID: CCV Lab ID#: 2202294-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: 3021702 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 2/17/22 12:33 PM

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	109	70-130



Surrogates

Client Sample ID: LCS Lab ID#: 2202294-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: 3021703 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 2/17/22 01:00 PM

Compound	%Recovery	Method Limits
<u> </u>	·	
Chloromethane	95	70-130
Vinyl Chloride	92	70-130
Freon 113	103	70-130
1,1-Dichloroethene	87	70-130
Acetone	94	70-130
Carbon Disulfide	91	70-130
Methylene Chloride	102	70-130
trans-1,2-Dichloroethene	87	70-130
Hexane	94	70-130
1,1-Dichloroethane	94	70-130
2-Butanone (Methyl Ethyl Ketone)	92	70-130
cis-1,2-Dichloroethene	86	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	99	70-130
Benzene	97	70-130
Trichloroethene	103	70-130
Toluene	99	70-130
1,1,2-Trichloroethane	99	70-130
Tetrachloroethene	112	70-130
Chlorobenzene	100	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	102	70-130
o-Xylene	100	70-130
Styrene	98	70-130
Cumene	101	70-130
	103	70-130
1,3,5-Trimethylbenzene	101	70-130
1,2,4-Trimethylbenzene	96	70-130
TPH ref. to Gasoline (MW=100)	Not Spiked	
Acetonitrile	Not Spiked	70-130
Vinyl Acetate	Not Spiked	70-130
Octane	Not Spiked	70-130
Pentane	Not Spiked	70-130
Butylbenzene	Not Spiked	70-130
Decane	Not Spiked	70-130
Dodecane	Not Spiked	70-130
sec-Butylbenzene	Not Spiked	70-130
p-Cymene	Not Spiked	70-130
	r	
Container Type: NA - Not Applicable		Method

%Recovery

Limits



Client Sample ID: LCS Lab ID#: 2202294-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: 3021703 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 2/17/22 01:00 PM

		Method
Surrogates	%Recovery	Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	108	70-130



Client Sample ID: LCSD Lab ID#: 2202294-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: 3021704 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 2/17/22 01:27 PM

%Recovery 94	
94	70-130
	70-130
102	70-130
87	70-130
94	70-130
·	70-130
102	70-130
88	70-130
92	70-130
94	70-130
	70-130
86	70-130
94	70-130
97	70-130
96	70-130
	70-130
	70-130
	70-130
	70-130
100	70-130
103	70-130
101	70-130
99	70-130
98	70-130
100	70-130
101	70-130
101	70-130
95	70-130
Not Spiked	
Not Spiked	70-130
	70-130
	70-130
Not Spiked	70-130
	87 94 90 102 88 92 94 94 94 86 94 97 96 102 98 98 98 112 100 103 101 99 98 100 101 101 95 Not Spiked

Surrogates %Recovery Limits

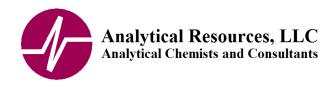


Client Sample ID: LCSD Lab ID#: 2202294-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: 3021704 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 2/17/22 01:27 PM

		Method
Surrogates	%Recovery	Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	108	70-130



29 March 2022

Nick Garson The Boeing Company PO Box 3707 M/S 1W-12 Seattle, WA 98124

RE: Boeing Renton Regional GW Building 4-78/79 (Boeing Renton Regional GW Building 4-78/79)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)

22B0253

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Kelly Bottem, Client Services Manager

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2230253	Turn-around Requested: Stunder d			Page: of [Analytical Resources, LLC Analytical Chemists and Consultants				
ARI Client Company:			25.269		Date:	2/17/2	Z Ice Prese	ent?			4611 Sc	outh 134th Place, Suite 100 , WA 98168
Client Contact: Nick (727))a				No. of Coolers:	1	Coole Temp	r s: 2.0	P		206-69	5-6200 206-695-6201 (fax)
Client Project Name:							12	Analysis Re	quested			Notes/Comments
Client Project #:	Samplers:	assen JN	1316				Muse.			11 000		
Sample ID	Date	Time	Matrix	No. Containers	VOC.	757	No cathlance					
B003-01-021722	2/17/22	0933	GW	4	×	×						VC only
GW2105-021722	j	1035		4	X		X				Þ	TCE, CISTODE, VC Benzene TCE, CISTODE, VC
1318-16-0717-2		1041		4	X	X						Benzene
Dupo1-021722		0800		3	×							Benzene
81720021722		1157		4	X	X						PCE, TCE, CISTZDE
B172-01-021722	1	1152	1	4	*	X						PCE, TCE, CISIZIXE
Trip Blank	2/17/22		Aq	1	×							
Comments/Special Instructions	Relinquished by	M.		Received by: (Signature)	20	H		Relinquished by	<i>y</i> :		Received by	r.
CC Tom Mckeun Jen nifer Parson	Printed Name:	= Lasse	n	Printed Name	aven i	Barb	era	Printed Name:			Printed Nan	ne:
Jen nifer Parson	Company:				121			Company:			Company:	
	Date & Time: 2/17/		1320	Date & Time:	2/17/2	2	1320	Date & Time:			Date & Time	91

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or cosigned agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Page 2 of 34 22B0253 ARISample FINAL 29 Mar 2022 1531

The Boeing CompanyProject:Boeing Renton Regional GW Building 4-78/79PO Box 3707 M/S 1W-12Project Number:Boeing Renton Regional GW Building 4-78/79Reported:Seattle WA, 98124Project Manager:Nick Garson29-Mar-2022 15:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B003-01-021722	22B0253-01	Water	17-Feb-2022 09:33	17-Feb-2022 13:20
GW2105-021722	22B0253-02	Water	17-Feb-2022 10:35	17-Feb-2022 13:20
B78-16-021722	22B0253-03	Water	17-Feb-2022 10:41	17-Feb-2022 13:20
Dup01-021722	22B0253-04	Water	17-Feb-2022 08:00	17-Feb-2022 13:20
B172-08-021722	22B0253-05	Water	17-Feb-2022 11:57	17-Feb-2022 13:20
B172-01-021722	22B0253-06	Water	17-Feb-2022 11:52	17-Feb-2022 13:20
TripBlank	22B0253-07	Water	17-Feb-2022 09:33	17-Feb-2022 13:20



The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

PO Box 3707 M/S 1W-12 Project Number: Boeing Renton Regional GW Building 4-78/79 Reported:

Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

Work Order Case Narrative

Volatiles - EPA Method SW8260D

The sample(s) were analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times with the exception of sample 22B0253-02 for nitrate and nitrite. The sample was originally analyzed within hold and due to a autosampler malfunction the closing CCV did not inject. The sample was re-analyzed out of hold and both sets of data have been reported.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The reference material (SRM) percent recoveries were within control limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

Samples were subcontracted for TOC due to instrument failure.



