

Groundwater Monitoring Report

RCRA Corrective Action Program
Boeing Renton Facility
Wood Project # PS20203450.2021

Prepared for:

The Boeing Company

Seattle, Washington

November 29, 2021



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Prepared for:

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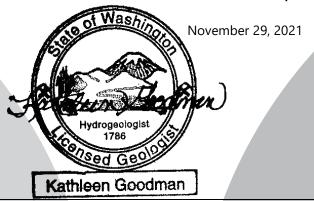
November 29, 2021

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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 the Order and as outlined in the Engineering Design Report (AMEC, 2014).

Wood Environment & Infrastructure Solutions, Inc.



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 points of compliance

CUL cleanup level

CVOC chlorinated volatile organic compound

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 Company Renton Facility

TOC total organic carbon

TPH total petroleum hydrocarbons

TPH-D total petroleum hydrocarbons – diesel

TPH-O total petroleum hydrocarbons – oil

VC vinyl chloride

VOC volatile organic compound

Wood Wood Environment & Infrastructure Solutions, Inc.



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 dry season of 2021 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 recently submitted proposed updates to the CULs (CALIBRE 2021a) 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 dry season 2021 for the period from May through October 2021. In accordance with the requirements of FAthe Order, corrective action activities were conducted at the Facility as described in this report.

1.1 Work completed in the dry season 2021

The following work was completed during the dry season 2021 (the period from May through October 2021):

- CALIBRE submitted the Remedial Progress Review and Evaluation of Groundwater Cleanup Levels at the Boeing Renton Plan to Ecology on May 4, 2021 (CALIBRE, 2021a).
- On behalf of Boeing, Wood submitted the wet season 2021 Groundwater Monitoring Report to Ecology on May 26, 2021.
- Landau Associates completed the 2021 site-wide dry season sampling between August 10 and 17, 2021.
- Excavation of soil with total petroleum hydrocarbons (TPH) exceeding CULs in the unsaturated and smear zones occurred on the east side of Building 4-79 on September 9-10, 2021. More information is provided in Section 3.3.1.2.
- CALIBRE submitted the Excavation Report for Soil Remediation at Building 4-78/79 on October 21, 2021 (CALIBRE, 2021b).



- The SVE system in SWMU-172 and SWMU-174 operated throughout the dry season.
- No active bioremediation was performed at the Facility during this reporting period.

1.2 Deviations from required tasks

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

1.3 Deviations from CAP

No deviations from the CAP occurred during this activity period. 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 once each 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 30 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 2021–2022 wet season event:

- Well decommissioning and reinstallation in Apron R is planned to take place. Monitoring wells in the area of construction at Apron R were decommissioned in November 2019 and more are planned to be abandoned in late 2021/early 2022. Wells that are a part of the CMP Addendum #3 sampling program will be reinstalled prior to the next CMP sampling event.
- 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 early 2022, prior to the next CMP sampling event.
- Submittal to Ecology of a technical memorandum recommending closure/decommissioning of wells
 which are no longer required for investigative, bioremediation, or compliance monitoring purposes
 (November 10, 2021). Pending Ecology approval, well decommissioning activities are planned for the
 first quarter of 2022.
- 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 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 dry season of 2021. Operation of the SVE system at SWMU-172/174 continued during the dry 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, as well as the groundwater elevation 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 dry season.

3.1.2 Compliance monitoring plan deviations

No deviations from the CMP occurred for this area during the dry 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. COCs remained the same.

3.1.3 Water levels

The groundwater elevation measured during the dry season 2021 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 is based on historical information.

3.1.4 Groundwater monitoring results

Results for primary geochemical indicators are presented in Table 2; results for the SWMU-168 COCs 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 6.32. The CPOC well showed reducing conditions with low dissolved oxygen (DO) and a negative 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 above the CUL for VC at 0.359 micrograms per liter (μ g/L) although the results were flagged as estimated. Historical trends for VC in GW230I are shown in Appendix D and depicted on Figure 3.

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 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 dry season of 2021.

3.2.1.2 Soil vapor extraction and bioremediation operations

The SVE system operated throughout the dry season of 2021. 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 dry 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 dry season event 2021 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 was lower in the source area than in the downgradient plume area or the CPOC area, and pH was slightly acidic across SWMI-172 and SWMU-174. 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 0.51 milligrams per liter (mg/L) to 10.47 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 dry season 2021 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. 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: cis-1,2-DCE, PCE, TCE, and VC (and the associated duplicate sample),
- GW153S: cis-1,2-DCE, and VC

In the downgradient plume area groundwater CUL exceedances (Table 6) were:

- GW172S: cis-1,2-DCE and VC
- GW173S: cis-1,2-DCE and VC
- GW226S: cis-1,2-DCE and PCE.

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; both copper and lead were detected above the CULs in the groundwater from source area well GW152S, and downgradient plume area well GW173S; lead was detected above the CUL in the groundwater from downgradient plume area well GW172S. As shown in Figure 8, the arsenic concentrations in groundwater have generally remained stable over the past two years. The arsenic concentration in downgradient plume area well GW172S for this sampling event was the lowest ever detected in that well. The observed range of arsenic in groundwater is within the naturally occurring background arsenic range reported by Ecology¹ for Washington State (Ecology 2021).

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 all CPOC area wells; TCE was also detected above the CUL in the groundwater from GW235I; and VC was detected above the CUL in the groundwater from GW232S. PCE was not detected in the groundwater from the CPOC area wells. Figure 9 shows the COCs remained within stable ranges for each well

Arsenic was detected above the CUL in the groundwater from all CPOC area wells except for GW235I; lead was detected above the CUL in the groundwater from CPOC area wells GW234S and GW236S (Table 6).

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% of samples are non-detect but the natural background range includes more than 1,400 samples between 0.8-76 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.



Figure 10 shows arsenic, copper, and lead concentration trends since the beginning of compliance monitoring in groundwater from the CPOC area wells. As shown in Figure 10, arsenic remained within a stable range; copper and lead concentrations appear to be decreasing since the last sampling event.

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 dry season 2021. The cleanup remedy for this SMWU/AOC group is bioremediation and MA as well as excavation of TPH-contaminated soils; SVE has been discontinued and the system was decommissioned. Figure 11 shows the location of the September 2021 soil excavation, groundwater monitoring wells, extraction wells, abandoned wells, horizontal SVE wells, and bioremediation injection wells for this area. Recently 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

A work plan for removal of TPH-contaminated soil (CALIBRE, 2021c) was submitted to Ecology in January 2021 and approved by Ecology in February 2021. In preparation for the excavation activities, six bioremediation injection wells and two monitoring wells in the Building 4-78/79 SWMU/AOC were decommissioned in late August 2021. Monitoring wells GW031S and GW244S were decommissioned by over drilling and chip in place methods, respectively. The two monitoring wells are scheduled to be replaced in early 2022 to allow for sampling during the next CMP monitoring event.

The excavation work to remove the TPH-contaminated soil at Building 4-78/79 took place on September 9 and 10, 2021. The work went generally according to the work plan (CALIBRE, 2021c). The results from this work are detailed in the excavation report (CALIBRE, 2021b). A total of 302.7 tons of soil were removed and transported for disposal from the site. A high-pressure water line and other utilities are present in the vicinity of the work area, so the TPH could not be completely remediated. This was known prior to the start of work and was explained in the work plan. Two new horizontal injection lines were installed during the backfill process and a substrate injection is planned for November 2021. TPH will continue to be monitored in groundwater at this area.

3.3.1.2 Soil vapor extraction and bioremediation activities

SVE operations were discontinued in late 2018. Certain injection wells are still sampled to monitor the status of contaminants. Trend charts for *cis*-1,2-DCE and benzene in nitrate/sulfate injection wells are presented in Figure 12, and charts for TCE and VC in the injection wells are presented in Figure 13.

3.3.2 Compliance monitoring plan deviations

No deviations from the CMP occurred for this area during the dry season event. 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 dry 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 August 2021 is 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 low levels of DO, ranging from 0.43 to 1.31 mg/L, and high specific conductivity. The pH was between 6.0 and 6.5 standard units in all wells. The source area wells showed reducing conditions with low DO and mostly negative ORP readings. Results for the other primary geochemical indicators were generally consistent in all wells. TOC concentrations in source area wells ranged from 4.63 to 15.21 mg/L.

3.3.4.2 COC results for source area

Table 9 lists analytical results for COCs during the dry 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 was detected above the CUL in source area wells GW031S (and the duplicate sample), and GW033S. TPH-G was detected above the CUL in GW031S (and the duplicate sample). VC was detected above the CUL in source area wells GW033S, GW034S, and GW244S. Two detections of cis-1,2-DCE were present in groundwater from the source area, but neither exceeded the CUL of $0.70 \, \mu g/L$.

Figure 14 shows trends for VOCs in source area wells GW031S and GW033S. COCs shown for GW031S appear to be generally stable with greater annual fluctuations in benzene, which should be more consistent now that the remedial excavation was conducted in this area. The concentration of benzene in GW031S was the lowest detected since 2014. Trends in GW033S appear to show greater fluctuation, with cis-1,2-DCE and VC results decreasing significantly over the past year.

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 nine monitoring events. 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 dry season 2021 are summarized in Table 9. Trends for CPOC area wells GW143S, GW237S, and GW240D are shown in Figures 16 through 18. None of the COCs were detected in groundwater from the CPOC area wells at concentrations above the 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 wells and was not detected in GW237S during this event.

Cis-1,2-DCE has been detected sporadically in groundwater above CULs 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 two consecutive events; VC has not been detected in the CPOC area for four consecutive

events, except for in groundwater from GW237S. Figure 18 shows that TPH-G was only detected in GW237S since monitoring began and has been steadily decreasing.

3.4 Former Fuel Farm AOC group

This section describes corrective action activities conducted at the Former Fuel Farm AOC group during the dry season 2021. 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 dry season 2021.

3.4.2 Compliance monitoring plan deviations

No deviations from the CMP occurred for this area during the dry season. 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 dry 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 is shown based on historical information from this AOC and is to the northeast.

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. pH in CPOC area wells ranged from 6.08 to 6.54 standard units. DO was generally low across wells in this area, and ORP was negative. 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 dry 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 and Jet-A were detected above the CUL in GW221S and GW224S. TPH-O was not detected in any of the CPOC area wells. GW211S has had both TPH-D and Jet-A below the CUL for the past eight monitoring events. COC concentrations in GW221S have recovered to the lower end of the observed ranges for this well after a spike was observed approximately one year ago.

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 reconstruction. Therefore, no monitoring was conducted for this area during the dry season 2021. Monitoring wells in these areas were removed on November 25, 2019, and more are scheduled to be removed in late 2021/early 2022. Monitoring wells are planned to be reinstalled after construction is complete, currently anticipated for late 2022 with well installation tentatively planned for 2023. Groundwater monitoring activities are anticipated to resume in 2023.

3.6 AOC-003

This section describes corrective action activities conducted at AOC-003 for the dry season event. The cleanup remedy for this AOC is bioremediation and MA. Figure 21 shows the location of groundwater monitoring and bioremediation wells at AOC-003, 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 dry season event.

3.6.2 Compliance monitoring plan deviations

No deviations from the CMP occurred for this area during the dry 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 dry 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

Wells in this group were analyzed for VC. Both the source area and downgradient plume area well samples were above the CUL. 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 at concentrations above the CULs in the groundwater from both CPOC area wells (GW247S and GW248I). 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 dry season event. The cleanup remedy for this AOC is bioremediation and MA. Figure 24 shows the location of groundwater monitoring and bioremediation wells at AOC-004, 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 dry season event.

3.7.2 Compliance monitoring plan deviations

No deviations from the CMP occurred for this area during the dry 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 dry 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, low DO, and a negative ORP reading 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 0.001 mg/L. Figure 25 shows the historical trend for lead in GW250S.

3.8 AOC-060

This section describes corrective action activities conducted at AOC-060 for the dry season event. The cleanup remedy for this AOC is bioremediation and MA. Figure 26 shows the location of groundwater monitoring and bioremediation wells at AOC-060, 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 dry season event.

3.8.2 Compliance monitoring plan deviations

No deviations from the CMP occurred for this area during the dry 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 dry 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. The groundwater elevation data collected during this monitoring event did not allow for contouring of groundwater patterns, but the 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 to moderate DO. The pH was near neutral in this AOC, with only one well below 6.0 standard units, and all other wells between 6.0 and 7.0 standard units. TOC results ranged from 4.02 to 11.88 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 TCE. All downgradient plume area wells exceeded the CUL for VC. Figure 27 shows historical trends for COCs in 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.

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. A detection of TCE in GW253I was just over the laboratory reporting limit at $0.0202 \, \mu g/L$, and also exceeded the CUL. 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.

3.9 AOC-090

This section describes corrective action activities conducted at AOC-090 for the dry season event. The cleanup remedy for this AOC is bioremediation and MA. Figure 30 shows the location of groundwater monitoring and bioremediation wells at AOC-090, 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 dry season event.

3.9.2 Compliance monitoring plan deviations

No deviations from the CMP occurred for this area during the dry season. The wells and COCs monitored in this group changed with Ecology's acceptance of CMP Addendum #3 (CALIBRE, 2020). Wells GW163I, GW165I, GW177I, GW179I, and GW180S were removed from the monitoring program. Analytes were reduced to chlorinated VOCs (CVOCs) and TPH in GW189S, and VC in the remaining wells.

3.9.3 Water levels

Table 22 presents the groundwater elevations measured during the dry 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.

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 only one well below 6.0 standard units, and all other wells between 6.0 and 6.5 standard units. Specific conductivity and DO measurements were moderate across the wells in this area. TOC was measured at 9.58 mg/L in GW189S.

3.9.4.2 COC results for source and downgradient plume areas

Groundwater from source area well GW189S exceeded the CUL for cis-1,2-DCE, TCE, VC, and TPH-O; all other CVOC and TPH results were below CULs or not detected. Historical trends for GW189S show CVOCs are trending downward since the start of monitoring (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 collected 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 dry 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.

3.12.1 Cleanup action activities

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

3.12.2 Compliance monitoring plan deviations

No deviations from the CMP occurred for this area during the dry 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 dry season at Apron A are presented in Table 25 and on Figure 32. Groundwater elevations are not available because the top 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, moderate DO, near neutral pH of 6.21 standard units, and a negative ORP reading.

3.12.4.2 COC results

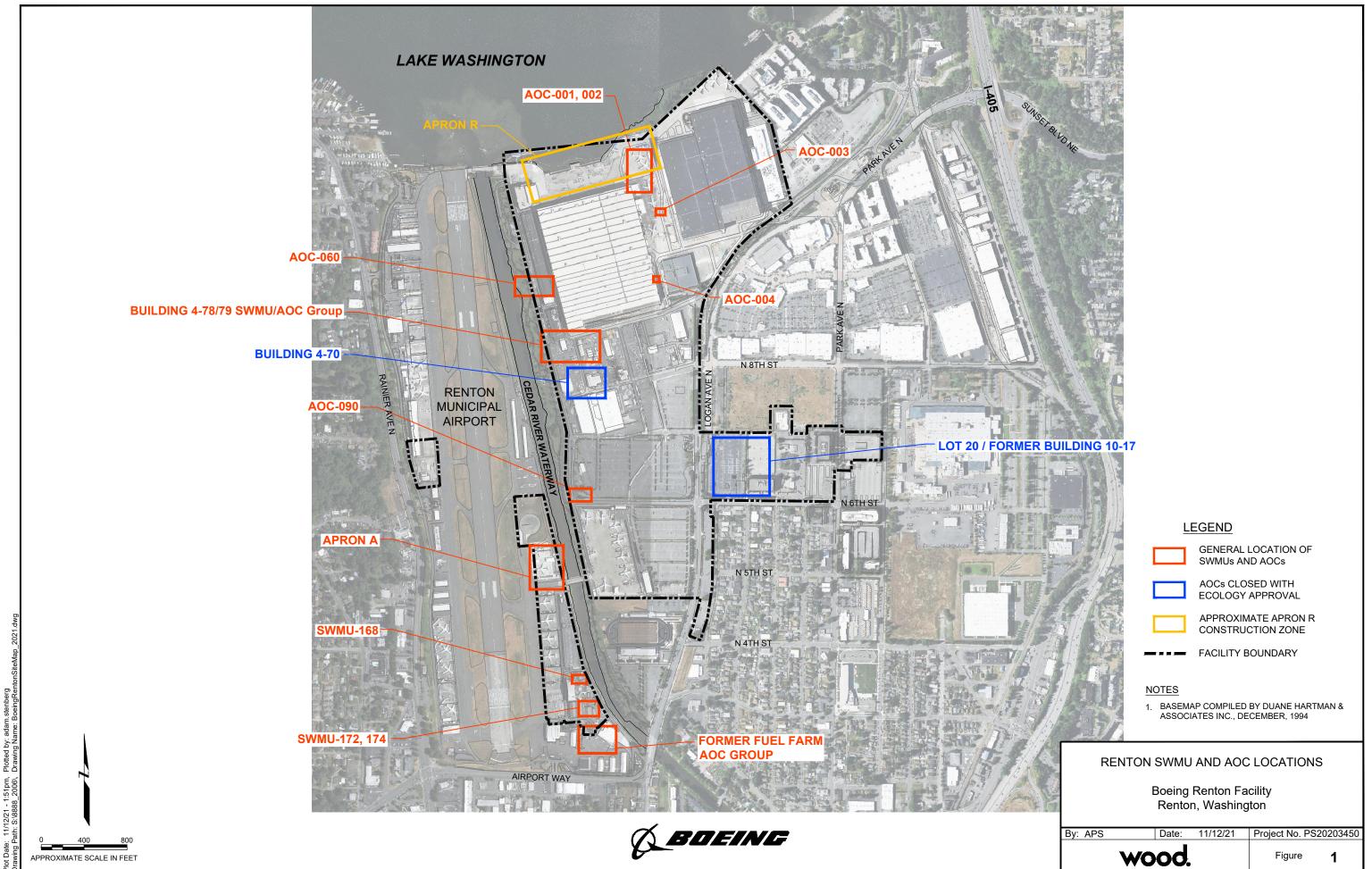
Analytes from Apron A samples do not have established CULs to compare to because they were added to the monitoring program after the CMP (Amec Foster Wheeler, 2016a) was in place. Additional monitoring of the soil and groundwater in Apron A was completed in 2016 and included installation of the monitoring 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 1.37 μ g/L. This exceeds the CUL for VC of 0.11 μ g/L in SWMU-168, the closest monitoring area to Apron A on the west side of the Cedar River Waterway.