WORK ORDER

22B0253

Samples will be discarded 90 days after submission of a final report unless other instructions are received.

Client: The Boeing Company Project Manager: Kelly Bottem

Project: Boeing Renton Regional GW Building 4-78/79 Project Number: Boeing Renton Regional GW Building 4-78/79

Preservation Confirmation

Container ID	Container Type	pH	
22B0253-01 A	Glass NM, Amber, 250 mL, 9N H2SO4	>2	Fail
22B0253-01 B	VOA Vial, Clear, 40 mL, HCL		
22B0253-01 C	VOA Vial, Clear, 40 mL, HCL		
22B0253-01 D	VOA Vial, Clear, 40 mL, HCL		
22B0253-02 A	HDPE NM, 500 mL		
22B0253-02 B	VOA Vial, Clear, 40 mL, HCL		
22B0253-02 C	VOA Vial, Clear, 40 mL, HCL		
22B0253-02 D	VOA Vial, Clear, 40 mL, HCL		
22B0253-03 A	Glass NM, Amber, 250 mL, 9N H2SO4	12	Pass (P)
22B0253-03 B	VOA Vial, Clear, 40 mL, HCL		
22B0253-03 C	VOA Vial, Clear, 40 mL, HCL		
22B0253-03 D	VOA Vial, Clear, 40 mL, HCL		
22B0253-04 A	VOA Vial, Clear, 40 mL, HCL		
22B0253-04 B	VOA Vial, Clear, 40 mL, HCL		
22B0253-04 C	VOA Vial, Clear, 40 mL, HCL		
22B0253-05 A	Glass NM, Amber, 250 mL, 9N H2SO4	12	P
22B0253-05 B	VOA Vial, Clear, 40 mL, HCL		
22B0253-05 C	VOA Vial, Clear, 40 mL, HCL		
22B0253-05 D	VOA Vial, Clear, 40 mL, HCL		
22B0253-06 A	Glass NM, Amber, 250 mL, 9N H2SO4	42	P
22B0253-06 B	VOA Vial, Clear, 40 mL, HCL		
22B0253-06 C	VOA Vial, Clear, 40 mL, HCL		
22B0253-06 D	VOA Vial, Clear, 40 mL, HCL		
22B0253-07 A	VOA Vial, Clear, 40 mL, HCL		
22B0253-07 B	VOA Vial, Clear, 40 mL, HCL		
22B0253-07 C	VOA Vial, Clear, 40 mL, HCL		

Preservation Confirmed By

Date



Cooler Receipt Form

ARI Client: Boeing		Project Name: Renton	ì		
COC No(s):	NA NA	Delivered by: Fed-Ex UPS Cour	ier Hand Delivered	Other:	2,,
Assigned ARI Job No: 2230	1253	Tracking No:			NA
Preliminary Examination Phase:					
Were intact, properly signed and d	ated custody seals attached to the	ne outside of the cooler?	YE	s C	YOU
Were custody papers included with	the cooler?		YE	\$	NO
Were custody papers properly filled	d out (ink, signed, etc.)		(YE	3),	NO
Temperature of Cooler(s) (°C) (rec	ommended 2.0-6.0 °C for chemi-	- /			
Time1320		26			
If cooler temperature is out of comp		1 1	Temp Gun ID#:		>
Cooler Accepted by:	K/	Date: 2/17/22 Time	1320)	
	Complete custody forms an	nd attach all shipping documents			
Log-In Phase:					
Was a temperature blank include	d in the cooler?			YES	NO
What kind of packing material v		Wet Ice Gel Packs Baggies Foam	Block Paper Othe	r	
Was sufficient ice used (if approp	riate)?		NA	YES	NO
How were bottles sealed in plastic	c bags?		Individually	Grouped	Not
Did all bottles arrive in good cond	ition (unbroken)?			YES	NO
Were all bottle labels complete ar	nd legible?			YES	NO
Did the number of containers liste	ed on COC match with the numb	er of containers received?	EM 2/17/2	YES	NO
Did all bottle labels and tags agre	e with custody papers?		3, -1	YES	NO
Were all bottles used correct for t	he requested analyses?			YES	NO
Do any of the analyses (bottles) r	equire preservation? (attach pres	servation sheet, excluding VOCs)	NA	YES	NO
Were all VOC vials free of air but	bles?		NA	YES	NO
Was sufficient amount of sample	sent in each bottle?			YES	NO
Date VOC Trip Blank was made	at ARI		NA	2/	115/2
Were the sample(s) split by ARI?	YES Date/Time:	Equipment:		Split by:	
Dy Aidi:	n - 1				
Samples Logged by:		72_Time:1519La	bels checked by:		
	** Notify Project Manager	of discrepancies or concerns **			
Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample	ID on COC	
			4		
Only Tripblank		oc but 3 vials we	re receive	ed.	
0.00	1 1				
By: And Da	te: 2/17/2 Z				

0016F 01/17/2018 Cooler Receipt Form

Revision 014A

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

Spectra Labs - Tacoma received samples from Analytical Resources, LLC on Friday, February 18, 2022 at 2:33 pm. Unless otherwise noted, all samples were received in good condition and were tested in accordance with the laboratory's quality control procedures. A summary of the samples received are outlined below.

Sample No.	Description	Location	Sampled
300526-01		22B0253-01	02/17/2022 9:33
300526-02		22B0253-03	02/17/2022 10:41
300526-03		22B0253-05	02/17/2022 11:57
300526-04		22B0253-06	02/17/2022 11:52

This report package contains laboratory sample results and any attachments listed below. If you have any questions please call (253) 272-4850 or email us at office@spectra-lab.com.

Attachments

- 01) TOC Batch QC
- 02) Chain of Custody

This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender immediately at 253-272-4850 and destroy this report promptly.

These results relate only to the items tested and the sample(s) as received by the laboratory. This report shall not be reproduced except in full, without prior express written approval by Spectra Laboratories.

Approved By

Ben Frans

Lab Operations Manager

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

Analytical Report

Analytical Resources, LLC 4611 South 134th Place Suite 100 Tukwila, WA 98168 Project 22B0253
PO Number Kelly Bottem
Date Received 02/18/2022

Client ID:	22B0253-01		Lab No:	300526-01		Sample Date: 02/17/22 09:33			
Analyte		Method	Result	Units	PQL	Qualifiers	Analysis Date	Analyst	
TOC		SM 5310 B	31.5	mg/L	0.5		3/7/2022	SCJ	
OT						~			
Client ID:	22B0253-03		Lab No:	300526-02		Sar	nple Date: 02/1'	7/22 10:41	
Analyte		Method	Result	Units	PQL	Qualifiers	Analysis Date	Analyst	
TOC		SM 5310 B	13.4	mg/L	0.5		3/7/2022	SCJ	
Client ID:	22B0253-05		Lab No:	300526-03		Sar	nple Date: 02/1	7/22 11:57	
A I (.									
Analyte		Method	Result	Units	PQL	Qualifiers	Analysis Date	Analyst	
TOC		Method SM 5310 B	Result 1.60	Units mg/L	PQL 0.5	Qualifiers 	Analysis Date 3/7/2022	Analyst SCJ	
						•			
	22B0253-06							SCJ	
TOC	22B0253-06		1.60	mg/L			3/7/2022	SCJ	

Lab Qualifiers Comments:

This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender immediately at 360-443-7845 and destroy this report promptly.

These results relate only to the items tested and the sample(s) as received by the laboratory. This report shall not be reproduced except in full, without prior express written approval by Spectra Laboratories.

03/28/2022 Page 2 of 2

March 7, 2022

Analytical Resources, Inc. 4611 South 134th Place

Suite 100

Tukwila, WA. 98168

Units:

mg/L

Spectra Project:

300526

Applies to Spectra #'s:

1-4

QUALITY CONTROL RESULTS Total Organic Carbon in Water - SM 5310B

Method Blank

Date Analyzed:

3/7/2022

Blank

Total Organic Carbon

< 0.5

Laboratory Control Sample (LCS)

Date Analyzed:

3/7/2022

Spike

LCS

Added

LCS Conc.

%Rec

Total Organic Carbon

10.0 10.12 101.2

LCS Recovery limits 75-125%

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Date Analyzed:

3/7/2022

Sample Spiked:

300354-1

Total Organic Carbon

Sample MS MS MSD **MSD** Spike Conc. Conc. Conc. %Rec Conc

RPD %Rec 16.79 10.0 25.67 88.8 25.96 91.7 3.2

Comment:

Recovery Limits 75-125%

RPD Limit 20

Spectra Laboratories



30054

SUBCONTRACT ORDER To: Spectra Laboratories ARI Work Order:22B0253

SENDING LABORATORY:

Analytical Resources, LLC

4611 S. 134th Place, Suite 100

Tukwila, WA 98168 Phone: (206) 695-6200 Fax: (206) 695-6202

Project Manager: Kelly Bottem E-Mail: kelly.bottem@arilabs.com RECEIVING LABORATORY:

Spectra Laboratories 2221 Ross Way Tacoma, WA 98421 Phone:253-272-4850

Fax: -

PLEASE SEND DATA TO subdata@arilabs.com

Analysis	Due	Expires	Sub Laboratory ID	Comments
Sample ID: 22B0253-01 Sampled: 02/17/22 09:33 Matrix: Water				
Carbon, Organic Total, SM 5310 B-00	03/04/22	03/17/22 09:33		
Containers Supplied:				
22B0253-01 A Glass NM, Amber, 250 mL, 9N				
Sample ID: 22B0253-03 Sampled: 02/17/22 10:41 Matrix: Water				
Carbon, Organic Total, SM 5310 B-00	03/04/22	03/17/22 10:41		
Containers Supplied:				
22B0253-03 A Glass NM, Amber, 250 mL, 9N				
Sample ID: 22B0253-05 Sampled: 02/17/22 11:57 Matrix: Water				
Carbon, Organic Total, SM 5310 B-00	03/04/22	03/17/22 11:57		
Containers Supplied:				
22B0253-05 A Glass NM, Amber, 250 mL, 9N				
Sample ID: 22B0253-06 Sampled: 02/17/22 11:52 Matrix: Water				
Carbon, Organic Total, SM 5310 B-00	03/04/22	03/17/22 11:52		
Containers Supplied:				
22B0253-06 A Glass NM, Amber, 250 mL, 9N				

ARI Afaist 1433 2/8/22 Law Almost 2/8-22 1933
Released By Date Received By Date

Ro_Altford

Released By
Printed: 2/17/2022 3:27:52PM

Date

Received By

Date

Page 1 of 1



Extract ID: 22B0253-01 B

The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

Project Number: Boeing Renton Regional GW Building 4-78/79 PO Box 3707 M/S 1W-12 Reported: Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

> B003-01-021722 22B0253-01 (Water)

Volatile Organic Compounds

Method: EPA 8260D Sampled: 02/17/2022 09:33 Instrument: NT2 Analyst: PKC Analyzed: 02/18/2022 18:15

Analysis by: Analytical Resources, LLC

Preparation Method: EPA 5030C (Purge and Trap) Sample Preparation:

Preparation Batch: BKB0448 Sample Size: 10 mL

Prepared: 02/18/2022 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl Chloride	75-01-4	1	0.08	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	99.1	%	
Surrogate: Toluene-d8				80-120 %	96.7	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	96.8	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	100	%	