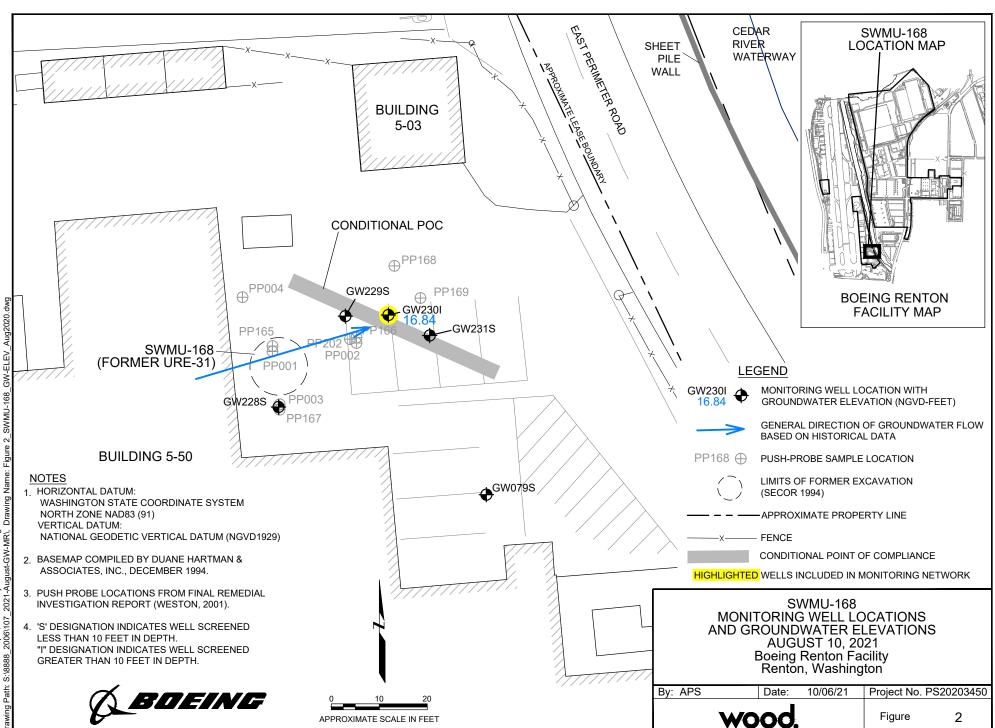
4.0 References

- 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), 2019a, Plan for Evaluation of Soils around Probe PP13 at Building 4-78/4-79 SWMU/AOC Group; Boeing Renton Site, April 29.
- ——, 2019b, Soil Probes at Building 4-78/4-79 SWMU/AOC Group; Boeing Renton Site, November 21.
- ———, 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.
- ——,2021a, Remedial Progress Review and Evaluation of Groundwater Cleanup Levels at the Boeing Renton Plan. May.
- ——, 2021b, Excavation of Fuel Contaminated Soil at Building 4-78/79 Area, Boeing Renton, October 21.
- ———, 2021c, Work Plan for Soil Excavation at Building 4-78/79 Area, Boeing Renton. January.
- 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), 2018, Quarterly report, second quarter 2018, RCRA Corrective Action Program, Boeing Renton Facility, Renton, Washington: Prepared for The Boeing Company.
- ———, 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, November 10.

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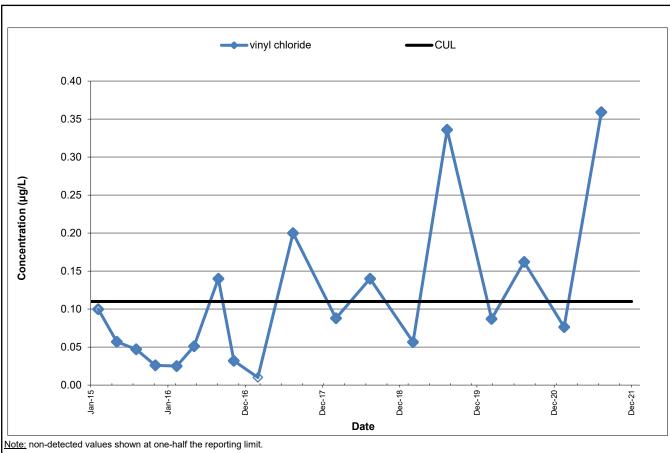
Figures





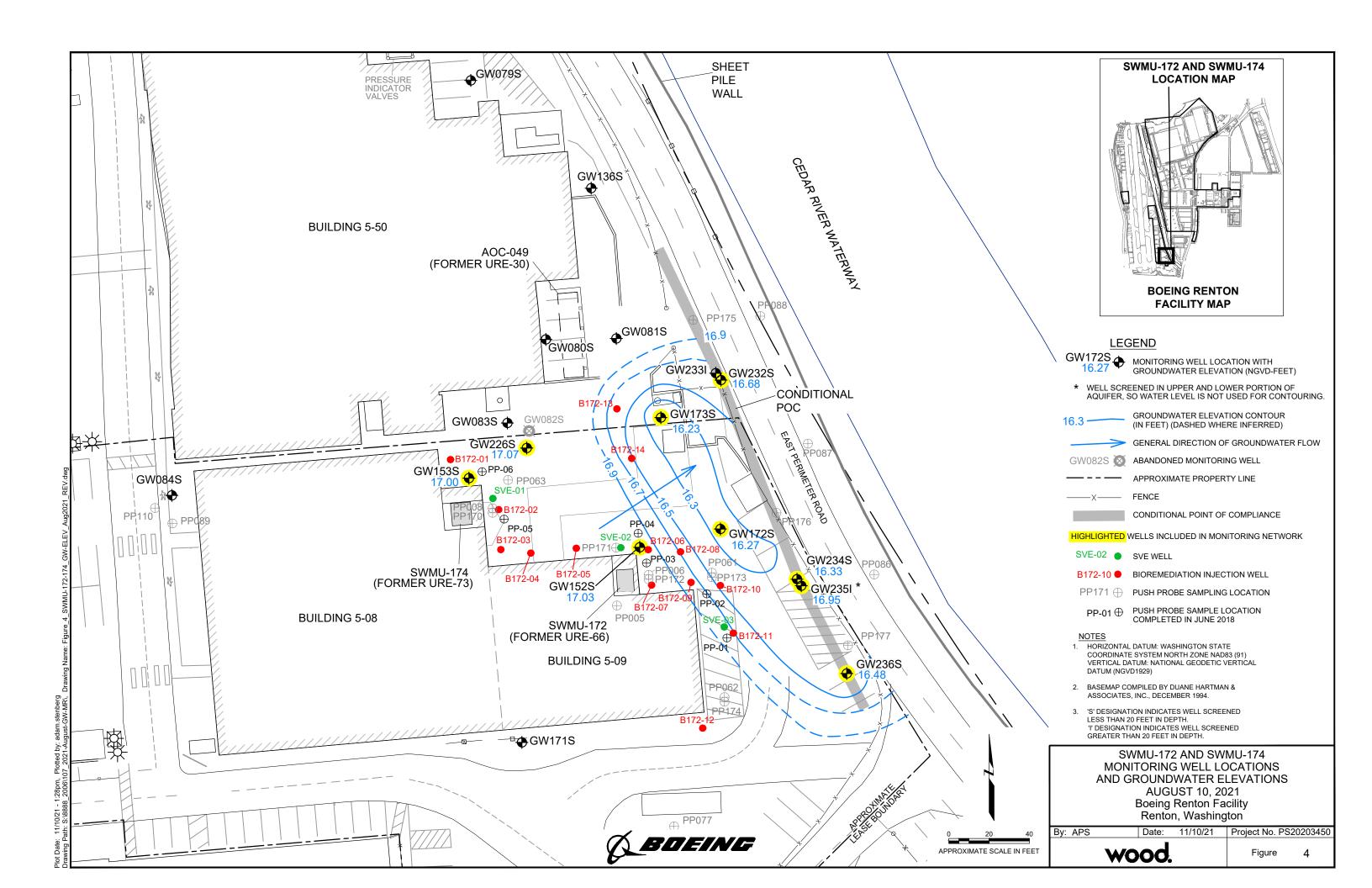
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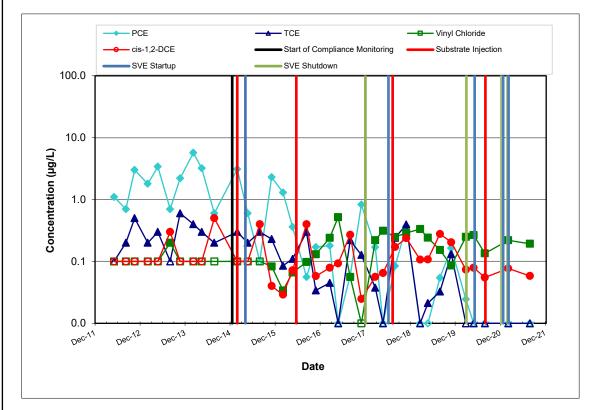


CPOC AREA WELL GW230I





SOURCE AREA WELL GW152S



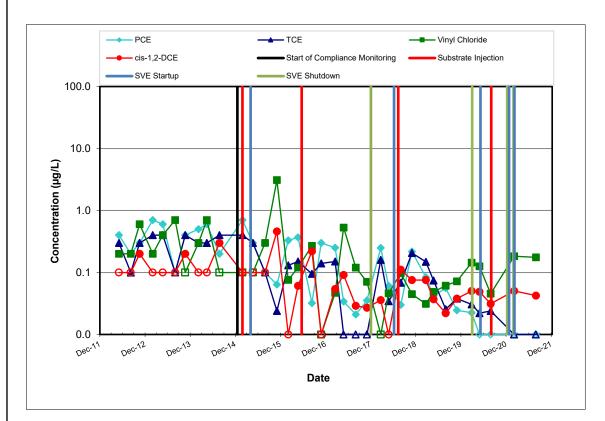
SOURCE AREA WELL GW153S

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



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DOWNGRADIENT PLUME AREA WELL GW172S



DOWNGRADIENT PLUME AREA WELL GW173S

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



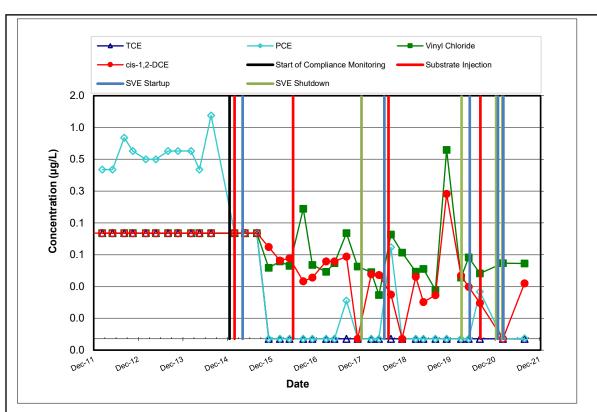
SWMU-172 AND SWMU-174 TREND PLOTS FOR DOWNGRADIENT PLUME AREA WELLS GW172S AND GW173S

Boeing Renton Facility

Renton, Washington

Project No. PS20203450

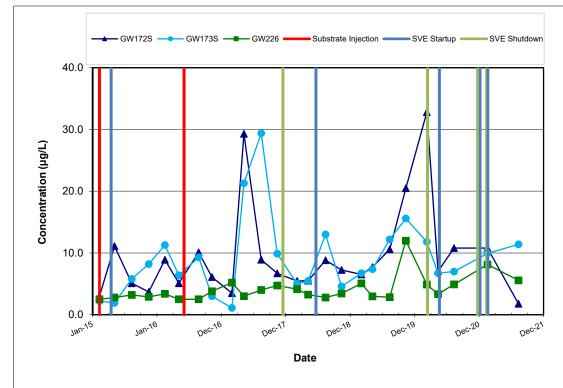
> Figure 6



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

DOWNGRADIENT PLUME AREA WELL GW226S

TOTAL ARSENIC IN SOURCE AREA WELLS



TOTAL ARSENIC IN DOWNGRADIENT PLUME AREA WELLS

 $\underline{\text{Note}} : \text{non-detected values shown at one-half the reporting limit and graphed with an open symbol.}$

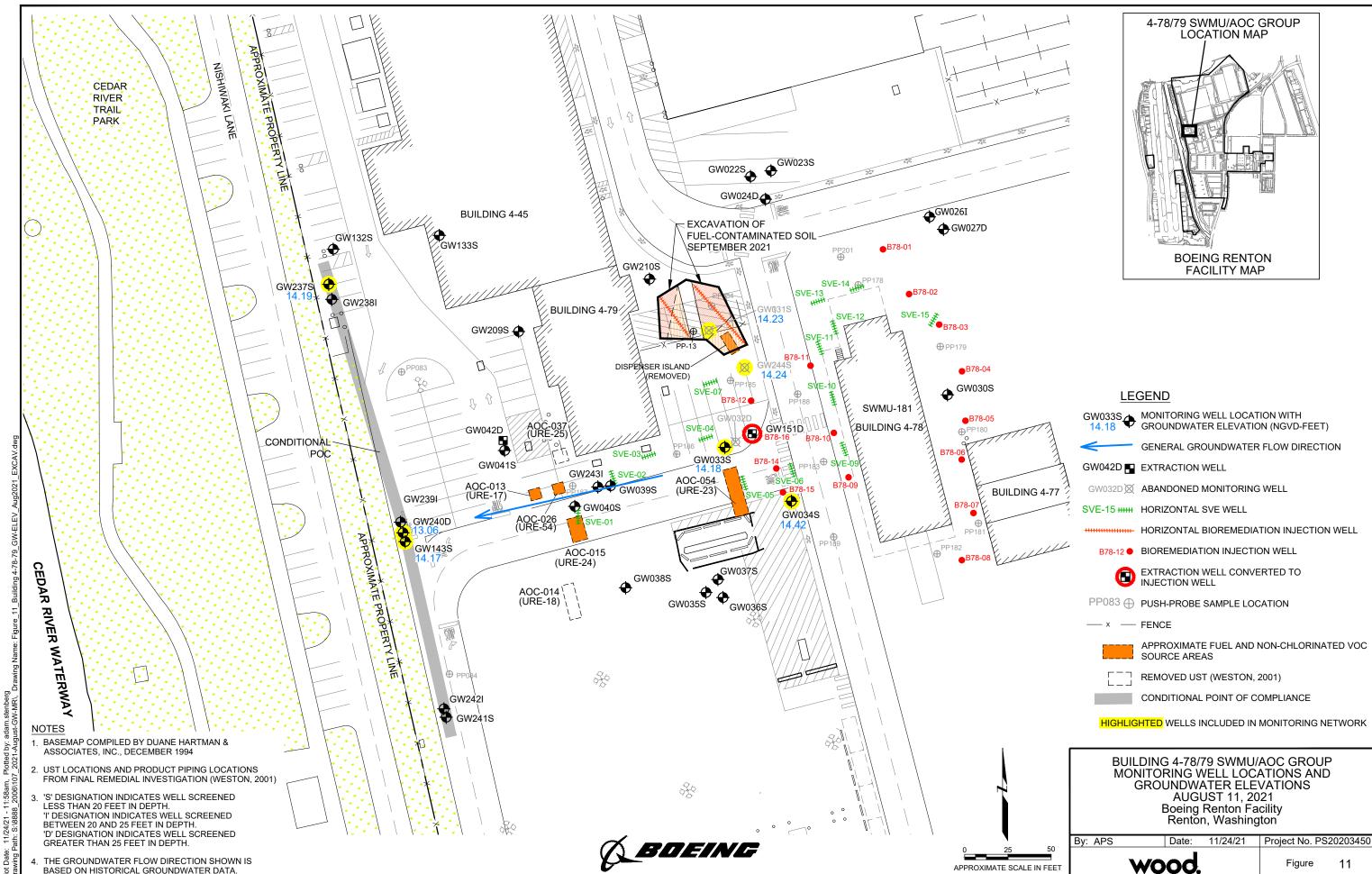


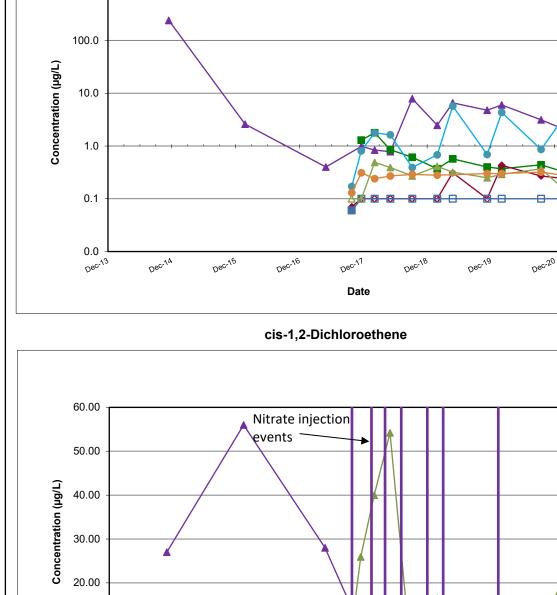
SWMU-172 AND SWMU-174 TREND PLOTS FOR ARSENIC IN SELECT SOURCE AREA AND DOWNGRADIENT PLUME AREA WELLS Boeing Renton Facility Renton, Washington

Project No. PS20203450

> Figure 8

Renton, Washington





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■ B78-17 **■** B78-18 **■** B78-19

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Benzene

Jan-18

Date

Jan-17

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

Jan-16

wood.