The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

PO Box 3707 M/S 1W-12 Project Number: Boeing Renton Regional GW Building 4-78/79 Reported:

Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

B003-01-021722 22B0253-01 (Water)

Wet Chemistry

 Method: SM 5310 B-00
 Sampled: 02/17/2022 09:33

 Instrument: SLAB Analyst:
 Analyzed: 03/07/2022 00:00

Analysis by: Spectra Laboratories

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 22B0253-01

Preparation Batch: B030722

Prepared: 02/17/2022 Final Volume:

			Detection	Reporting			
Analyte	CAS Number	Dilution	Limit	Limit	Result	Units	Notes
Total Organic Carbon		1	0.5	0.5	31.5	mø/L	



Extract ID: 22B0253-02 C

The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

Project Number: Boeing Renton Regional GW Building 4-78/79 PO Box 3707 M/S 1W-12 Reported: Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

> GW2105-021722 22B0253-02 (Water)

Volatile Organic Compounds

Method: EPA 8260D Sampled: 02/17/2022 10:35 Instrument: NT2 Analyst: PKC Analyzed: 02/18/2022 18:36

Analysis by: Analytical Resources, LLC

Preparation Method: EPA 5030C (Purge and Trap) Sample Preparation:

Preparation Batch: BKB0448 Sample Size: 10 mL Prepared: 02/18/2022 Final Volume: 10 mL

			Detection	Reporting			
Analyte	CAS Number	Dilution	Limit	Limit	Result	Units	Notes
Vinyl Chloride	75-01-4	1	0.08	0.20	ND	ug/L	U
cis-1,2-Dichloroethene	156-59-2	1	0.08	0.20	ND	ug/L	U
Benzene	71-43-2	1	0.05	0.20	0.56	ug/L	
Trichloroethene	79-01-6	1	0.07	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	101	%	
Surrogate: Toluene-d8				80-120 %	98.9	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	95.3	%	



The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

PO Box 3707 M/S 1W-12 Project Number: Boeing Renton Regional GW Building 4-78/79 Reported:

Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

GW2105-021722 22B0253-02 (Water)

Wet Chemistry

 Method: EPA 300.0
 Sampled: 02/17/2022 10:35

 Instrument: IC930 Analyst: CKI
 Analyzed: 02/18/2022 14:22

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 22B0253-02 A

Preparation Batch: BKB0447 Sample Size: 10 mL Prepared: 02/18/2022 Final Volume: 10 mL

Detection Reporting Analyte CAS Number Dilution Limit Result Notes Nitrate-N 14797-55-8 0.100 0.100 ND U mg/LDetection Reporting Limit CAS Number Dilution Limit Result Units Analyte Notes 14797-65-0 0.100 ND Nitrite-N 0.100 U mg/L



The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

PO Box 3707 M/S 1W-12 Project Number: Boeing Renton Regional GW Building 4-78/79 Reported:

Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

GW2105-021722 22B0253-02RE1 (Water)

Wet Chemistry

 Method: EPA 300.0
 Sampled: 02/17/2022 10:35

 Instrument: IC930
 Analyst: CKI

 Analyzed: 02/22/2022 17:00

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 22B0253-02RE1 A

Preparation Batch: BKB0505 Sample Size: 10 mL Prepared: 02/22/2022 Final Volume: 10 mL

Detection Reporting CAS Number Dilution Limit Result Analyte Notes Nitrate-N 14797-55-8 0.100 0.100 ND H, U mg/LDetection Reporting Limit CAS Number Dilution Limit Units Analyte Result Notes 14797-65-0 ND Nitrite-N 0.100 H, U 0.100 mg/LDetection Reporting Analyte CAS Number Dilution Limit Limit Result Units Notes Sulfate 14808-79-8 0.100 0.100 5.73 mg/L



Extract ID: 22B0253-03 D

The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

PO Box 3707 M/S 1W-12 Project Number: Boeing Renton Regional GW Building 4-78/79 Reported:

Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

B78-16-021722 22B0253-03 (Water)

Volatile Organic Compounds

 Method: EPA 8260D
 Sampled: 02/17/2022 10:41

 Instrument: NT2
 Analyst: PKC

 Analyzed: 02/18/2022 18:56

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)

Preparation Batch: BKB0448 Sample Size: 10 mL Prepared: 02/18/2022 Final Volume: 10 mL

Detection Reporting CAS Number Dilution Limit Units Analyte Result Notes Vinyl Chloride 75-01-4 293 0.08 0.20 Е ug/L cis-1,2-Dichloroethene 156-59-2 301 Е 1 0.08 0.20 ug/L Benzene 71-43-2 0.05 0.20 8.30 ug/L Trichloroethene 79-01-6 0.20 0.94 ug/L

 Surrogate: 1,2-Dichloroethane-d4
 80-129 %
 103 %

 Surrogate: Toluene-d8
 80-120 %
 97.9 %

 Surrogate: 4-Bromofluorobenzene
 80-120 %
 98.7 %



The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

PO Box 3707 M/S 1W-12 Project Number: Boeing Renton Regional GW Building 4-78/79 Reported:

Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

B78-16-021722 22B0253-03 (Water)

Wet Chemistry

 Method: SM 5310 B-00
 Sampled: 02/17/2022 10:41

 Instrument: SLAB Analyst:
 Analyzed: 03/07/2022 00:00

Analysis by: Spectra Laboratories

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 22B0253-03

Preparation Batch: B030722

Prepared: 02/17/2022 Final Volume:

			Detection	Reporting			
Analyte	CAS Number	Dilution	Limit	Limit	Result	Units	Notes
Total Organic Carbon		1	0.5	0.5	13.4	mg/L	



Extract ID: 22B0253-03RE1 B

The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

Project Number: Boeing Renton Regional GW Building 4-78/79 PO Box 3707 M/S 1W-12 Reported: Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

B78-16-021722 22B0253-03RE1 (Water)

Volatile Organic Compounds

Method: EPA 8260D Sampled: 02/17/2022 10:41 Instrument: NT2 Analyst: PKC Analyzed: 02/21/2022 16:44

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)

Preparation Batch: BKB0458 Sample Size: 1 mL

Prepared: 02/21/2022 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl Chloride	75-01-4	1	0.82	2.00	280	ug/L	
cis-1,2-Dichloroethene	156-59-2	1	0.81	2.00	288	ug/L	
Benzene	71-43-2	1	0.53	2.00	7.36	ug/L	
Trichloroethene	79-01-6	1	0.70	2.00	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	102	%	
Surrogate: Toluene-d8				80-120 %	97.8	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	95.9	%	



Extract ID: 22B0253-04 C

The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

PO Box 3707 M/S 1W-12 Project Number: Boeing Renton Regional GW Building 4-78/79 Reported: Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

> Dup01-021722 22B0253-04 (Water)

Volatile Organic Compounds

Method: EPA 8260D Sampled: 02/17/2022 08:00 Instrument: NT2 Analyst: PKC Analyzed: 02/18/2022 19:17

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)

Sample Size: 10 mL

Preparation Batch: BKB0448 Prepared: 02/18/2022 Final Volume: 10 mL

			Detection	Reporting			
Analyte	CAS Number	Dilution	Limit	Limit	Result	Units	Notes
Vinyl Chloride	75-01-4	1	0.08	0.20	278	ug/L	Е
cis-1,2-Dichloroethene	156-59-2	1	0.08	0.20	294	ug/L	E
Benzene	71-43-2	1	0.05	0.20	7.90	ug/L	
Trichloroethene	79-01-6	1	0.07	0.20	0.90	ug/L	
Surrogate: 1,2-Dichloroethane-d4				80-129 %	106	%	
Surrogate: Toluene-d8				80-120 %	96.4	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	98.3	%	



Extract ID: 22B0253-04RE1 A

The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

PO Box 3707 M/S 1W-12 Project Number: Boeing Renton Regional GW Building 4-78/79 Reported:

Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

Dup01-021722 22B0253-04RE1 (Water)

Volatile Organic Compounds

 Method: EPA 8260D
 Sampled: 02/17/2022 08:00

 Instrument: NT2
 Analyst: PKC

 Analyzed: 02/21/2022 17:07

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)

Preparation Batch: BKB0458 Sample Size: 1 mL Prepared: 02/21/2022 Final Volume: 10 mL

Detection Reporting CAS Number Dilution Limit Limit Units Analyte Result Notes Vinyl Chloride 75-01-4 293 0.82 2.00 ug/L cis-1,2-Dichloroethene 156-59-2 299 1 0.81 2.00 ug/L Benzene 71-43-2 0.53 2.00 7.23 ug/L Trichloroethene 79-01-6 2.00 ND U ug/L Surrogate: 1,2-Dichloroethane-d4 80-129 % 111 % Surrogate: Toluene-d8 80-120 % 97.5 % Surrogate: 4-Bromofluorobenzene 80-120 % 90.3 %



Extract ID: 22B0253-05 D

The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

PO Box 3707 M/S 1W-12 Project Number: Boeing Renton Regional GW Building 4-78/79 Reported: Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

> B172-08-021722 22B0253-05 (Water)

Volatile Organic Compounds

Method: EPA 8260D Sampled: 02/17/2022 11:57 Instrument: NT2 Analyst: PKC Analyzed: 02/21/2022 17:27

Analysis by: Analytical Resources, LLC

Preparation Method: EPA 5030C (Purge and Trap) Sample Preparation:

Preparation Batch: BKB0458 Sample Size: 10 mL

Prepared: 02/21/2022 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl Chloride	75-01-4	1	0.08	0.20	ND	ug/L	U
cis-1,2-Dichloroethene	156-59-2	1	0.08	0.20	0.30	ug/L	
Trichloroethene	79-01-6	1	0.07	0.20	ND	ug/L	U
Tetrachloroethene	127-18-4	1	0.09	0.20	1.62	ug/L	
Surrogate: 1,2-Dichloroethane-d4				80-129 %	111	%	
Surrogate: Toluene-d8				80-120 %	97.1	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	93.0	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	102	%	



The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

PO Box 3707 M/S 1W-12 Project Number: Boeing Renton Regional GW Building 4-78/79 Reported:

Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

B172-08-021722 22B0253-05 (Water)

Wet Chemistry

 Method: SM 5310 B-00
 Sampled: 02/17/2022 11:57

 Instrument: SLAB Analyst:
 Analyzed: 03/07/2022 00:00

Analysis by: Spectra Laboratories

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 22B0253-05

Preparation Batch: B030722

Prepared: 02/17/2022 Final Volume:

			Detection	Reporting			
Analyte	CAS Number	Dilution	Limit	Limit	Result	Units	Notes
Total Organic Carbon		1	0.5	0.5	1.60	mg/L	



Extract ID: 22B0253-06 C

The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

Project Number: Boeing Renton Regional GW Building 4-78/79 PO Box 3707 M/S 1W-12 Reported: Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

> B172-01-021722 22B0253-06 (Water)

Volatile Organic Compounds

Method: EPA 8260D Sampled: 02/17/2022 11:52 Instrument: NT2 Analyst: PKC Analyzed: 02/21/2022 17:49

Analysis by: Analytical Resources, LLC

Preparation Method: EPA 5030C (Purge and Trap) Sample Preparation:

Preparation Batch: BKB0458 Sample Size: 10 mL

Prepared: 02/21/2022 Final Volume: 10 mL

			Detection	Reporting			
Analyte	CAS Number	Dilution	Limit	Limit	Result	Units	Notes
Vinyl Chloride	75-01-4	1	0.08	0.20	ND	ug/L	U
cis-1,2-Dichloroethene	156-59-2	1	0.08	0.20	ND	ug/L	U
Trichloroethene	79-01-6	1	0.07	0.20	ND	ug/L	U
Tetrachloroethene	127-18-4	1	0.09	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4				80-129 %	110	%	
Surrogate: Toluene-d8				80-120 %	97.4	%	
Surrogate: 4-Bromofluorobenzene				80-120 %	92.6	%	
Surrogate: 1,2-Dichlorobenzene-d4				80-120 %	102	%	



The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

PO Box 3707 M/S 1W-12 Project Number: Boeing Renton Regional GW Building 4-78/79 Reported:

Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

B172-01-021722 22B0253-06 (Water)

Wet Chemistry

 Method: SM 5310 B-00
 Sampled: 02/17/2022 11:52

 Instrument: SLAB Analyst:
 Analyzed: 03/07/2022 00:00

Analysis by: Spectra Laboratories

Sample Preparation: Preparation Method: No Prep Wet Chem Extract ID: 22B0253-06

Preparation Batch: B030722

Prepared: 02/17/2022 Final Volume:

			Detection	Reporting			
Analyte	CAS Number	Dilution	Limit	Limit	Result	Units	Notes
Total Organic Carbon		1	0.5	0.5	1.30	mø/L	



Extract ID: 22B0253-07 B

The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

PO Box 3707 M/S 1W-12 Project Number: Boeing Renton Regional GW Building 4-78/79 Reported:

Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

TripBlank 22B0253-07 (Water)

Volatile Organic Compounds

 Method: EPA 8260D
 Sampled: 02/17/2022 09:33

 Instrument: NT2
 Analyst: PKC

 Analyzed: 02/21/2022 13:31

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)

Preparation Batch: BKB0458 Sample Size: 10 mL Prepared: 02/21/2022 Final Volume: 10 mL

Detection Reporting CAS Number Dilution Limit Units Analyte Result Notes Vinyl Chloride 75-01-4 ND U 0.08 0.20 ug/L cis-1,2-Dichloroethene 156-59-2 ND U 1 0.080.20 ug/L Benzene 71-43-2 1 0.05 0.20 ND ug/L U Trichloroethene 79-01-6 0.07 0.20 ND U 1 ug/L Tetrachloroethene 127-18-4 1 0.09 0.20 ND U ug/L Surrogate: 1,2-Dichloroethane-d4 80-129 % 97.2 % Surrogate: Toluene-d8 80-120 % 97.4 % Surrogate: 4-Bromofluorobenzene 80-120 % 95.7 % 80-120 % Surrogate: 1,2-Dichlorobenzene-d4 102 %



The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

PO Box 3707 M/S 1W-12 Project Number: Boeing Renton Regional GW Building 4-78/79 Reported:
Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BKB0448 - EPA 5030C (Purge and Trap)

Instrument: NT2 Analyst: PKC

		Detection	Reporting		Spike	Source		%REC		RPD	
QC Sample/Analyte	Result	Limit	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Blank (BKB0448-BLK2)				Prepa	ared: 18-Feb	-2022 Aı	nalyzed: 18-I	Feb-2022 12	2:38		
Vinyl Chloride	ND	0.08	0.20	ug/L							U
cis-1,2-Dichloroethene	ND	0.08	0.20	ug/L							U
Benzene	ND	0.05	0.20	ug/L							U
Trichloroethene	ND	0.07	0.20	ug/L							U
Surrogate: 1,2-Dichloroethane-d4	5.13			ug/L	5.00		103	80-129			
Surrogate: Toluene-d8	4.91			ug/L	5.00		98.1	80-120			
Surrogate: 4-Bromofluorobenzene	4.77			ug/L	5.00		95.4	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.91			ug/L	5.00		98.1	80-120			
LCS (BKB0448-BS2)				Prepa	ared: 18-Feb	-2022 At	nalyzed: 18-I	Feb-2022 11	:14		
Vinyl Chloride	11.8	0.08	0.20	ug/L	10.0		118	66-133			
cis-1,2-Dichloroethene	9.62	0.08	0.20	ug/L	10.0		96.2	80-121			
Benzene	9.70	0.05	0.20	ug/L	10.0		97.0	80-120			
Trichloroethene	9.70	0.07	0.20	ug/L	10.0		97.0	80-120			
Surrogate: 1,2-Dichloroethane-d4	5.40			ug/L	5.00		108	80-129			
Surrogate: Toluene-d8	4.99			ug/L	5.00		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	5.12			ug/L	5.00		102	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.82			ug/L	5.00		96.4	80-120			
LCS Dup (BKB0448-BSD2)				Prepa	ared: 18-Feb	-2022 A	nalyzed: 18-I	Feb-2022 11	:56		
Vinyl Chloride	11.6	0.08	0.20	ug/L	10.0		116	66-133	1.24	30	
cis-1,2-Dichloroethene	9.95	0.08	0.20	ug/L	10.0		99.5	80-121	3.40	30	
Benzene	10.2	0.05	0.20	ug/L	10.0		102	80-120	4.91	30	
Trichloroethene	10.3	0.07	0.20	ug/L	10.0		103	80-120	6.33	30	
Surrogate: 1,2-Dichloroethane-d4	5.05			ug/L	5.00		101	80-129			
Surrogate: Toluene-d8	5.00			ug/L	5.00		99.9	80-120			
Surrogate: 4-Bromofluorobenzene	5.29			ug/L	5.00		106	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.01			ug/L	5.00		100	80-120			



The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

PO Box 3707 M/S 1W-12 Project Number: Boeing Renton Regional GW Building 4-78/79 Reported:
Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BKB0458 - EPA 5030C (Purge and Trap)