10.00

0.00

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

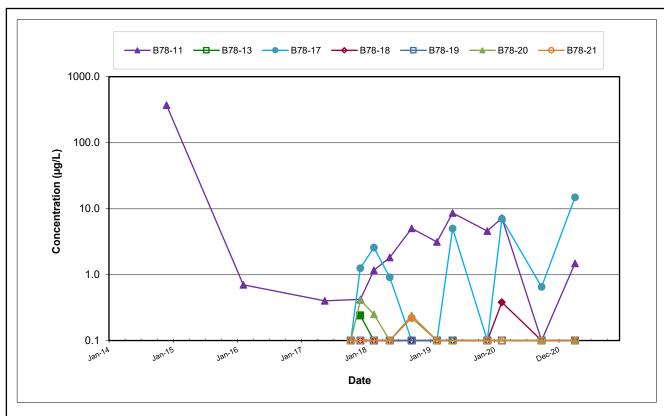
Jan-20

Dec-20

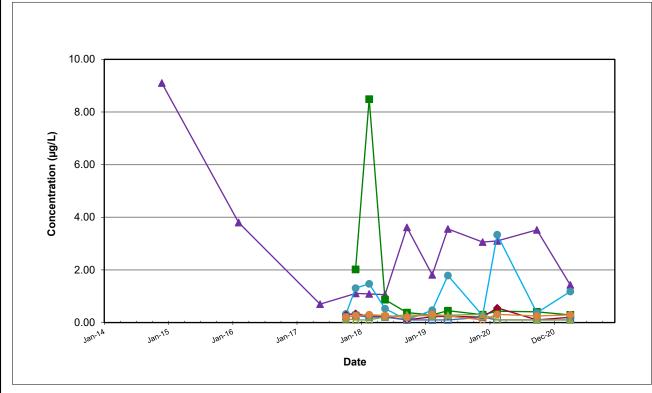
Project No. PS20203450

Figure 12





Trichloroethene



Vinyl Chloride

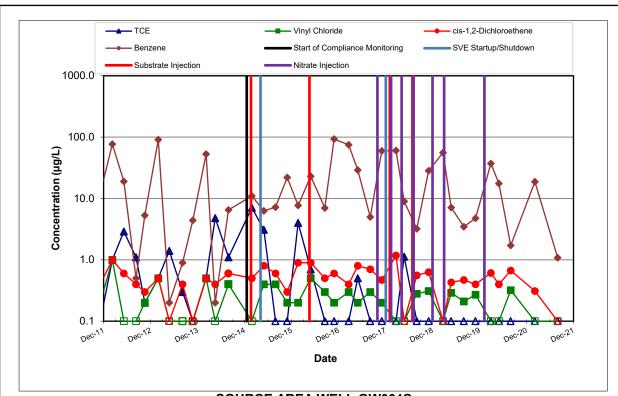
Note: non-detected values shown at one-half the reporting limit and graphed with an open symbol.



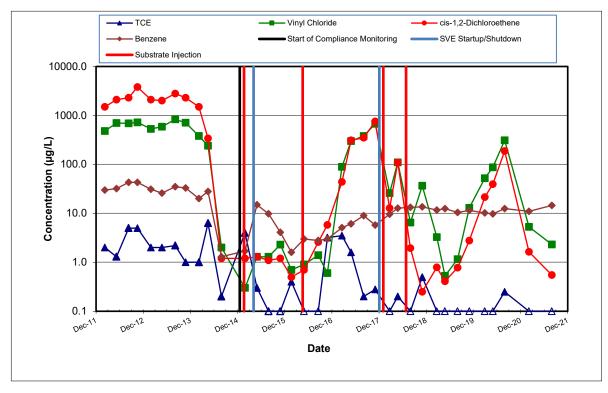
BUILDING 4-78/79 SWMU/AOC GROUP TREND PLOTS FOR TRICHLOROETHENE AND VINYL CHLORIDE IN INJECTION WELLS Boeing Renton Facility Renton, Washington

Project No. PS20203450





SOURCE AREA WELL GW031S



SOURCE AREA WELL GW033S

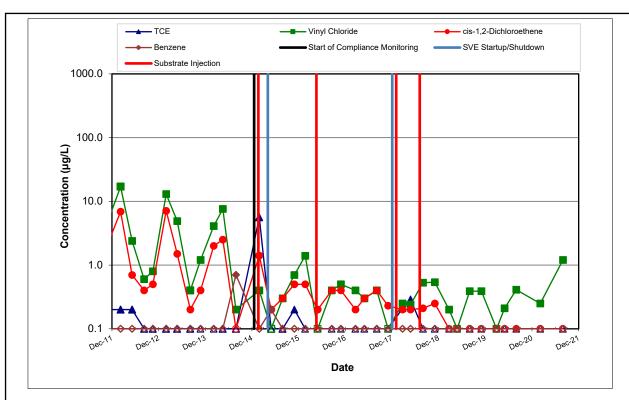
Note: non-detected values shown at one-half the reporting limit and graphed with an open symbol.



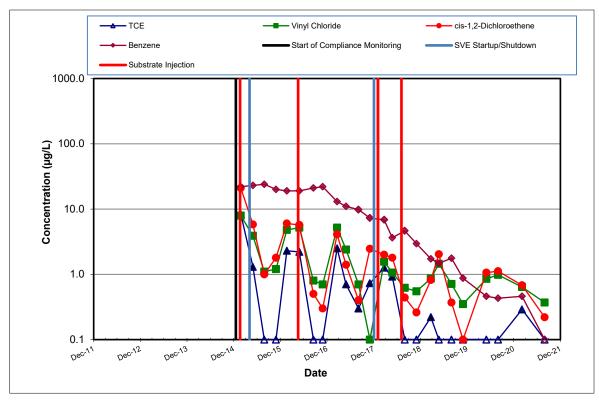
BUILDING 4-78/79 SWMU/AOC GROUP TREND PLOTS FOR SOURCE AREA WELLS GW031S AND GW033S Boeing Renton Facility Renton, Washington

Project No. PS20203450





SOURCE AREA WELL GW034S



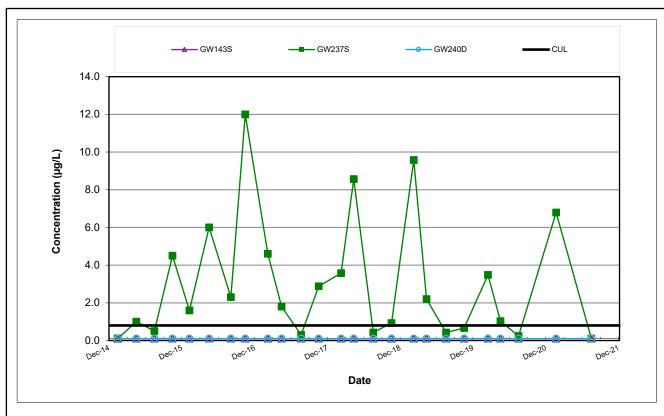
SOURCE AREA WELL GW244S

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

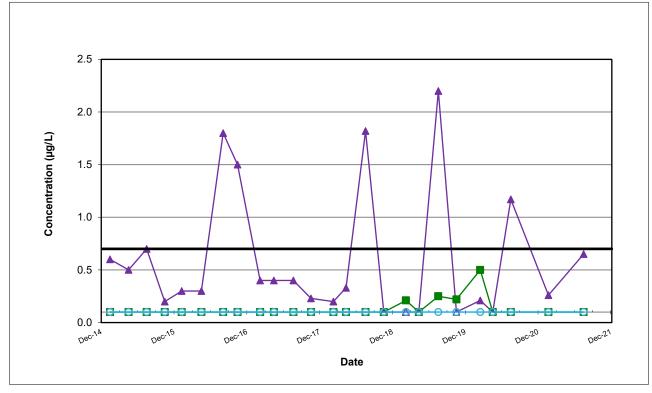


BLDG 4-78/79 SWMU/AOC GROUP TREND PLOTS FOR SOURCE AREA WELLS GW034S AND GW244S Boeing Renton Facility Project No. PS20203450





Benzene



cis-1,2-Dichloroethene

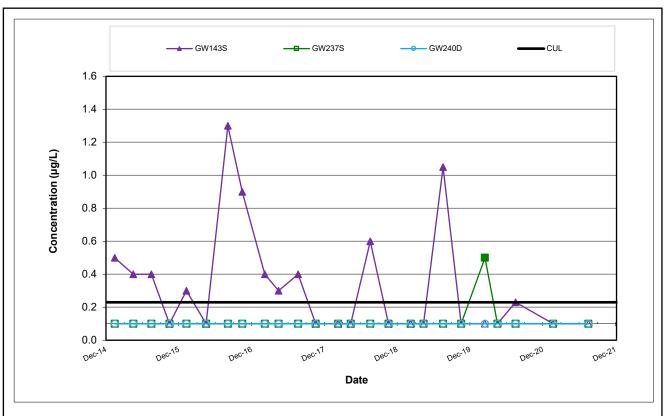
Note: non-detected values shown at one-half the reporting limit and graphed with an open symbol.

wood.

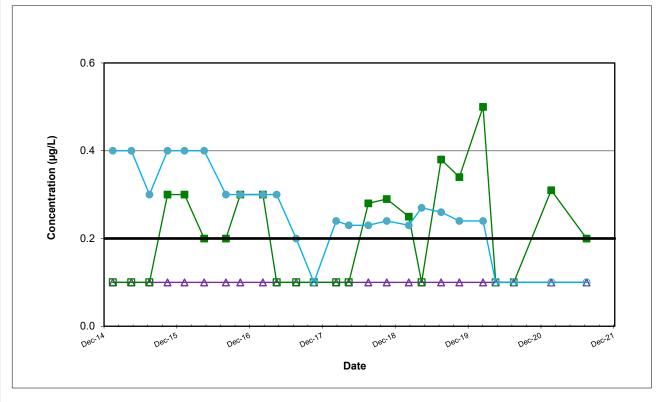
BUILDING 4-78/79 SWMU/AOC GROUP TREND PLOTS FOR BENZENE AND CIS-1,2-DICHLOROETHENE IN CPOC AREA WELLS Boeing Renton Facility Renton, Washington

Project No. PS20203450





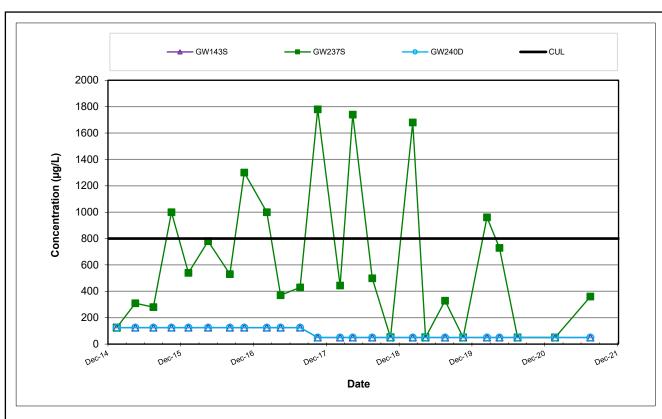
Trichloroethene



Vinyl Chloride

 $\underline{\text{Note}}\text{: non-detected values shown at one-half the reporting limit and graphed with an open symbol.}$

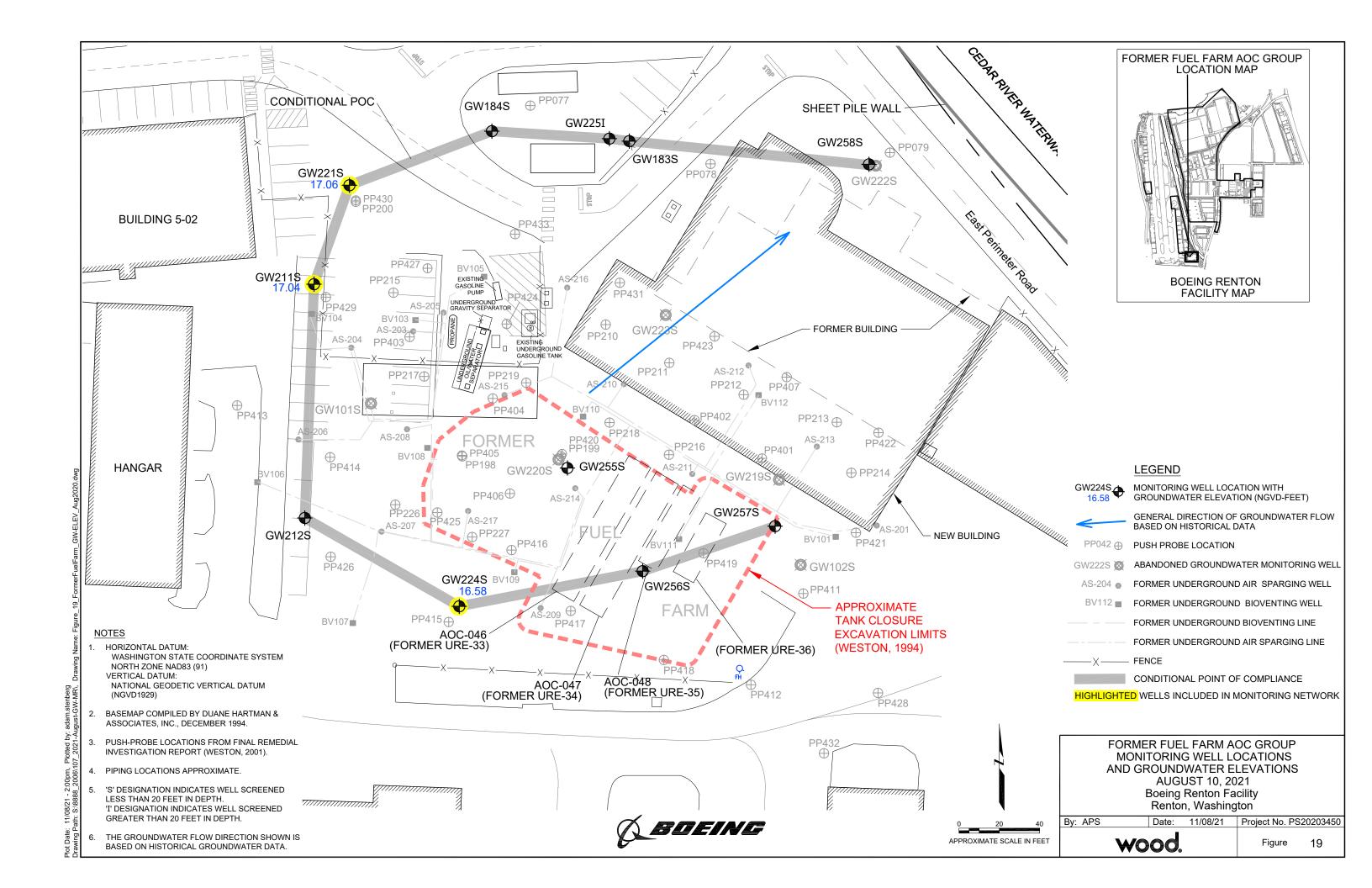


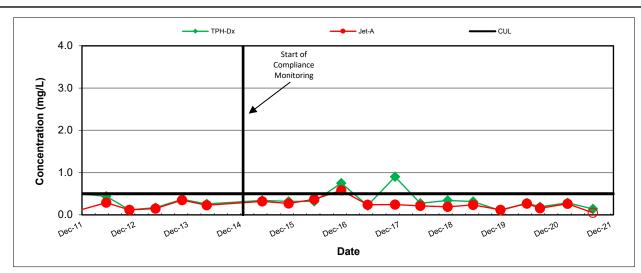


TPH as Gasoline

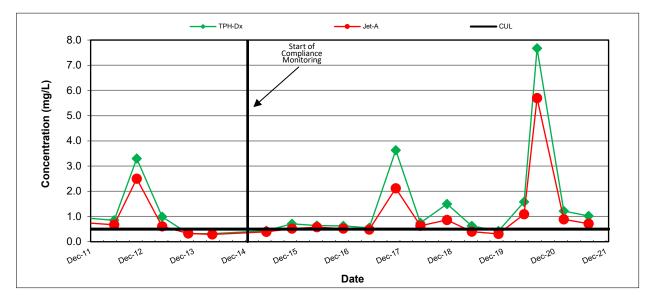
 $\underline{\text{Note}}\text{: non-detected values shown at one-half the reporting limit and graphed with an open symbol.}$



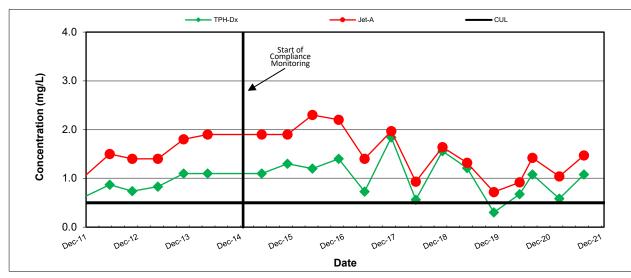




CPOC WELL GW211S



CPOC WELL GW221S

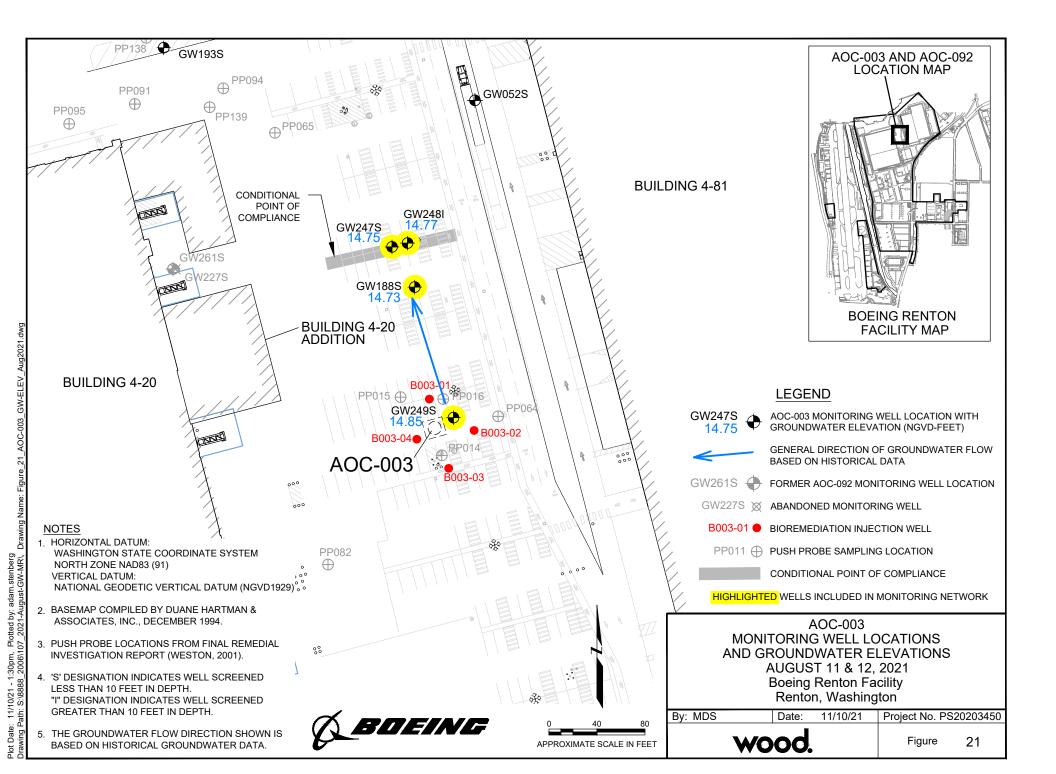


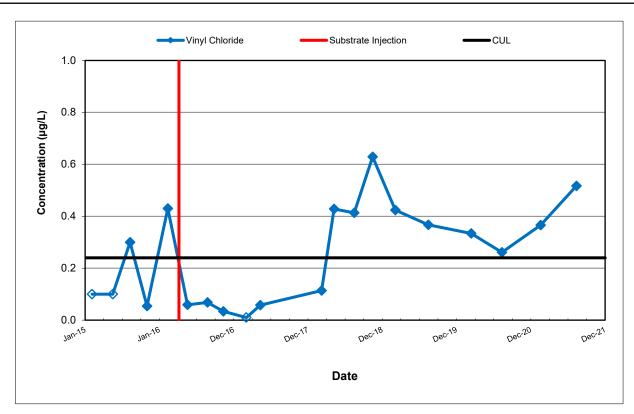
CPOC WELL GW224S

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

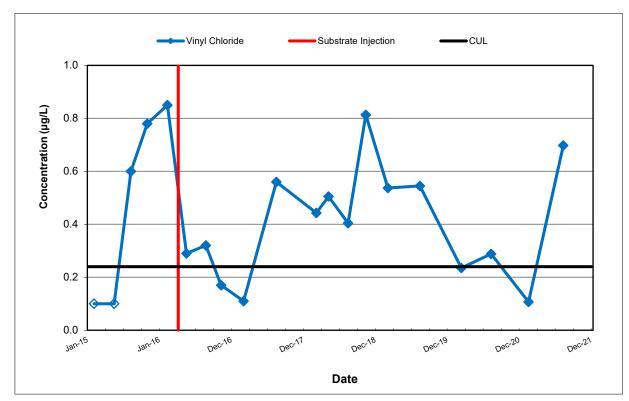


FORMER FUEL FARM AOC GROUP TREND PLOTS FOR CPOC AREA WELLS GW211S, GW221S, AND GW224S Boeing Renton Facility Renton, Washington





SOURCE AREA WELL GW249S



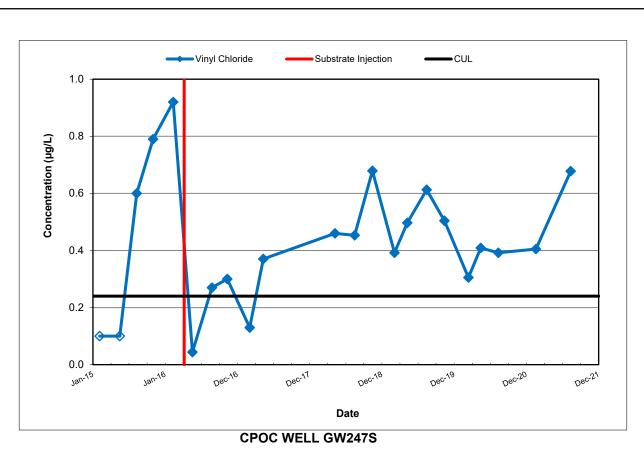
DOWNGRADIENT PLUME AREA WELL GW188S

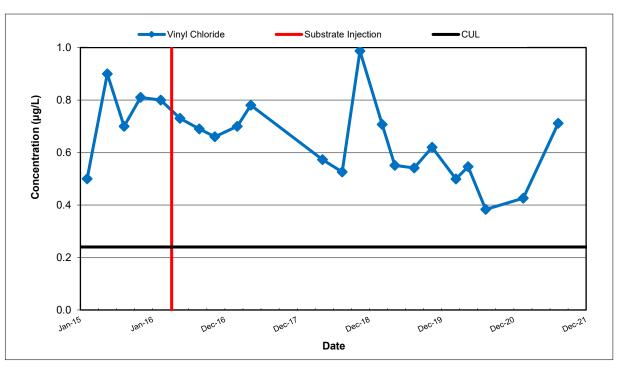
Note: non-detected values shown at one-half the reporting limit and with an open symbol



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

Project No. PS20203450



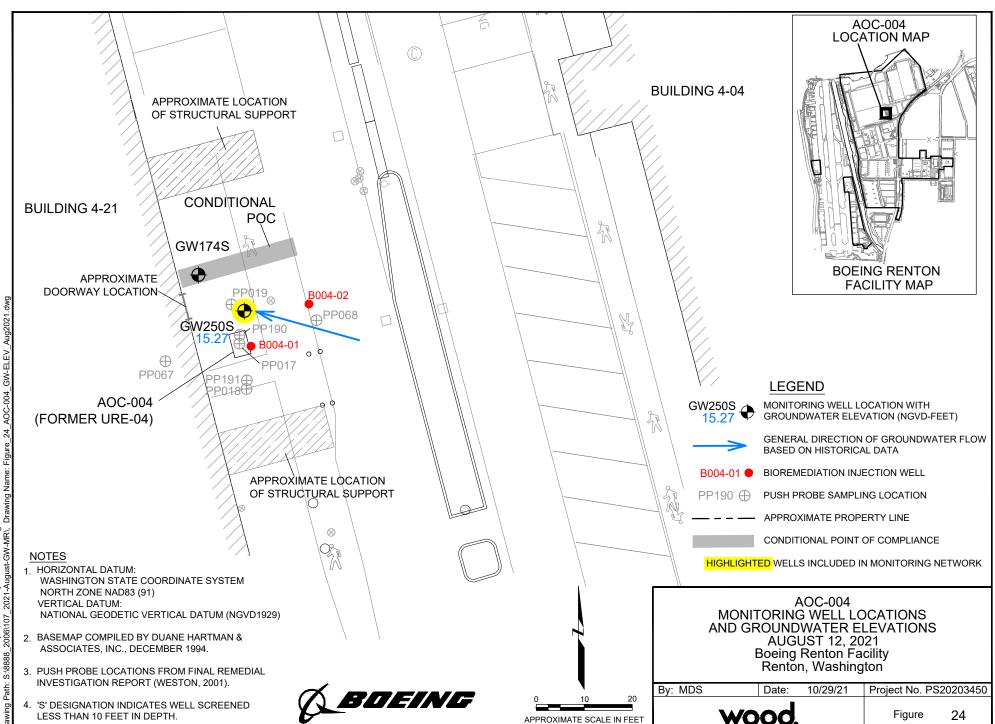


CPOC WELL GW248I

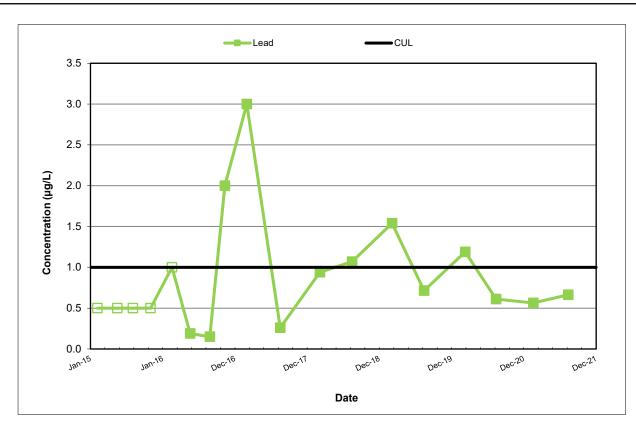
Note: non-detected values shown at one-half the reporting limit and with an open symbol

wood.

AOC-003 HISTORICAL TREND PLOTS FOR CPOC WELLS GW247S AND GW248I Boeing Renton Facility Project No. PS20203450

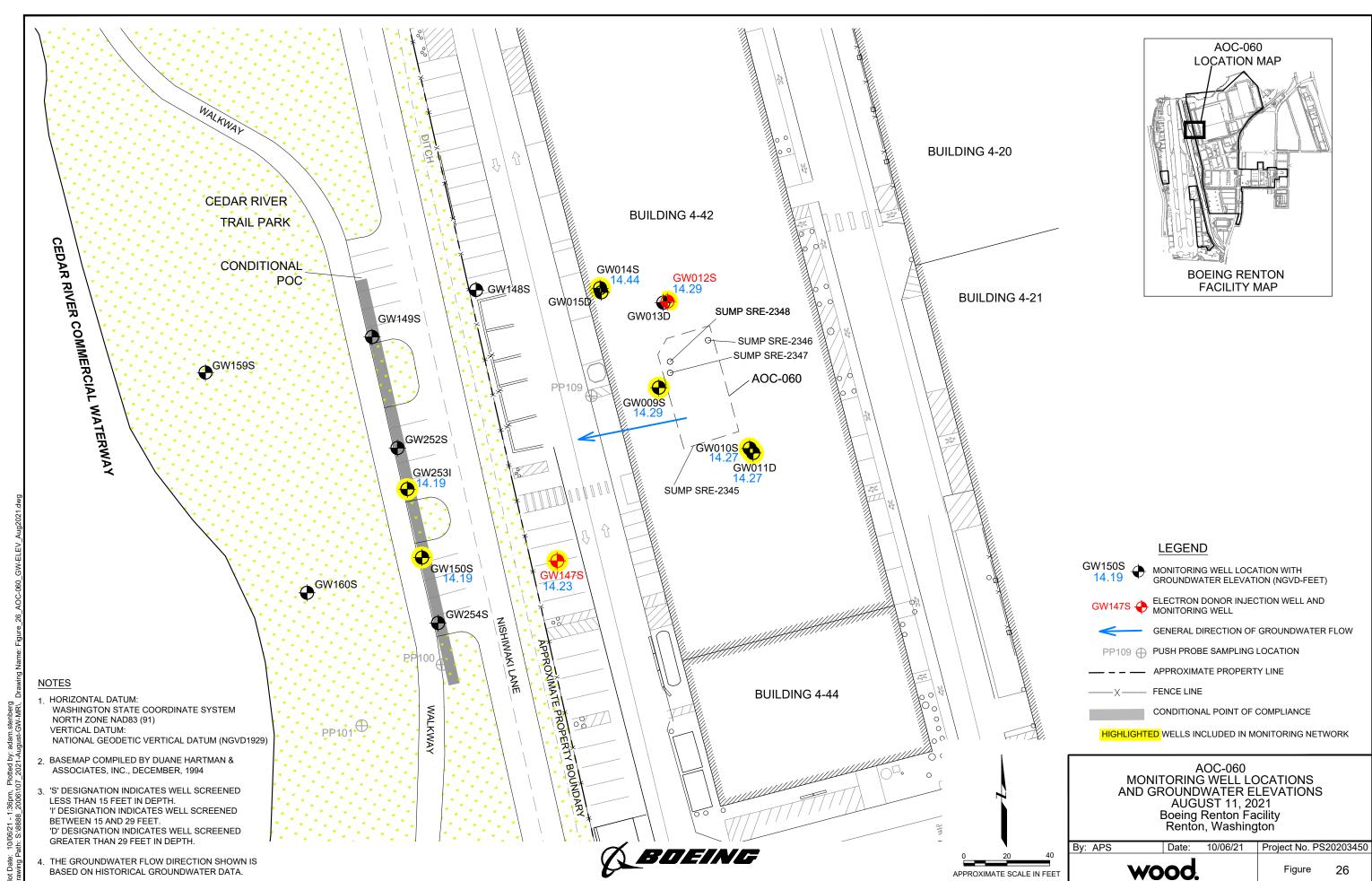


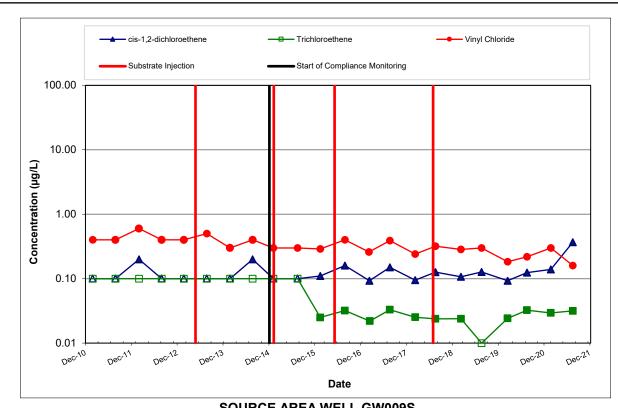
Plotted by: adam.stenberg 07 2021-August-GW-MR\,



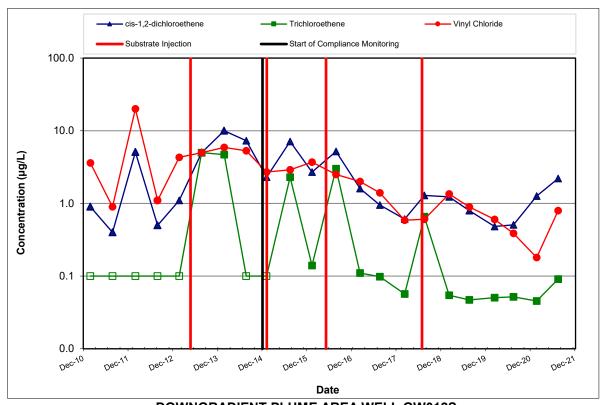
SOURCE AREA WELL GW250S







SOURCE AREA WELL GW009S



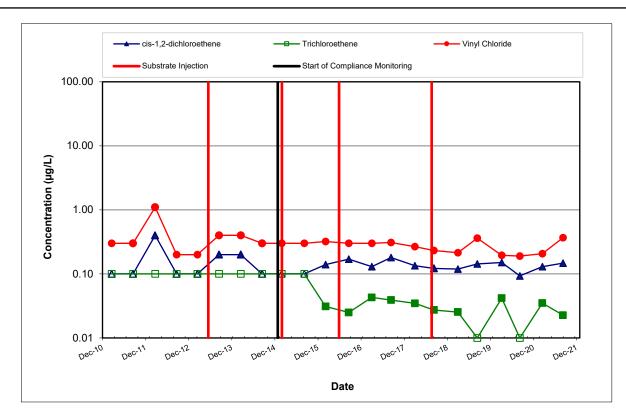
DOWNGRADIENT PLUME AREA WELL GW012S

Note: non-detected values shown at one-half the reporting limit and graphed with an open symbol. August 2013 reporting limits elevated.