Instrument: NT2 Analyst: PKC

		Detection	Reporting	TT 1.	Spike	Source	A/DEC	%REC	DDD	RPD	3.7
QC Sample/Analyte	Result	Limit	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Blank (BKB0458-BLK2)				Prepa	ared: 21-Feb	o-2022 A	nalyzed: 21-I	Feb-2022 12	:50		
Vinyl Chloride	ND	0.08	0.20	ug/L							U
cis-1,2-Dichloroethene	ND	0.08	0.20	ug/L							U
Benzene	ND	0.05	0.20	ug/L							U
Trichloroethene	ND	0.07	0.20	ug/L							U
Tetrachloroethene	ND	0.09	0.20	ug/L							U
Surrogate: 1,2-Dichloroethane-d4	4.99			ug/L	5.00		99.8	80-129			
Surrogate: Toluene-d8	4.76			ug/L	5.00		95.1	80-120			
Surrogate: 4-Bromofluorobenzene	4.95			ug/L	5.00		99.0	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.15			ug/L	5.00		103	80-120			
LCS (BKB0458-BS2)				Prepa	ared: 21-Feb	o-2022 A	nalyzed: 21-I	Feb-2022 11	:46		
Vinyl Chloride	9.42	0.08	0.20	ug/L	10.0		94.2	66-133			
cis-1,2-Dichloroethene	9.62	0.08	0.20	ug/L	10.0		96.2	80-121			
Benzene	9.74	0.05	0.20	ug/L	10.0		97.4	80-120			
Trichloroethene	9.91	0.07	0.20	ug/L	10.0		99.1	80-120			
Tetrachloroethene	9.59	0.09	0.20	ug/L	10.0		95.9	80-120			
Surrogate: 1,2-Dichloroethane-d4	4.89			ug/L	5.00		97.9	80-129			
Surrogate: Toluene-d8	5.00			ug/L	5.00		100	80-120			
Surrogate: 4-Bromofluorobenzene	5.07			ug/L	5.00		101	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.13			ug/L	5.00		103	80-120			
LCS Dup (BKB0458-BSD2)				Prepa	ared: 21-Feb	o-2022 A	nalyzed: 21-I	Feb-2022 12	:07		
Vinyl Chloride	10.2	0.08	0.20	ug/L	10.0		102	66-133	7.57	30	
cis-1,2-Dichloroethene	9.83	0.08	0.20	ug/L	10.0		98.3	80-121	2.23	30	
Benzene	10.2	0.05	0.20	ug/L	10.0		102	80-120	4.61	30	
Trichloroethene	10.3	0.07	0.20	ug/L	10.0		103	80-120	3.39	30	
Tetrachloroethene	9.75	0.09	0.20	ug/L	10.0		97.5	80-120	1.62	30	
Surrogate: 1,2-Dichloroethane-d4	4.68			ug/L	5.00		93.7	80-129			
Surrogate: Toluene-d8	5.01			ug/L	5.00		100	80-120			
Surrogate: 4-Bromofluorobenzene	5.33			ug/L	5.00		107	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.98			ug/L	5.00		99.6	80-120			

The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

PO Box 3707 M/S 1W-12 Project Number: Boeing Renton Regional GW Building 4-78/79 Reported:

Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKB0447 - No Prep Wet Chem

Instrument: IC930 Analyst: CKI

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKB0447-BLK1)				Prepa	ared: 18-Feb	-2022 Ana	ılyzed: 18-l	Feb-2022 13	:42		
Nitrate-N	ND	0.100	0.100	mg/L							U
Nitrite-N	ND	0.100	0.100	mg/L							U
LCS (BKB0447-BS1)				Prepa	ared: 18-Feb	-2022 Ana	ılyzed: 18-l	Feb-2022 14	:02		
Nitrate-N	5.00	0.100	0.100	mg/L	5.00		99.9	90-110			
Nitrite-N	5.29	0.100	0.100	mg/L	5.00		106	90-110			
Duplicate (BKB0447-DUP1)	S	ource: 22B	0253-02	Prepa	ared: 18-Feb	-2022 Ana	ılyzed: 18-l	Feb-2022 14	:42		
Nitrate-N	ND	0.100	0.100	mg/L		ND					U
Nitrite-N	ND	0.100	0.100	mg/L		ND					U
Matrix Spike (BKB0447-MS1)	S	ource: 22B	0253-02	Prepa	ared: 18-Feb	-2022 Ana	ılyzed: 18-l	Feb-2022 15	:02		
Nitrate-N	1.86	0.100	0.100	mg/L	2.00	ND	93.0	75-125			
Nitrite-N	1.71	0.100	0.100	mg/L	2.00	ND	85.6	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

PO Box 3707 M/S 1W-12 Project Number: Boeing Renton Regional GW Building 4-78/79 Reported:

Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BKB0505 - No Prep Wet Chem

Instrument: IC930 Analyst: CKI

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BKB0505-BLK1)				Prepa	ared: 22-Feb	-2022 Ana	lyzed: 22-F	eb-2022 14	:59		
Nitrate-N	ND	0.100	0.100	mg/L							U
Nitrite-N	ND	0.100	0.100	mg/L							U
Sulfate	ND	0.100	0.100	mg/L							U
LCS (BKB0505-BS1)				Prepa	ared: 22-Feb	-2022 Ana	lyzed: 22-F	eb-2022 15	:20		
Nitrate-N	4.87	0.100	0.100	mg/L	5.00		97.5	90-110			
Nitrite-N	5.26	0.100	0.100	mg/L	5.00		105	90-110			
Sulfate	4.84	0.100	0.100	mg/L	5.00		96.8	90-110			



The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

PO Box 3707 M/S 1W-12 Project Number: Boeing Renton Regional GW Building 4-78/79 Reported:

Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

Analysis by: Spectra Laboratories

Wet Chemistry - Quality Control

Batch B030722 - No Prep Wet Chem

Instrument: SLAB Analyst:

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes			
BLK (B030722-BLK1)				Prepa	Prepared: Analyzed: 07-Mar-2022 00:00									
Total Organic Carbon	ND	0.5	0.5	mg/L		0-0								
BS (B030722-BS1)				Prepa	red: Anal	d: Analyzed: 07-Mar-2022 00:00								
Total Organic Carbon	10.12	0.5	0.5	mg/L			101.2	75-125						





The Boeing Company Project: Boeing Renton Regional GW Building 4-78/79

Certifications

PO Box 3707 M/S 1W-12 Project Number: Boeing Renton Regional GW Building 4-78/79 Reported:

Seattle WA, 98124 Project Manager: Nick Garson 29-Mar-2022 15:31

Certified Analyses included in this Report

Analyte

,a., to			
EPA 300.0 in Water			
Nitrate-N	DoD-ELAP,WADOE,WA-DW,NELAP		
Nitrite-N	DoD-ELAP,WADOE,WA-DW,NELAP		
Sulfate	DoD-ELAP,WADOE,WA-DW,NELAP		
EPA 8260D in Water			
Chloromethane	DoD-ELAP,ADEC,NELAP,WADOE		
Vinyl Chloride	DoD-ELAP,ADEC,NELAP,WADOE		
Bromomethane	DoD-ELAP,ADEC,NELAP,WADOE		
Chloroethane	DoD-ELAP,ADEC,NELAP,WADOE		
Trichlorofluoromethane	DoD-ELAP,ADEC,NELAP,WADOE		
Acrolein	DoD-ELAP,NELAP,WADOE		
1,1,2-Trichloro-1,2,2-Trifluoroethane	DoD-ELAP,ADEC,NELAP,WADOE		
Acetone	DoD-ELAP,ADEC,NELAP,WADOE		
1,1-Dichloroethene	DoD-ELAP,ADEC,NELAP,WADOE		
lodomethane	DoD-ELAP,NELAP,WADOE		
Methylene Chloride	DoD-ELAP,ADEC,NELAP,WADOE		
Acrylonitrile	DoD-ELAP,NELAP,WADOE		
Carbon Disulfide	DoD-ELAP,NELAP,WADOE		
trans-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,WADOE		
Vinyl Acetate	DoD-ELAP,NELAP,WADOE		
1,1-Dichloroethane	DoD-ELAP,ADEC,NELAP,WADOE		
2-Butanone	DoD-ELAP,NELAP,WADOE		
2,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,WADOE		
cis-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,WADOE		
Chloroform	DoD-ELAP,ADEC,NELAP,WADOE		
Bromochloromethane	DoD-ELAP,ADEC,NELAP,WADOE		
1,1,1-Trichloroethane	DoD-ELAP,ADEC,NELAP,WADOE		
1,1-Dichloropropene	DoD-ELAP,ADEC,NELAP,WADOE		
Carbon tetrachloride	DoD-ELAP,ADEC,NELAP,WADOE		
1,2-Dichloroethane	DoD-ELAP,ADEC,NELAP,WADOE		
Benzene	DoD-ELAP,ADEC,NELAP,WADOE		
Trichloroethene	DoD-ELAP,ADEC,NELAP,WADOE		
1,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,WADOE		
Bromodichloromethane	DoD-ELAP,ADEC,NELAP,WADOE		
Dibromomethane	DoD-ELAP,ADEC,NELAP,WADOE		
2-Chloroethyl vinyl ether	DoD-ELAP,ADEC,NELAP,WADOE		



1,2,3-Trichlorobenzene

Analytical Report

The Boeing Company	Project: Boeing Renton Regional GW Building 4-78/79	
PO Box 3707 M/S 1W-12	Project Number: Boeing Renton Regional GW Building 4-78/79	Reported:
Seattle WA, 98124	Project Manager: Nick Garson	29-Mar-2022 15:31

4-Methyl-2-Pentanone DoD-ELAP, NELAP, WADOE cis-1,3-Dichloropropene DoD-ELAP, ADEC, NELAP, WADOE Toluene DoD-ELAP, ADEC, NELAP, WADOE trans-1,3-Dichloropropene DoD-ELAP, ADEC, NELAP, WADOE DoD-ELAP, NELAP, WADOE 2-Hexanone 1,1,2-Trichloroethane DoD-ELAP, ADEC, NELAP, WADOE 1,3-Dichloropropane DoD-ELAP, ADEC, NELAP, WADOE Tetrachloroethene DoD-ELAP, ADEC, NELAP, WADOE Dibromochloromethane DoD-ELAP, ADEC, NELAP, WADOE 1.2-Dibromoethane DoD-ELAP, NELAP, WADOE Chlorobenzene DoD-ELAP, ADEC, NELAP, WADOE Ethylbenzene DoD-ELAP, ADEC, NELAP, WADOE 1,1,1,2-Tetrachloroethane DoD-ELAP, ADEC, NELAP, WADOE m,p-Xylene DoD-ELAP, ADEC, NELAP, WADOE o-Xylene DoD-ELAP, ADEC, NELAP, WADOE Styrene DoD-ELAP, NELAP, WADOE **Bromoform** DoD-ELAP, NELAP, WADOE 1,1,2,2-Tetrachloroethane DoD-ELAP, ADEC, NELAP, WADOE 1,2,3-Trichloropropane DoD-ELAP, ADEC, NELAP, WADOE DoD-ELAP, ADEC, NELAP, WADOE trans-1,4-Dichloro 2-Butene n-Propylbenzene DoD-ELAP, NELAP, WADOE Bromobenzene DoD-ELAP, NELAP, WADOE Isopropyl Benzene DoD-ELAP, NELAP, WADOE 2-Chlorotoluene DoD-ELAP, ADEC, NELAP, WADOE 4-Chlorotoluene DoD-ELAP, ADEC, NELAP, WADOE t-Butylbenzene DoD-ELAP, NELAP, WADOE 1,3,5-Trimethylbenzene DoD-ELAP, NELAP, WADOE 1,2,4-Trimethylbenzene DoD-ELAP, NELAP, WADOE s-Butylbenzene DoD-ELAP, NELAP, WADOE 4-Isopropyl Toluene DoD-ELAP, NELAP, WADOE 1,3-Dichlorobenzene DoD-ELAP, ADEC, NELAP, WADOE 1,4-Dichlorobenzene DoD-ELAP, ADEC, NELAP, WADOE n-Butylbenzene DoD-ELAP, NELAP, WADOE 1,2-Dichlorobenzene DoD-ELAP, ADEC, NELAP, WADOE DoD-ELAP, ADEC, NELAP, WADOE 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene DoD-ELAP, ADEC, NELAP, WADOE Hexachloro-1,3-Butadiene DoD-ELAP, ADEC, NELAP, WADOE Naphthalene DoD-ELAP, ADEC, NELAP, WADOE

DoD-ELAP, ADEC, NELAP, WADOE



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Dichlorodifluoromethane DoD-ELAP,ADEC,NELAP,WADOE Methyl tert-butyl Ether DoD-ELAP,ADEC,NELAP,WADOE

n-Hexane WADOE 2-Pentanone WADOE

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022





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Notes and Definitions

*	Flagged v	alue is not	within est	ablished	control limits.
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E The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)

H Hold time violation - Hold time was exceeded.

J Estimated concentration value detected below the reporting limit.

U This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

[2C] Indicates this result was quantified on the second column on a dual column analysis.