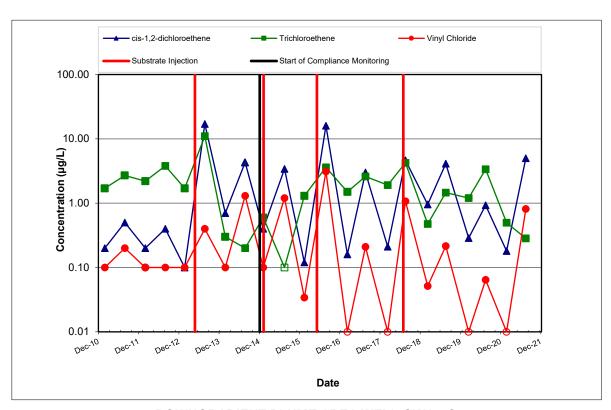


AOC-060 TREND PLOTS FOR SOURCE AREA WELL GW009S AND DOWNGRADIENT PLUME AREA WELL GW012S Boeing Renton Facility Renton, Washington

Project No. PS20203450



DOWNGRADIENT PLUME AREA WELL GW014S

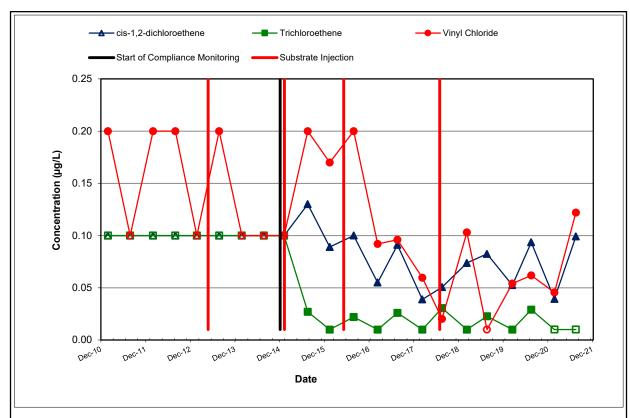


DOWNGRADIENT PLUME AREA WELL GW147S

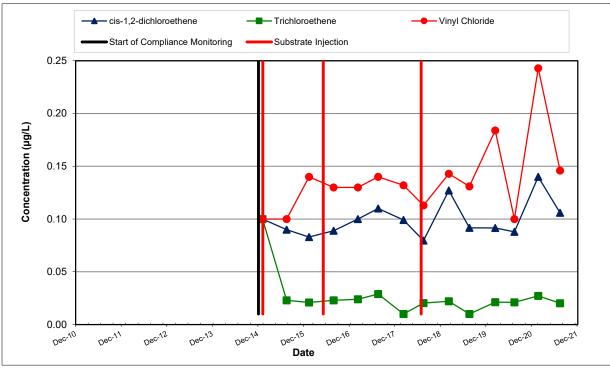
 $\underline{\text{Note:}} \text{ non-detected values shown at one-half the reporting limit and graphed with an open symbol.}$



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



CPOC AREA WELL GW150S

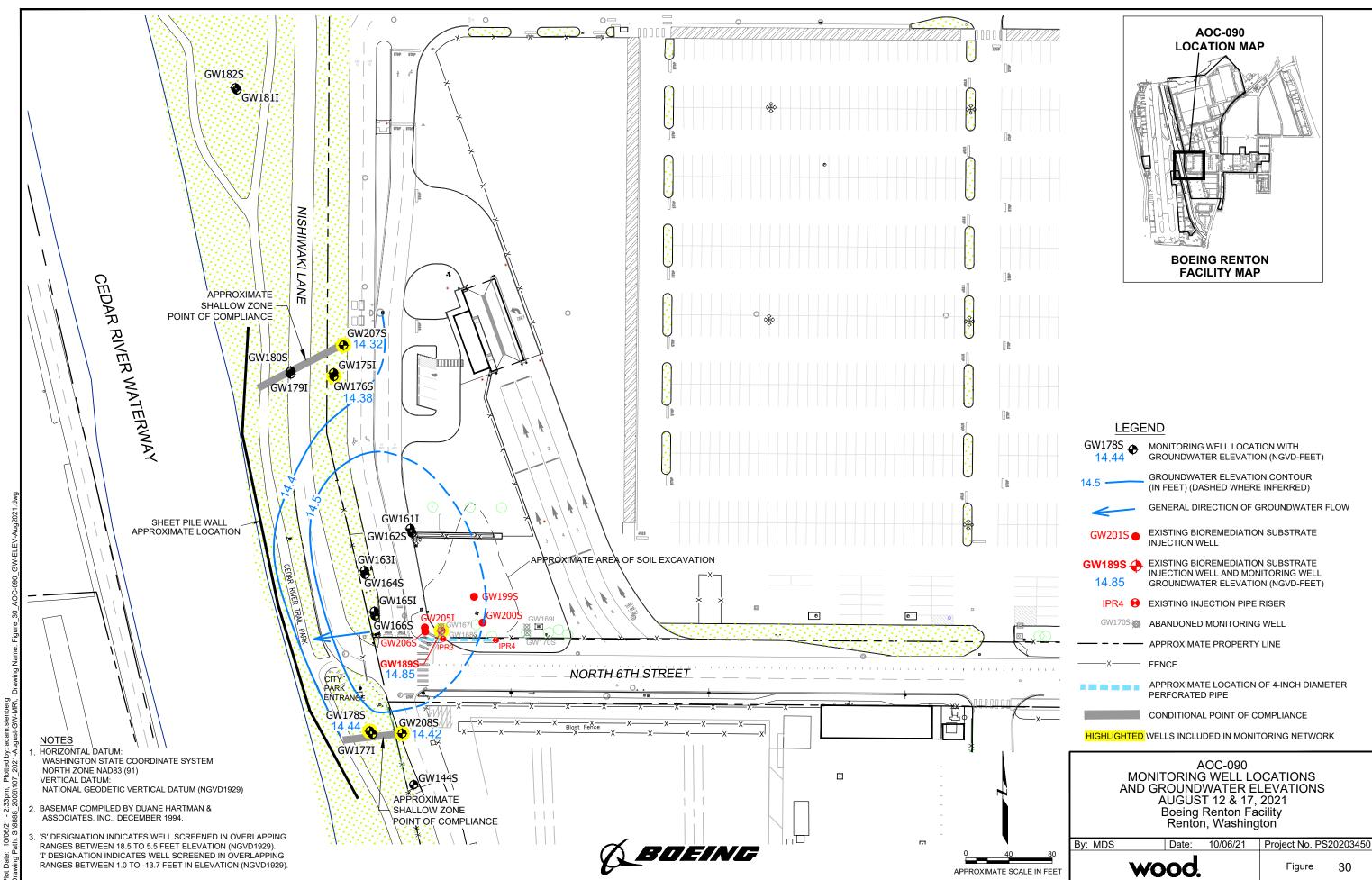


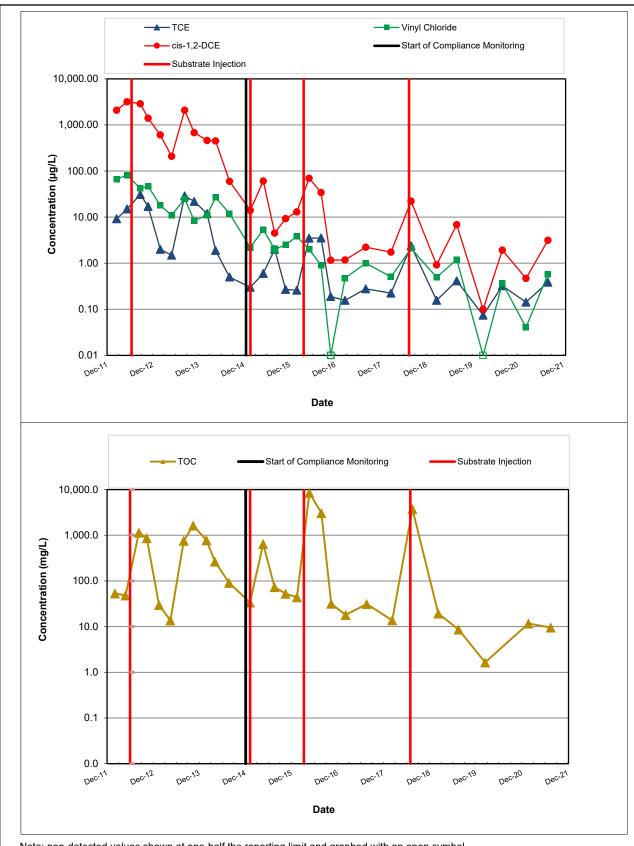
CPOC AREA WELL GW253I

 $\underline{\text{Note:}} \text{ non-detected } \underline{\text{values shown at one-half the reporting limit and graphed with an open symbol.}$

wood.

AOC-060 TREND PLOTS FOR CPOC AREA WELLS GW150S AND GW253I Boeing Renton Facility Renton, Washington Project No. PS20203450

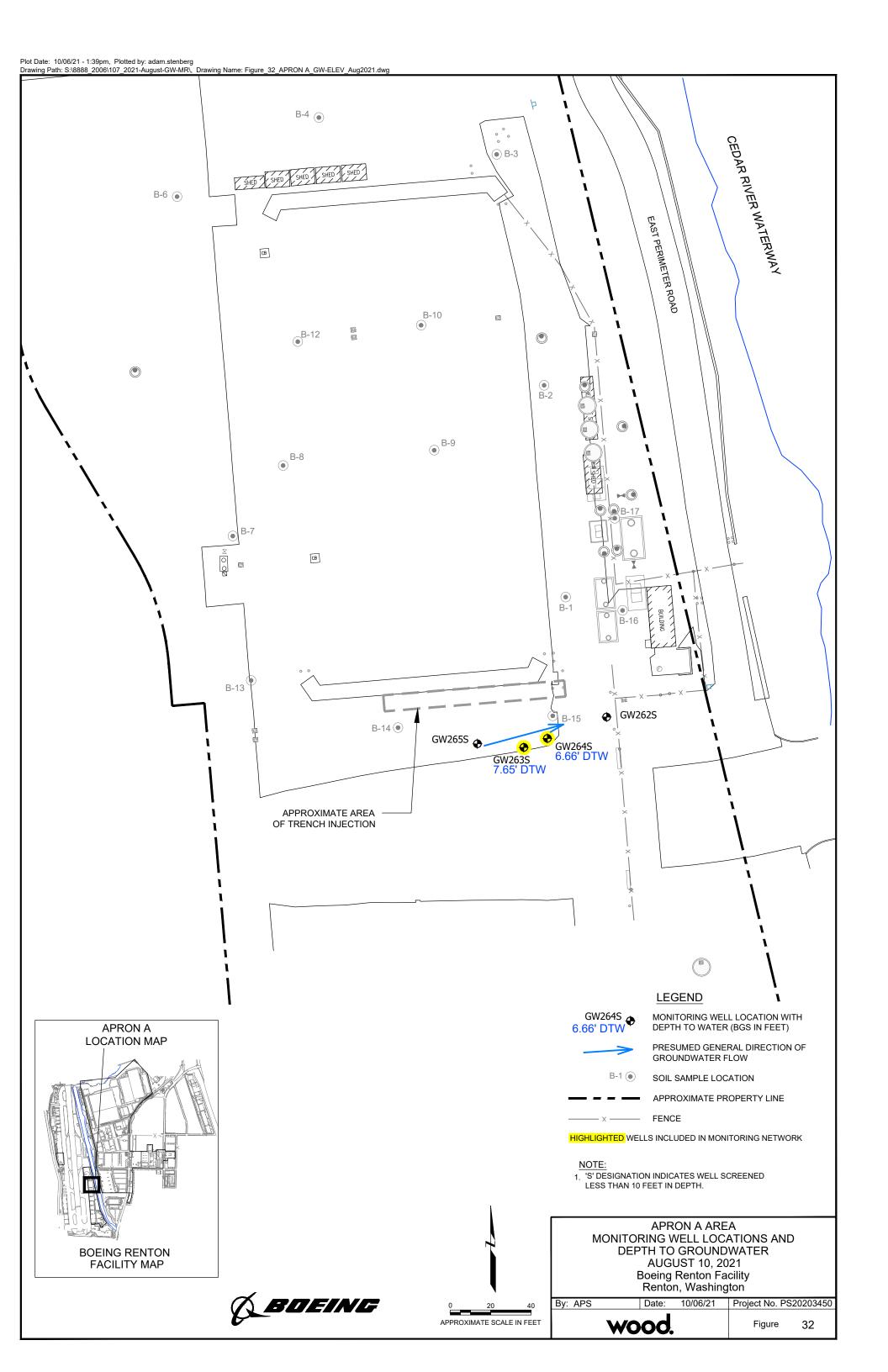




<u>Note</u>: non-detected values shown at one-half the reporting limit and graphed with an open symbol.

wood.

AOC-090 TREND PLOTS FOR SOURCE AREA WELL GW189S Boeing Renton Facility Renton, Washington Project No. PS20203450



wood.

Tables

TABLE 1: SWMU-168 GROUNDWATER ELEVATION DATA AUGUST 10, 2021

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	8.02	16.84

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 AUGUST 10, 2021

Boeing Renton Facility, Renton, Washington

	Well ID ²
	CPOC Area
Parameter	GW230I
Temperature (degrees C)	25.4
Specific Conductivity (µS/cm)	427.3
Dissolved Oxygen (mg/L)	0.35
pH (standard units)	6.32
Oxidation/Reduction Potential (mV)	-39.1

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} AUGUST 10, 2021

Boeing Renton Facility, Renton, Washington

Analyte		Cleanup Level ³	Well ID ⁴ CPOC Area GW230I
Volatile Organic Com	pounds (μg/L)		
Vinyl Chloride		0.11	0.359 J

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:

 μ g/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 AUGUST 10, 2021

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	9.95	17.03
GW153S	5 to 20 ²	27.47	10.47	17.00
GW172S	8 to 18 ²	26.44	10.17	16.27
GW173S	8 to 18 ²	26.51	10.28	16.23
GW226S	5 to 20 ²	26.86	9.79	17.07
GW232S	4 to 14	24.45	7.77	16.68
GW234S	3 to 13	24.95	8.62	16.33
GW235I	15 to 25	24.90	7.95	16.95
GW236S	5 to 15	24.36	7.88	16.48

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 AUGUST 10, 2021

Boeing Renton Facility, Renton, Washington

					Well	ID ²										
		Source Area			radient Plun	dient Plume Area			CPOC Area							
Parameter	GW152S	GW152S (field dup.)	GW153S	GW172S	GW173S	GW226S	GW232S	GW234S	GW235I	GW236S						
Temperature (degrees C)	23.1	23.1	22.7	27.5	26.8	27.3	24.0	24.1	22.1	28.9						
Specific Conductivity (µS/cm)	212.1	212.1	278.6	364.8	413.4	432.5	603.0	252.4	190.0	507.0						
Dissolved Oxygen (mg/L)	0.48	0.48	0.74	0.29	0.63	0.39	1.28	0.63	0.24	0.53						
pH (standard units)	5.80	5.80	6.39	6.80	6.51	6.58	6.29	6.23	6.42	6.63						
Oxidation/Reduction Potential (mV)	16.2	16.2	-57.3	-58.5	-74.3	-107.1	-56.6	-32.9	-37.6	-71.1						
Total Organic Carbon (mg/L)	5.88	5.30	7.99	3.36	5.05	8.92	10.47	2.52	0.51	2.01						

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} AUGUST 10, 2021

Boeing Renton Facility, Renton, Washington

				Well ID ³									
				Source Area			radient Plun	radient Plume Area			CPOC Area		
		Cleanup		GW152S									
Analyte		Level ⁴	GW152S	(field dup.)	GW153S	GW172S	GW173S	GW226S	GW232S	GW234S	GW235I	GW236S	
Volatile Organic Com	Volatile Organic Compounds (μg/L)												
cis -1,2-Dichloroethe	ene	0.03	1.330	1.370	0.0582 J	0.0746	0.0424 J	0.0335 J	0.464 J	0.0892	0.179	0.0791	
Tetrachloroethene		0.02	0.0872	0.0802	0.020 UJ	0.020 U	0.020 UJ	0.0202 J	0.020 UJ	0.020 U	0.020 U	0.020 U	
Trichloroethene		0.02	0.129	0.119	0.020 UJ	0.020 U	0.020 UJ	0.020 UJ	0.020 UJ	0.020 U	0.0285	0.020 U	
Vinyl Chloride		0.11	0.506	0.525	0.193 J	0.155	0.176 J	0.0516 J	0.653 J	0.0497	0.024	0.0223	
Total Metals (µg/L)													
Arsenic		1.0	16.3	18.3	5.47	7.18	11.4	5.57	6.19	1.18	0.200 U	5.49	
Copper		3.5	9.08 J	12.4 J	2.37	2.86	5.96	1.48	1.79	2.58	0.689	2.47	
Lead		1.0	5.38 J	7.82 J	0.448	1.33	1.65	0.124	0.262	1.01	0.179	1.79	

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; 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 AUGUST 11, 2021

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	5.21	14.23
GW033S	5 to 25	19.49	5.31	14.18
GW034S	5 to 25	19.65	5.42	14.42
GW143S	10 to 15	19.81	5.64	14.17
GW237S	5 to 15	18.85	4.66	14.19
GW240D	22 to 27	19.81	6.75	13.06
GW244S	5 to 15	19.53	5.29	14.24

Notes:

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

Abbreviations:

AOC = area of concern bgs = below ground surface

SWMU = solid waste management unit

TOC = top of casing

TABLE 8: BUILDING 4-78/79 SWMU/AOC GROUP PRIMARY GEOCHEMICAL INDICATORS ¹ AUGUST 11, 2021

Boeing Renton Facility, Renton, Washington

	Well ID ²									
			Source Area			CPOC Area				
		GW031S								
Parameter	GW031S	(field dup.)	GW033S	GW034S	GW244S	GW143S	GW237S	GW240D		
Temperature (degrees C)	22.3	22.3	23.6	26.9	26.9	22.8	25.6	26.0		
Specific Conductivity (µS/cm)	518.0	518.0	518.0	329.0	599.0	421.9	385.5	389.4		
Dissolved Oxygen (mg/L)	0.50	0.50	0.72	0.43	0.77	1.31	0.48	0.70		
pH (standard units)	6.29	6.29	6.14	6.34	6.12	6.31	6.34	6.46		
Oxidation/Reduction Potential (mV)	-61.6	-61.6	-53.8	-72.1	-61.1	-30.8	-55.6	-74.6		
Total Organic Carbon (mg/L)	15.15	15.21	13.54	7.66	13.38	8.47	5.72	4.63		

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.

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 AUGUST 11, 2021

Boeing Renton Facility, Renton, Washington

					I ID ³					
			S	ource Area			CPOC Area			
	Cleanup		GW031S							
Analyte	Level ⁴	GW031S	(field dup.)	GW033S	GW034S	GW244S	GW143S	GW237S	GW240D	
Volatile Organic Compou	Volatile Organic Compounds (µg/L)									
Benzene	0.80	1.08	0.84	14.5	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
cis -1,2-Dichloroethene	0.70	0.20 U	0.20 U	0.55	0.20 U	0.22	0.65	0.20 U	0.20 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	0.20 U	
Vinyl Chloride	0.20	0.20 U	0.20	2.31	1.20	0.37	0.20 U	0.20	0.20 U	
Total Petroleum Hydroca	Total Petroleum Hydrocarbons (µg/L)									
TPH-G (C7-C12)	800	1,540	1,620	360	100 U	100 U	100 U	360	100 U	

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; D = deep 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

field dup. = field duplicate

SWMU = solid waste management unit

TPH-G = total petroleum hydrocarbons in gasoline range

TABLE 10: FORMER FUEL FARM GROUNDWATER ELEVATION DATA AUGUST 10, 2021

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	10.73	17.04
GW221S	5 to 15	27.93	10.87	17.06
GW224S	5 to 15	27.98	11.40	16.58

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 AUGUST 10, 2021

Boeing Renton Facility, Renton, Washington

	Well ID ²							
		CPOC Area						
				GW224S				
Parameter	GW211S	GW221S	GW224S	(field dup.)				
Temperature (degrees C)	21.0	27.5	23.6	23.6				
Specific Conductivity (µS/cm)	276.8	264.3	175.0	175.0				
Dissolved Oxygen (mg/L)	0.24	0.47	0.28	0.28				
pH (standard units)	6.54	6.43	6.08	6.08				
Oxidation/Reduction Potential (mV)	-67.9	-23.1	-16.0	-16.0				

<u>Notes</u>

- 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 field dup. = field duplicate mg/L = milligrams per liter mV = millivolts

TABLE 12: FORMER FUEL FARM CONCENTRATIONS OF CONSTITUENTS OF CONCERN ^{1, 2} AUGUST 10, 2021

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	0.140	1.02	1.08	1.01				
TPH-O (C24-C38)	NC	0.200 U	0.200 U	0.200 U	0.200 U				
Jet A (C10-C18)	0.5	0.100 U	0.718	1.47	1.35				

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 AUGUST 11 & 12, 2021

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	4.05	14.73
GW247S	4 to 14	18.91	4.16	14.75
GW248I	10 to 20	18.78	4.01	14.77
GW249S	4 to 14	18.85	3.95	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 AUGUST 11 & 12, 2021

Boeing Renton Facility, Renton, Washington

		Well ID ²			
		Downgradient			
	Source Area	Plume Area	CPOC Area		
Parameter	RGW249S	RGW188S	GW247S	GW248I	
Temperature (degrees C)	28.5	25.7	30.6	29.9	
Specific Conductivity (µS/cm)	504	532	576.0	636	
Dissolved Oxygen (mg/L)	0.21	0.27	0.39	0.16	
pH (standard units)	6.53	6.53	6.30	6.59	
Oxidation/Reduction Potential (mV)	-19.8	-21.4	-62.7	-38.2	
Total Organic Carbon (mg/L)	16.33	9.86	11.24	12.18	

Notes

- 1. Primary geochemical indicators are measured in the field.
- 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

mg/L = milligrams per liter

mV = millivolts

TABLE 15: AOC-003 CONCENTRATIONS OF CONSTITUENTS OF CONCERN $^{\rm 1}$ AUGUST 11 & 12, 2021

Boeing Renton Facility, Renton, Washington

		Well ID ²			
	Cleanup	Source	Downgradient		
		Area	Plume Area	СРОС	Area
Analyte	Level ³	GW249S	GW188S	GW247S	GW248I
Volatile Organic Compounds (µg/L)					
Vinyl Chloride	0.24	0.517	0.698	0.678	0.711

Notes:

- 1. **Bolded** values exceed the cleanup levels.
- 2. S = shallow well; I = intermediate well.
- 3. 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 AUGUST 12, 2021

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	4.04	15.27

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 AUGUST 12, 2021

Boeing Renton Facility, Renton, Washington

	Well ID ²
	Source Area
Parameter	GW250S
Temperature (degrees C)	25.8
Specific Conductivity (µS/cm)	144.3
Dissolved Oxygen (mg/L)	0.37
pH (standard units)	6.96
Oxidation/Reduction Potential (mV)	-38.2

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 AUGUST 12, 2021

Boeing Renton Facility, Renton, Washington

Analyte	Cleanup Level ²	Well ID ¹ Source Area GW250S
Metals (mg/L)		
Lead	0.001	0.000663

Notes:

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

Abbreviations:

AOC = area of concern mg/L = milligrams per liter

TABLE 19: AOC-060 GROUNDWATER ELEVATION DATA AUGUST 11, 2021

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	5.07	14.29
GW010S	4.5 to 14.5	19.47	5.20	14.27
GW011D	29 to 39	19.49	5.22	14.27
GW012S	4.5 to 14.5	19.11	4.82	14.29
GW014S	4.5 to 14.5	19.24	4.80	14.44
GW147S	5 to 15	18.73	4.50	14.23
GW150S	5 to 15	19.10	4.91	14.19
GW253I	10 to 20	19.02	4.83	14.19

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 AUGUST 11, 2021

Boeing Renton Facility, Renton, Washington

	Well ID ²							
	Source Area	ource Area Downgradient Plume Area					CPOC Area	
				GW014S				
Parameter	GW009S	GW012S	GW014S	(field dup.)	GW147S	GW150S	GW253I	
Temperature (degrees C)	21.4	23.4	23.0	23.0	23.0	21.4	21.1	
Specific Conductivity (µS/cm)	396.7	711	599	599	160.6	417.6	407.7	
Dissolved Oxygen (mg/L)	0.26	0.26	0.33	0.33	0.35	0.44	0.48	
pH (standard units)	6.35	6.03	6.29	6.29	5.86	6.51	6.52	
Oxidation/Reduction Potential (mV)	-28.5	-62.6	-26.8	-26.8	-17.7	-45.5	-57.7	
Total Organic Carbon (mg/L)	7.48	11.88	4.09	4.02	4.35	5.16	4.81	

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

field dup. = field duplicate mg/L = milligrams per liter

mV = millivolts

TABLE 21: AOC-060 CONCENTRATIONS OF CONSTITUENTS OF CONCERN ^{1, 2} AUGUST 11, 2021

Boeing Renton Facility, Renton, Washington

		Source					cpo.c		
	Classins	Area		Downgradi	ent Plume Area		CPOC	CPOC Area	
	Cleanup				GW014S				
Analyte	Levels ⁴	GW009S	GW012S	GW014S	(field dup.)	GW147S	GW150S	GW253I	
Volatile Organic Compounds	s (µg/L)								
cis -1,2-Dichloroethene	0.08	0.368	2.210	0.147	0.156	5.000	0.0991	0.106	
Trichloroethene	0.02	0.0316	0.0908	0.0227	0.0234	0.283	0.020 U	0.0202	
Vinyl Chloride	0.26	0.160	0.795	0.367	0.358	0.813	0.122	0.146	

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

field dup. = field duplicate

TABLE 22: AOC-090 GROUNDWATER ELEVATION DATA AUGUST 12 & 17, 2021

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	5.77	14.38
GW178S	11.2 to 15.5	22.73	8.29	14.44
GW189S	4 to 14	22.01	7.16	14.85
GW207S	7.3 to 12	21.12	6.80	14.32
GW208S	6.3 to 11	22.45	8.03	14.42

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 AUGUST 12 & 17, 2021

Boeing Renton Facility, Renton, Washington

	Well ID ²					
		Downgradient				
	Source Area Plume Area Shallow Zone CPOC Are			Area		
Parameter	GW189S ³	GW176S	GW178S	GW207S	GW208S	
Temperature (degrees C)	19.8	16.8	19.2	21.9	22.6	
Specific Conductivity (µS/cm)	324.9	569.0	417.5	454.8	562.0	
Dissolved Oxygen (mg/L)	0.47	1.22	0.55	0.24	1.59	
pH (standard units)	6.22	5.91	6.34	6.47	6.35	
Oxidation/Reduction Potential (mV)	-22.9	-24.5	-8.7	-12.6	-24.0	
Total Organic Carbon (mg/L)	9.58	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 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} AUGUST 12 & 17, 2021

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 O	Compounds	(μg/L)				
1,1,2,2-Tetrachloroethane	0.17	0.020 U	NA	NA	NA	NA
1,1,2-Trichloroethane	0.2	0.20 U	NA	NA	NA	NA
1,1-Dichloroethene	0.057	0.020 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	3.15	NA	NA	NA	NA
Methylene Chloride	2	1.00 U	NA	NA	NA	NA
Tetrachloroethene	0.05	0.020 U	NA	NA	NA	NA
Toluene	75	2.42	NA	NA	NA	NA
trans-1,2-Dichloroethene	53.9	0.20 U	NA	NA	NA	NA
Trichloroethene	0.08	0.386	NA	NA	NA	NA
Vinyl Chloride	0.13	0.575	0.431	0.182	0.232	0.313
Total Petroleum Hydrocarbon	s (µg/L)					
TPH-G (C7-C12)	800	504	NA	NA	NA	NA
TPH-D (C12-C24)	500	390	NA	NA	NA	NA
TPH-O (C24-C40)	500	689	NA	NA	NA	NA

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.
- 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 AUGUST 10, 2021

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	7.65	NA
GW264S	8 to 18	NA	6.66	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 AUGUST 10, 2021

Boeing Renton Facility, Renton, Washington

	Well ID ²
	Source Area
Parameter	GW264S
Temperature (degrees C)	19.2
Specific Conductivity (µS/cm)	699.0
Dissolved Oxygen (mg/L)	0.47
pH (standard units)	6.21
Oxidation/Reduction Potential (mV)	-39.7
Total Organic Carbon (mg/L)	25.26

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

AUGUST 10, 2021

Boeing Renton Facility, Renton, Washington

Analyte Volatile Organic Compounds (μg/L)	Cleanup Levels	Well ID ² GW264S
cis- 1,2-Dichloroethene	NE	0.20 U
Vinyl Chloride	NE	1.37

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 Aproff 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.
- 2. 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 Number	er <u>: </u>	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 10 /2021@	1300		
Sample Num	nber:	RGWDUP1	210810		Weather:	SUNNY 70'S			
Landau Repi	resentative:	AHA							
WATER LEV	/FI/WFLI/PI	IRGE DATA							
Well Condition		Secure (YES)	Damaged (N	0)	Describe:			
		Secure (TES		Dumagea (1	,			CW Matan Na (a)
DTW Before		0/ /2021 @	Time:	E 1D	Flow through ce			GW Meter No.(s	5)
Begin Purge:		8/ /2021 @		End Purge:		8/ /2021 @		Gallons Purged:	
Purge water d	isposed to:		55-gal Drum	Ш	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)		(mV)	(NTU)	(ft)	Volume (gal)	Observations
	+/- 3%	ls: Stablizatio		ters for three +/- 0.1 units	e consecutive rea +/- 10 mV	dings within the fo +/- 10%	ollowing limits < 0.3 ft	>/= 1 flow through cell	
	17-370	17-370	17-1070	17- 0.1 units	1/- 10 III V	1/- 10/0	· 0.5 It	thi ough cen	
		DIII				V11.500			
		DUI	PLICE	AIE I	O RGV	W 1528			
						•			
					-				
									
						-			
SAMPLE CO	LI FCTION D	ΔΤΔ						<u> </u>	
Sample Collect			Bailer		Pump/Pump Type	2			
Made of:	cica wiin.	Stainless Ste	_	PVC	Teflon	Polyethylene	Other	Dedicated	
		Statilless Ste			Tellon	Folyetilylene		i Dedicated	
Decon Proced						—			
	_	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	el Order)	Other			<u>—</u>				
(By Numerica	el Order)	Other			<u>—</u>	Dedicated (RB,NO ODOR, NO) SHEEN		
(By Numerical Sample Descr	il Order)	Other turbidity, odor	, sheen, etc.):	NO COLOR	, MED-HIGH TU	RB,NO ODOR, NO			
(By Numerica	rl Order) ription (color, t	Other turbidity, odor	D.O.		, MED-HIGH TU	RB,NO ODOR, NO	DTW	Ferrous iron	Comments/
(By Numerical Sample Described Replicate	ription (color, to Temp	Other turbidity, odor Cond. (uS/cm)	D.O. (mg/L)	NO COLOR	, MED-HIGH TU ORP (mV)	RB,NO ODOR, NO		Ferrous iron (Fe II)	Comments/ Observations
(By Numerical Sample Descr	rl Order) ription (color, t	Other turbidity, odor	D.O.	NO COLOR	, MED-HIGH TU	RB,NO ODOR, NO	DTW		
(By Numerical Sample Described Replicate	ription (color, to Temp	Other turbidity, odor Cond. (uS/cm)	D.O. (mg/L)	NO COLOR	, MED-HIGH TU ORP (mV)	RB,NO ODOR, NO	DTW		
(By Numerical Sample Description Replicate	ription (color, ription (color, ription) Temp (°F/°C) 23.1	Cond. (uS/cm) 215.0	D.O. (mg/L)	NO COLOR pH 5.81	, MED-HIGH TU ORP (mV)	RB,NO ODOR, NO	DTW		
(By Numerical Sample Described Property of Sa	Temp (°F/°C) 23.1 23.1	Cond. (uS/cm) 215.0 215.2 215.6	D.O. (mg/L) 0.47 0.49	NO COLOR pH 5.81 5.80 5.80	ORP (mV) 14.7 14.6	RB,NO ODOR, NO	DTW		
(By Numerical Sample Described Property of Sa	Temp (°F/°C) 23.1 23.1 23.1	Other turbidity, odor Cond. (uS/cm) 215.0 215.2 215.6 216.1	D.O. (mg/L) 0.47 0.47 0.49	NO COLOR pH 5.81 5.80 5.80	ORP (mV) 14.7 14.6 14.4 14.1	Turbidity (NTU)	DTW		
(By Numerical Sample Described Properties of Sample Described	Temp (°F/°C) 23.1 23.1	Cond. (uS/cm) 215.0 215.2 215.6	D.O. (mg/L) 0.47 0.49	NO COLOR pH 5.81 5.80 5.80	ORP (mV) 14.7 14.6	RB,NO ODOR, NO	DTW		
(By Numerica Sample Described Properties of Page 1) Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1	Cond. (uS/cm) 215.0 215.2 215.6 216.1 215.5	D.O. (mg/L) 0.47 0.49 0.48	NO COLOR pH 5.81 5.80 5.80 5.80	ORP (mV) 14.7 14.6 14.1 14.5	Turbidity (NTU)	DTW (ft)	(Fe II)	
(By Numerica Sample Described Properties of Page 1) Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.1 23.1 23.1 23.1 TYPICAL A	Cond. (uS/cm) 215.0 215.2 215.6 216.1 215.5	D.O. (mg/L) 0.47 0.49 0.48 0.48 LLOWED PE	PH 5.81 5.80 5.80 5.80 5.80	ORP (mV) 14.7 14.6 14.1 14.5 TYPE (Circle a)	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.1 23.1 23.1 23.1 TYPICAL A (8260-SIM)	Cond. (uS/cm) 215.0 215.2 215.6 216.1 215.5 NALYSIS AI (8010) (8020	D.O. (mg/L) 0.47 0.49 0.48 0.48 LLOWED PE	PH 5.81 5.80 5.80 5.80 6.80 6.80 6.80 6.80 6.80 6.80 6.80 6.80 6.80	ORP (mV) 14.7 14.6 14.1 14.5 TYPE (Circle a) I-GX) (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1 (8260-SIM) (8270D) (PA	Cond. (uS/cm) 215.0 215.2 215.6 216.1 215.5 NALYSIS AI (8010) (8020 AH) (NWTPH	D.O. (mg/L) 0.47 0.49 0.48 0.48 LLOWED PE 0) (NWTPH-H-D) (NWTP	5.81 5.80 5.80 5.80 6.80 THE BOTTLE G) (NWTPHH-Dx) (TPH	ORP (mV) 14.7 14.6 14.1 14.5 TYPE (Circle a) H-Gx) (BTEX) I-HCID) (8081)	#DIV/0!	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
(By Numerica Sample Described Properties 1	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1 (8260-SIM) (8270D) (PA (Conduction)	Cond. (uS/cm) 215.0 215.2 215.6 216.1 215.5 NALYSIS AI (8010) (8020) AH) (NWTPHetivity) (TD:	D.O. (mg/L) 0.47 0.49 0.48 0.48 LLOWED PE 0) (NWTPH-H-D) (NWTP	5.81 5.80 5.80 5.80 6.R BOTTLE G) (NWTPHH-Dx) (TPHOD) (Turbic	ORP (mV) 14.7 14.6 14.1 14.5 TYPE (Circle a) H-Gx) (BTEX) I-HCID) (8081)	#DIV/0! #DIV/0! (8141) (Oil & Gi) (HCO3/CO3) (6	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1 (8260-SIM) (8270D) (PA (pH) (Conduction) (TOO	Cond. (uS/cm) 215.0 215.2 215.6 216.1 215.5 NALYSIS AI (8010) (8020) AH) (NWTPHetivity) (TD:	D.O. (mg/L) 0.47 0.49 0.48 0.48 LLOWED PE D) (NWTPH-H-D) (NWTP	5.81 5.80 5.80 5.80 5.80 6.R BOTTLE G) (NWTPHH-Dx) (TPHOD) (Turbital Kiedahl N	ORP (mV) 14.7 14.6 14.4 14.1 14.5 TYPE (Circle and H-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity	#DIV/0! #DIV/0! (8141) (Oil & Gi) (HCO3/CO3) (6	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.1 23.1 23.1 23.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 215.0 215.2 215.6 216.1 215.5 NALYSIS AI (8010) (8020 AH) (NWTPH lectivity) (TD: 25310C) (To e) (WAD Cy	D.O. (mg/L) 0.47 0.49 0.48 0.48 LOWED PE D) (NWTPH-H-D) (NWTP S) (TSS) (B tal PO4) (Towanide) (Free	pH 5.81 5.80 5.80 5.80 5.80 CR BOTTLE G) (NWTPI H-Dx) (TPI OD) (Turbi tal Kiedahl N Cyanide)	ORP (mV) 14.7 14.6 14.1 14.5 TYPE (Circle a) I-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! (8141) (Oil & Gi) (HCO3/CO3) (6	DTW (ft) non-standard and arease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA O WA WA	Observations OR OR OR
(By Numerica Sample Described Property Sampl	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1 (8260-SIM) (8270D) (PA (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 215.0 215.2 215.6 216.1 215.5 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: 025310C) (To e) (WAD Cy) (As) (Sb) (D.O. (mg/L) 0.47 0.49 0.48 0.48 LOWED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (TSS) (Batal PO4) (Toward Pos) (Tanide) (Free Ba) (Be) (Canada PO4) (Canada	5.81 5.80 5.80 5.80 6. R BOTTLE G) (NWTPFH-Dx) (TPFOD) (Turbital Kiedahl N Cyanide)	ORP (mV) 14.7 14.6 14.4 14.1 14.5 TYPE (Circle and Indicated Heritage) Indicated Heritage (NH3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write: (8141) (Oil & Gi) (HCO3/CO3) (Gi (NO3/NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON (NO2) (F) Tl) (V) (Zn) (Hg	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1 (8260-SIM) (8270D) (PA (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 215.0 215.2 215.6 216.1 215.5 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: 05310C) (To e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) (St	D.O. (mg/L) 0.47 0.49 0.48 0.48 LOWED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (TSS) (Batal PO4) (Toward Pos) (Tanide) (Free Ba) (Be) (Canada PO4) (Canada	5.81 5.80 5.80 5.80 6. R BOTTLE G) (NWTPFH-Dx) (TPFOD) (Turbital Kiedahl N Cyanide)	ORP (mV) 14.7 14.6 14.4 14.1 14.5 TYPE (Circle and Indicated Heritage) Indicated Heritage (NH3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write: (8141) (Oil & Gi) (HCO3/CO3) (Gi (NO3/NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON (NO2) (F) Tl) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
(By Numerica Sample Described Property Sampl	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 215.0 215.2 215.6 216.1 215.5 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: 05310C) (To e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) (St	D.O. (mg/L) 0.47 0.49 0.48 0.48 LOWED PE 0) (NWTPH-H-D) (NWT	5.81 5.80 5.80 5.80 6. R BOTTLE G) (NWTPFH-Dx) (TPFOD) (Turbital Kiedahl N Cyanide)	ORP (mV) 14.7 14.6 14.4 14.1 14.5 TYPE (Circle and Indicated Heritage) Indicated Heritage (NH3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write: (8141) (Oil & Gi) (HCO3/CO3) (Gi (NO3/NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON (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) 23.1 23.1 23.1 23.1 23.1 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 215.0 215.2 215.6 216.1 215.5 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: (25310C) (To: (e) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.47 0.49 0.48 0.48 LOWED PE 0) (NWTPH-H-D) (NWT	5.81 5.80 5.80 5.80 6. R BOTTLE G) (NWTPFH-Dx) (TPFOD) (Turbital Kiedahl N Cyanide)	ORP (mV) 14.7 14.6 14.4 14.1 14.5 TYPE (Circle and Indicated Heritage) Indicated Heritage (NH3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write: (8141) (Oil & Gi) (HCO3/CO3) (Gi (NO3/NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON (NO2) (F) Tl) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
(By Numerica Sample Described Property Sampl	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 215.0 215.2 215.6 216.1 215.5 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: (25310C) (To: (e) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.47 0.49 0.48 0.48 LOWED PE 0) (NWTPH-H-D) (NWT	5.81 5.80 5.80 5.80 6. R BOTTLE G) (NWTPFH-Dx) (TPFOD) (Turbital Kiedahl N Cyanide)	ORP (mV) 14.7 14.6 14.4 14.1 14.5 TYPE (Circle and Indicated Heritage) Indicated Heritage (NH3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write: (8141) (Oil & Gi) (HCO3/CO3) (Gi (NO3/NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON (NO2) (F) Tl) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
(By Numerica Sample Described Property Sampl	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 215.0 215.2 215.6 216.1 215.5 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: (25310C) (To: (e) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.47 0.49 0.48 0.48 LOWED PE 0) (NWTPH-H-D) (NWT	5.81 5.80 5.80 5.80 6. R BOTTLE G) (NWTPFH-Dx) (TPFOD) (Turbital Kiedahl N Cyanide)	ORP (mV) 14.7 14.6 14.4 14.1 14.5 TYPE (Circle and Indicated Heritage) Indicated Heritage (NH3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write: (8141) (Oil & Gi) (HCO3/CO3) (Oil (NO3/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON (NO2) (F) Tl) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
(By Numerica Sample Described Property Sampl	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1 23.1 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 215.0 215.2 215.6 216.1 215.5 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: (25310C) (To: (e) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.47 0.49 0.48 0.48 LOWED PE 0) (NWTPH-H-D) (NWT	5.81 5.80 5.80 5.80 6. R BOTTLE G) (NWTPFH-Dx) (TPFOD) (Turbital Kiedahl N Cyanide)	ORP (mV) 14.7 14.6 14.4 14.1 14.5 TYPE (Circle and Indicated Heritage) Indicated Heritage (NH3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write: (8141) (Oil & Gi) (HCO3/CO3) (Oil (NO3/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON (NO2) (F) Tl) (V) (Zn) (Hg	Observations OR OR OR OR OR OR OR OR OR OR
(By Numerica Sample Described Property Sampl	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1 23.1 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 215.0 215.2 215.6 216.1 215.5 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: (25310C) (To: (e) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.47 0.49 0.48 0.48 LOWED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Toward) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab) (Cat)	5.81 5.80 5.80 5.80 6. R BOTTLE G) (NWTPFH-Dx) (TPFOD) (Turbital Kiedahl N Cyanide)	ORP (mV) 14.7 14.6 14.4 14.1 14.5 TYPE (Circle and Indicated Heritage) Indicated Heritage (NH3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write: (8141) (Oil & Gi) (HCO3/CO3) (Oil (NO3/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON (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) 23.1 23.1 23.1 23.1 23.1 23.1 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 215.0 215.2 215.6 216.1 215.5 NALYSIS AI (8010) (8020 AH) (NWTPH (etivity) (TD: (25310C) (To (e) (WAD Cy (o) (As) (Sb) (etals) (As) (Sb) (sp) (anne Ethene Action (Action (Acti	D.O. (mg/L) 0.47 0.49 0.48 0.48 LOWED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Toward) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab) (Cat)	5.81 5.80 5.80 5.80 6. R BOTTLE G) (NWTPFH-Dx) (TPFOD) (Turbital Kiedahl N Cyanide)	ORP (mV) 14.7 14.6 14.4 14.1 14.5 TYPE (Circle and Indicated Heritage) Indicated Heritage (NH3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write: (8141) (Oil & Gi) (HCO3/CO3) (Oil (NO3/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA ON (NO2) (F) Tl) (V) (Zn) (Hg	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:		Aug-21			Date/Time:	8/ 11 /2021@	1330		
Sample Nun	nber:	RGWDUP2	210811		Weather:	SUNNY 70'S			
Landau Rep	resentative:	AHA							
WATER LEV	/EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES))	Damaged (N	(O)	Describe:	FLUSHMOUN	Т	
DTW Before	Purging (ft)		Time:		Flow through ce	ll vol.		GW Meter No.(s	s SLOPE 2
Begin Purge:		8/11 /2021		End Purge:	_	8/ 11/2021@	•	Gallons Purged:	0.25
Purge water d			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	
	•	_	-		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	
		DUF	PLICA	ATE I	TO RGV	W031S			
-						00 1.0			
							· 		
SAMPLE CO	LLECTION D	ATA				<u> </u>	·		
Sample Colle			Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Stee	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	. =						_	₩	
	hure:	Alconox Was	≀h	Tan Rinse	☐ DI Water	Dedicated			
		Alconox Was	sh \square	Tap Rinse	DI Water	Dedicated			
(By Numerica	ul Order)	Other			<u>—</u>		FN		
(By Numerica	ul Order)	Other			<u>—</u>	Dedicated O ODOR, NO SHE	EN		
(By Numerica	ul Order)	Other			<u>—</u>		EN DTW	Ferrous iron	Comments/
(By Numerical Sample Descri	ul Order)	Other turbidity, odor	, sheen, etc.):	NO COLOR	, LOW TURB, N	O ODOR, NO SHE		Ferrous iron (Fe II)	Comments/ Observations
(By Numerical Sample Descri	ription (color, t	Other turbidity, odor	, sheen, etc.):	NO COLOR	, LOW TURB, NO	O ODOR, NO SHE	DTW		
(By Numerical Sample Described Replicate	nl Order) ription (color, to remp (°F/°C)	Other turbidity, odor Cond. (uS/cm)	D.O. (mg/L)	NO COLOR	, LOW TURB, NO ORP (mV)	O ODOR, NO SHE	DTW		
(By Numerical Sample Description Replicate 1 2	ription (color, 1 Temp (°F/°C) 22.0 22.0	Other turbidity, odor Cond. (uS/cm) 517	D.O. (mg/L) 0.49	PH 6.26 6.25	ORP (mV) -62.6 -62.6	O ODOR, NO SHE	DTW		
Replicate 1 2 3	ription (color, to Temp (°F/°C) 22.0 22.0 22.0	Cond. (uS/cm) 517 517	D.O. (mg/L) 0.49 0.49	PH 6.26 6.25 6.25	ORP (mV) -62.6 -62.7	O ODOR, NO SHE	DTW		
(By Numerical Sample Description Replicate 1 2	ription (color, 1 Temp (°F/°C) 22.0 22.0	Other turbidity, odor Cond. (uS/cm) 517	, sheen, etc.): D.O. (mg/L) 0.49 0.49 0.49	PH 6.26 6.25 6.25 6.25	ORP (mV) -62.6 -62.6 -62.7 -63.0	O ODOR, NO SHE Turbidity (NTU)	DTW		
Replicate 1 2 3	ription (color, to Temp (°F/°C) 22.0 22.0 22.0	Cond. (uS/cm) 517 517	D.O. (mg/L) 0.49 0.49	PH 6.26 6.25 6.25	ORP (mV) -62.6 -62.7	O ODOR, NO SHE	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.0 22.0 22.1 22.0	Other turbidity, odor Cond. (uS/cm) 517 517 518 517	0.49 0.49 0.49	PH 6.26 6.25 6.25 6.25 6.25	ORP (mV) -62.6 -62.7 -62.7	O ODOR, NO SHE Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.0 22.0 22.1 22.0 TYPICAL A	Other turbidity, odor Cond. (uS/cm) 517 517 518 517	0.49 0.49 0.49 0.49	PH 6.26 6.25 6.25 6.25 6.25 6.25	ORP (mV) -62.6 -62.6 -62.7 -63.0 -62.7 TYPE (Circle a)	O ODOR, NO SHE Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.0 22.0 22.1 22.0 TYPICAL A (8260) (8010	Other turbidity, odor Cond. (uS/cm) 517 517 517 518 517 NALYSIS AL (0) (8020) (N	D.O. (mg/L) 0.49 0.49 0.49 0.49 0.49 0.49	PH 6.26 6.25 6.25 6.25 6.25 R BOTTLE NWTPH-GX	ORP (mV) -62.6 -62.7 -63.0 -62.7 TYPE (Circle apo) (BTEX)	O ODOR, NO SHE Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.0 22.0 22.1 22.0 TYPICAL A (8260) (8010) (8270) (PAH (pH) (Conduction)	Cond. (uS/cm) 517 517 518 517 NALYSIS AL 0) (8020) (NI) (NWTPH-lectivity) (TDS	D.O. (mg/L) 0.49 0.49 0.49 0.49 0.49 0.49 0.19 0.49 0.49 0.49 0.49 IWTPH-G) (D) (NWTPH S) (TSS) (B	PH 6.26 6.25 6.25 6.25 6.25 CR BOTTLE NWTPH-GX CD) (Turbicod) (Turbicod)	ORP (mV) -62.6 -62.7 -63.0 -62.7 TYPE (Circle ap) (BTEX) HCID) (8081) (dity) (Alkalinity	#DIV/0! #DIV/0! #Bliv/0! #Bliv/0! #Bliv/0! #Bliv/0! #Bliv/0! #Bliv/0! #Bliv/0!	DTW (ft) non-standard an	(Fe II) malysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.0 22.0 22.1 22.0 22.1 (8260) (8010 (8270) (PAH (PH) (Conduction) (COD) (TOC)	Other turbidity, odor turbidity, odor Cond. (uS/cm) 517 517 518 517 NALYSIS AI (1) (8020) (N II) (NWTPH-Lectivity) (TDS C) (Total PO4	0.49 0.49 0.49 0.49 0.49 0.10 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.4	PH 6.26 6.25 6.25 6.25 6.25 CR BOTTLE NWTPH-Gx DD) (Turbidahl Nitroger	ORP (mV) -62.6 -62.7 -63.0 -62.7 TYPE (Circle apple) (BTEX) HCID) (8081) (#DIV/0! #DIV/0! #Bliv/0! #Bliv/0! #Bliv/0! #Bliv/0! #Bliv/0! #Bliv/0! #Bliv/0!	DTW (ft) non-standard an	(Fe II) malysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.0 22.0 22.0 22.1 22.0 TYPICAL A (8260) (8010 (8270) (PAH (COD) (TOO (Total Cyanid	Other turbidity, odor Cond. (uS/cm) 517 517 518 517 NALYSIS AL O) (8020) (N I) (NWTPH-lectivity) (TDS	0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	PH 6.26 6.25 6.25 6.25 6.25 CR BOTTLE NWTPH-GX D) (TPH-GD) (Turbidahl Nitroger Cyanide)	ORP (mV) -62.6 -62.7 -63.0 -62.7 TYPE (Circle aportion (BTEX)) HCID) (8081) (dity) (Alkalinity (MH3) (NO3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (67/NO2)	non-standard an	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:	Temp (°F/°C) 22.0 22.0 22.1 22.0 22.1 22.0 (8260) (8010 (8270) (PAF-(PH) (Conduction (COD) (Total Cyanida (Total Metals))	Other turbidity, odor Cond. (uS/cm) 517 517 518 517 NALYSIS AI 0) (8020) (NI) (NWTPH-letivity) (TDS C) (Total PO4 e) (WAD Cy) (As) (Sb) (Sb)	0.49 0.49 0.49 0.49 0.49 0.10 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.4	PH 6.26 6.25 6.25 6.25 6.25 CR BOTTLE NWTPH-GX CDD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -62.6 -62.7 -63.0 -62.7 TYPE (Circle aportion of the content of the	#DIV/0! #DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (O'NO2)	non-standard and ase) CI) (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:	Temp (°F/°C) 22.0 22.0 22.1 22.0 22.1 22.0 (8260) (8010 (8270) (PAF(PH) (Conduction (COD) (Total Cyanid (Total Metals))	Other turbidity, odor turbidity, odor turbidity, odor Cond. (uS/cm) 517 517 518 517 S18 517 S18 517 S18 S19 (8020) (NOT)	0.49 0.49 0.49 0.49 0.49 0.10 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.4	PH 6.26 6.25 6.25 6.25 6.25 CR BOTTLE NWTPH-GX CDD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -62.6 -62.7 -63.0 -62.7 TYPE (Circle aportion of the content of the	#DIV/0! #DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (O'NO2)	non-standard and ase) CI) (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:	Temp (°F/°C) 22.0 22.0 22.1 22.0 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved Metals VOC (Boein	Cond. (uS/cm) 517 517 518 517 NALYSIS AL 0) (8020) (N 1) (NWTPH-Intrivity) (TDS C) (Total PO4 e) (WAD Cy o) (As) (Sb) (Se g short list)	D.O. (mg/L) 0.49 0.49 0.49 0.49 0.49 0.49 (MYPH-G) (MYPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ba) (Be) (Ca)	PH 6.26 6.25 6.25 6.25 6.25 CR BOTTLE NWTPH-GX CDD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -62.6 -62.7 -63.0 -62.7 TYPE (Circle aportion of the content of the	#DIV/0! #DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (O'NO2)	non-standard and ase) CI) (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:	Temp (°F/°C) 22.0 22.0 22.1 22.0 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved Metals VOC (Boein	Other turbidity, odor turbidity, odor turbidity, odor Cond. (uS/cm) 517 517 518 517 S18 517 S18 517 S18 S19 (8020) (NOT)	D.O. (mg/L) 0.49 0.49 0.49 0.49 0.49 0.49 (MYPH-G) (MYPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ba) (Be) (Ca)	PH 6.26 6.25 6.25 6.25 6.25 CR BOTTLE NWTPH-GX CDD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -62.6 -62.7 -63.0 -62.7 TYPE (Circle aportion of the content of the	#DIV/0! #DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (O'NO2)	non-standard and ase) CI) (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:	Temp (°F/°C) 22.0 22.0 22.1 22.0 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved Metals VOC (Boein	Cond. (uS/cm) 517 517 518 517 NALYSIS AL 0) (8020) (N 1) (NWTPH-Intrivity) (TDS C) (Total PO4 e) (WAD Cy o) (As) (Sb) (Se g short list)	D.O. (mg/L) 0.49 0.49 0.49 0.49 0.49 0.49 (MYPH-G) (MYPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ba) (Be) (Ca)	PH 6.26 6.25 6.25 6.25 6.25 CR BOTTLE NWTPH-GX CDD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -62.6 -62.7 -63.0 -62.7 TYPE (Circle aportion of the content of the	#DIV/0! #DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (O'NO2)	non-standard and ase) CI) (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:	Temp (°F/°C) 22.0 22.0 22.0 22.1 22.0 TYPICAL A (8260) (8010 (8270) (PAF (PH) (Condu (Total Cyanid (Total Metals) (Dissolved M-VOC (Boein Methane Eth	Cond. (uS/cm) 517 517 518 517 NALYSIS AL 0) (8020) (N 1) (NWTPH-Intrivity) (TDS C) (Total PO4 e) (WAD Cy o) (As) (Sb) (Se g short list)	D.O. (mg/L) 0.49 0.49 0.49 0.49 0.49 0.49 (MYPH-G) (MYPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ba) (Be) (Ca)	PH 6.26 6.25 6.25 6.25 6.25 CR BOTTLE NWTPH-GX CDD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -62.6 -62.7 -63.0 -62.7 TYPE (Circle aportion of the content of the	#DIV/0! #DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (O'NO2)	non-standard and ase) CI) (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:	Temp (°F/°C) 22.0 22.0 22.1 22.0 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved Metals VOC (Boein	Cond. (uS/cm) 517 517 518 517 NALYSIS AL 0) (8020) (N 1) (NWTPH-Intrivity) (TDS C) (Total PO4 e) (WAD Cy o) (As) (Sb) (Se g short list)	D.O. (mg/L) 0.49 0.49 0.49 0.49 0.49 0.49 (MYPH-G) (MYPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ba) (Be) (Ca)	PH 6.26 6.25 6.25 6.25 6.25 CR BOTTLE NWTPH-GX CDD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -62.6 -62.7 -63.0 -62.7 TYPE (Circle aportion of the content of the	#DIV/0! #DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (O'NO2)	non-standard and ase) CI) (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:	Temp (°F/°C) 22.0 22.0 22.0 22.1 22.0 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 517 517 518 517 NALYSIS AL 0) (8020) (N 1) (NWTPH-Intrivity) (TDS C) (Total PO4 e) (WAD Cy o) (As) (Sb) (Se g short list)	D.O. (mg/L) 0.49 0.49 0.49 0.49 0.49 0.49 0.10 0.49	PH 6.26 6.25 6.25 6.25 6.25 CR BOTTLE NWTPH-GX CDD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -62.6 -62.7 -63.0 -62.7 TYPE (Circle aportion of the content of the	#DIV/0! #DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (O'NO2)	non-standard and ase) CI) (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 5	Temp (°F/°C) 22.0 22.0 22.0 22.1 22.0 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 517 517 518 517 NALYSIS AL 0) (8020) (N I) (NWTPH-lectivity) (TDS C) (Total PO4 e) (WAD Cy 0) (As) (Sb) (letals) (As) (Sb g short list) lane Ethene Ac	D.O. (mg/L) 0.49 0.49 0.49 0.49 0.49 0.49 0.10 0.49	PH 6.26 6.25 6.25 6.25 6.25 CR BOTTLE NWTPH-GX CDD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -62.6 -62.7 -63.0 -62.7 TYPE (Circle aportion of the content of the	#DIV/0! #DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (O'NO2)	non-standard and ase) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR



Event:	ne <u>:</u>	Boeing Ren	1011		Project Numbe	er <u>:</u>	0025217.099.0	99	
		Aug-21			Date/Time:	8/ 10 /2021@	1230		
ample Nun	nber:	RGWDUP3	2108		Weather:	SUNNY, 80s			
ındau Rep	resentative:	BXM							
ATER LEV	/EL/WELL/PU	RGE DATA							
ell Conditio	on:	Secure (YES)	Damaged (N	(O)	Describe:	Flush Mount		
TW Before	Purging (ft)	11.4	Time:	1136	Flow through ce	ll vol.		GW Meter No.(s	SLOPE 8
		8/ 10 /2021	1137	End Purge:	_	8/ 10 /2021 @	1157	Gallons Purged:	
urge water d	lisposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	•	6 1	-				_		
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
		`	(0 /	ters for three	. ,	dings within the fo		>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
	<u> </u>						- <u></u>		
						-			-
		Ι	DUPL	ICAT	E TO F	RGW224	4S		
							- ~		
	-								
							· 		
1000000						-			
	LLECTION D		D 1		D /D T	DI ADDED			
mple Colle	cted With:		Bailer		Pump/Pump Type	_			
ade of:		Stainless Ste	el	PVC	Teflon	Polyethylene	Other	☐ Dedicated	
econ Proced	dure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
Bv Numerica	ıl Order)	Other	_		—	_			
By Numerica	· ·	Other		CLEAD CO	I ODI ESS NO C	_			
	· ·	-	, sheen, etc.):	CLEAR, CO	LORLESS, NO C	DDOR, NO SHEEN			
mple Desci	ription (color,	turbidity, odor				DDOR, NO SHEEN		Ferrous iron	Comments/
mple Desci	ription (color, t	turbidity, odor	D.O.	CLEAR, CO	ORP	DOOR, NO SHEEN Turbidity	DTW	Ferrous iron (Fe II)	Comments/ Observations
ample Descr	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	DDOR, NO SHEEN		Ferrous iron (Fe II)	Comments/ Observations
mple Desci Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.08	ORP (mV)	DOOR, NO SHEEN Turbidity	DTW		
ample Descr	Temp (°F/°C)	Cond. (uS/cm) 176.2	D.O. (mg/L) 0.31	pH 6.08 6.08	ORP (mV)	DOOR, NO SHEEN Turbidity	DTW		
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.08	ORP (mV)	DOOR, NO SHEEN Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 23.6 23.6	Cond. (uS/cm) 176.2	D.O. (mg/L) 0.31	pH 6.08 6.08	ORP (mV) -15.9	DOOR, NO SHEEN Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 23.6 23.6 23.6	Cond. (uS/cm) 176.2 177.0	D.O. (mg/L) 0.31 0.27	pH 6.08 6.08 6.08	ORP (mV) -15.9 -16.1	DOOR, NO SHEEN Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6	Cond. (uS/cm) 176.2 177.0 178.6 177.4	D.O. (mg/L) 0.31 0.27 0.28 0.29	6.08 6.08 6.08 6.08 6.08	ORP (mV) -15.9 -16.1 -16.2 -16.4	DDOR, NO SHEEN Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6	Cond. (uS/cm) 176.2 177.0 177.7 178.6 177.4 NALYSIS AI	D.O. (mg/L) 0.31 0.27 0.28 0.29	6.08 6.08 6.08 6.08 6.08	ORP (mV) -15.9 -16.1 -16.2 -16.4 -16.2 TYPE (Circle a)	DOOR, NO SHEEN Turbidity	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010	Cond. (uS/cm) 176.2 177.0 177.7 178.6 177.4 NALYSIS AI	D.O. (mg/L) 0.31 0.27 0.28 0.29 LOWED PE	6.08 6.08 6.08 6.08 6.08 R BOTTLE	ORP (mV) -15.9 -16.1 -16.2 -16.4 -16.2 TYPE (Circle ap (BTEX)	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.6 23.6 23.6 (8260) (8010) (8270) (PAF	Cond. (uS/cm) 176.2 177.0 177.7 178.6 177.4 NALYSIS AI O) (8020) (NI) (NWTPH-	D.O. (mg/L) 0.31 0.31 0.27 0.28 0.29 LOWED PE	6.08 6.08 6.08 6.08 6.08 R BOTTLE NWTPH-Gx) -Dx) (TPH-	ORP (mV) -15.9 -16.1 -16.2 -16.4 -16.2 TYPE (Circle approximately (BTEX)) HCID) (8081) (Turbidity (NTU) pplicable or write	DTW (ft) non-standard an	(Fe II) nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu	Cond. (uS/cm) 176.2 177.0 178.6 177.4 NALYSIS AI 0) (8020) (NI) (NWTPH- lactivity) (TD:	D.O. (mg/L) 0.31 0.31 0.27 0.28 0.29 LOWED PENWTPH-G) (MWTPH-G) (MWTPH	6.08 6.08 6.08 6.08 6.08 R BOTTLE NWTPH-Gx) -Dx) (TPH-I	ORP (mV) -15.9 -16.1 -16.2 -16.4 -16.2 TYPE (Circle ap (BTEX) HCID) (8081) (dity) (Alkalinity)	Turbidity (NTU) pplicable or write (8141) (Oil & Gre (HCO3/CO3) (6	DTW (ft) non-standard an	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010 (8270) (PAF (PH) (Conduction)) (TOO (COD) (TOO (COD))	Cond. (uS/cm) 176.2 177.0 178.6 177.4 NALYSIS AI (D) (8020) (N H) (NWTPH- lectivity) (TDS)	D.O. (mg/L) 0.31 0.27 0.28 0.29 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B	6.08 6.08 6.08 6.08 6.08 R BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbio dahl Nitrogen	ORP (mV) -15.9 -16.1 -16.2 -16.4 -16.2 TYPE (Circle approximately (BTEX)) HCID) (8081) (Turbidity (NTU) pplicable or write (8141) (Oil & Gre (HCO3/CO3) (6	DTW (ft) non-standard an	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.6 23.6 23.6 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOO (Total Cyanid	Cond. (uS/cm) 176.2 177.0 177.7 178.6 177.4 NALYSIS AI (D) (8020) (N I) (NWTPH- activity) (TD: (C) (Total PO-	D.O. (mg/L) 0.31 0.27 0.28 0.29 LOWED PE WTPH-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) (Turbic dahl Nitrogen Cyanide)	ORP (mV) -15.9 -16.1 -16.2 -16.4 -16.2 TYPE (Circle ap (BTEX)) HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3)	Turbidity (NTU) pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (67/NO2)	DTW (ft) non-standard an ase) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA Solution WA Solutio	Observations OR □ OR □
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.6 23.6 23.6 (8260) (8010 (8270) (PAF- (pH) (Condu- (COD) (Total Cyanidal Metals)	Cond. (uS/cm) 176.2 177.0 177.7 178.6 177.4 NALYSIS AI O) (8020) (N f) (NWTPH- detivity) (TDS C) (Total PO4 e) (WAD Cy) (As) (Sb) (D.O. (mg/L) 0.31 0.27 0.28 0.29 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide)	ORP (mV) -15.9 -16.1 -16.2 -16.4 -16.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (G/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR g) (K) (Na)
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.6 23.6 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 176.2 177.0 177.7 178.6 177.4 NALYSIS AI (NWTPH- lectivity) (TDS (C) (Total PO- e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (second)	D.O. (mg/L) 0.31 0.27 0.28 0.29 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -15.9 -16.1 -16.2 -16.4 -16.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (67/NO2)	DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR g) (K) (Na)
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.6 23.6 23.6 (8260) (8010 (8270) (PAF- (pH) (Condu- (COD) (Total Cyanidal Metals)	Cond. (uS/cm) 176.2 177.0 177.7 178.6 177.4 NALYSIS AI (NWTPH- lectivity) (TDS (C) (Total PO- e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (second)	D.O. (mg/L) 0.31 0.27 0.28 0.29 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -15.9 -16.1 -16.2 -16.4 -16.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (G/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR g) (K) (Na)
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 176.2 177.0 177.7 178.6 177.4 NALYSIS AI (NWTPH- lectivity) (TDS (C) (Total PO- e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (second)	D.O. (mg/L) 0.31 0.27 0.28 0.29 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -15.9 -16.1 -16.2 -16.4 -16.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (G/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR g) (K) (Na)
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 176.2 177.0 177.7 178.6 177.4 NALYSIS AI (NWTPH- activity) (TD: (C) (Total PO4 e) (WAD Cy (C) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.31 0.27 0.28 0.29 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -15.9 -16.1 -16.2 -16.4 -16.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (G/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR g) (K) (Na)
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 176.2 177.0 177.7 178.6 177.4 NALYSIS AI (NWTPH- activity) (TD: (C) (Total PO4 e) (WAD Cy (C) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.31 0.27 0.28 0.29 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -15.9 -16.1 -16.2 -16.4 -16.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (G/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR g) (K) (Na)
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 176.2 177.0 177.7 178.6 177.4 NALYSIS AI (NWTPH- activity) (TD: (C) (Total PO4 e) (WAD Cy (C) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.31 0.27 0.28 0.29 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -15.9 -16.1 -16.2 -16.4 -16.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (G/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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: UANTITY	Temp (°F/°C) 23.6 23.6 23.6 23.6 23.6 23.6 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 176.2 177.0 177.7 178.6 177.4 NALYSIS AI (D) (8020) (NI) (NWTPH-lectivity) (TDS) (C) (Total PO2e) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb) (anne Ethene Acceptance (US) (Sc) (Sc) (Sc) (Sc) (Sc) (Sc) (Sc) (S	D.O. (mg/L) 0.31 0.27 0.28 0.29 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca cetylene	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -15.9 -16.1 -16.2 -16.4 -16.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (G/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR g) (K) (Na)
Replicate 1 2 3 4 Average: UANTITY	Temp (°F/°C) 23.6 23.6 23.6 23.6 23.6 23.6 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 176.2 177.0 177.7 178.6 177.4 NALYSIS AI (NWTPH- activity) (TD: (C) (Total PO4 e) (WAD Cy (C) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.31 0.27 0.28 0.29 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca cetylene	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -15.9 -16.1 -16.2 -16.4 -16.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (G/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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: UANTITY	Temp (°F/°C) 23.6 23.6 23.6 23.6 23.6 23.6 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 176.2 177.0 177.7 178.6 177.4 NALYSIS AI (D) (8020) (NI) (NWTPH-lectivity) (TDS) (C) (Total PO2e) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb) (anne Ethene Acceptance (US) (Sc) (Sc) (Sc) (Sc) (Sc) (Sc) (Sc) (S	D.O. (mg/L) 0.31 0.27 0.28 0.29 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca cetylene	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -15.9 -16.1 -16.2 -16.4 -16.2 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (G/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR g) (K) (Na)



Project Nam	ne:	Boeing Ren	ton		Project Number	r <u>:</u>	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 11 /2021@	1030		
Sample Nun	nber:	RGWDUP4	210811		Weather:	INSIDE			
Landau Rep	resentative:	BXM							
WATER LEV	/EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES)	Damaged (N	IO)	Describe:	FLUSH		
DTW Before		4.80	Time:	- '	Flow through ce			GW Meter No.(s	SI OPE 8
	Date/Time:		1041	End Purge:	-	8/ 11 /2021 @	1102	Gallons Purged:	SLOI E 8
Purge water d		8/11 /2021	55-gal Drum	Ě	Storage Tank	6/11 /2021 (b) Ground		SITE TREATME	ENIT CVCTEM
ruige water c	iisposed to.		55-gai Diuiii		Storage Talik	U Ground	Other	SHE TREATME	INI SISIEM
TP:	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	
								-	
		DH	PLICA	ATE 1	TO RGV	W014S		•	
						770115			
							- <u></u>		
SAMDI E CO	DLLECTION D								
Sample Colle			Bailer		Pump/Pump Type	DED. BLADDER			
Made of:	cted with.	Stainless Stee		PVC		_	Other	Dedicated.	
			_		Teflon	Polyethylene	U Other	☐ Dedicated	
Decon Procee	dure:	Alconox Was	sh 📋	Tap Rinse	DI Water	Dedicated			
		—			_				
(By Numerica		Other							
. •		—	, sheen, etc.):	CLEAR, CO	DLORLESS, NO C	DOR, NO SHEEN	, SOME ORANG	GE SOLIDS	
Sample Descri	ription (color,	turbidity, odor	· -						Comments/
		—	D.O. (mg/L)	CLEAR, CO	OLORLESS, NO COORP (mV)	DOOR, NO SHEEN Turbidity (NTU)	DTW (ft)	GE SOLIDS Ferrous iron (Fe II)	Comments/ Observations
Sample Descri	ription (color,	turbidity, odor	D.O. (mg/L)	pН	ORP	Turbidity	DTW	Ferrous iron	
Sample Describerate Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.29	ORP (mV)	Turbidity	DTW	Ferrous iron	
Replicate 1 2	Temp (°F/°C) 23.1 23.1	Cond. (uS/cm) 600	D.O. (mg/L) 0.33 0.31	pH 6.29 6.29	ORP (mV) -27.9	Turbidity	DTW	Ferrous iron	
Sample Describerate Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.29	ORP (mV)	Turbidity	DTW	Ferrous iron	
Replicate 1 2	Temp (°F/°C) 23.1 23.1	Cond. (uS/cm) 600	D.O. (mg/L) 0.33 0.31	pH 6.29 6.29	ORP (mV) -27.9	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3	Temp (°F/°C) 23.1 23.1 23.1	Cond. (uS/cm) 600 600	D.O. (mg/L) 0.33 0.31	pH 6.29 6.29 6.29	ORP (mV) -27.9 -28.1 -28.5	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1	Cond. (uS/cm) 600 600 601 601	D.O. (mg/L) 0.33 0.31 0.33 0.33	6.29 6.29 6.29 6.29 6.29	ORP (mV) -27.9 -28.1 -28.5 -28.8 -28.3	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1 TYPICAL A	Cond. (uS/cm) 600 600 601 601 NALYSIS AL	D.O. (mg/L) 0.33 0.31 0.33 0.33 0.32 LOWED PE	6.29 6.29 6.29 6.29 6.29 6.29	ORP (mV) -27.9 -28.1 -28.5 -28.8 -28.3 TYPE (Circle ap	Turbidity	DTW (ft)	Ferrous iron (Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1 (8260) (8010	Cond. (uS/cm) 600 601 601 601 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.33 0.31 0.31 0.33 0.32 LLOWED PE	6.29 6.29 6.29 6.29 6.29 6.29 REPORTLE	ORP (mV) -27.9 -28.1 -28.5 -28.8 -28.3 TYPE (Circle ap) (BTEX)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II) malysis below) WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010) (8270D) (PA	Cond. (uS/cm) 600 600 601 601 601 NALYSIS AL 0) (8020) (N	D.O. (mg/L) 0.33 0.31 0.33 0.32 LOWED PE	6.29 6.29 6.29 6.29 6.29 6.29 CR BOTTLE NWTPH-GX	ORP (mV) -27.9 -28.1 -28.5 -28.8 -28.3 TYPE (Circle approximately (BTEX) H-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & G	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) malysis below) WA	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conductive)	Cond. (uS/cm) 600 600 601 601 601 NALYSIS AL 0) (8020) (N AH) (NWTPHactivity) (TDS	D.O. (mg/L) 0.33 0.31 0.33 0.32 LOWED PERMYPH-G) (M-D) (NWTP	6.29 6.29 6.29 6.29 6.29 6.29 CR BOTTLE NWTPH-GX PH-Dx) (TPH-GOD) (Turbi	ORP (mV) -27.9 -28.1 -28.5 -28.8 -28.3 TYPE (Circle approximately (BTEX) H-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) malysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1 (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 600 600 601 601 601 NALYSIS AL 0) (8020) (N AH) (NWTPHactivity) (TDS	D.O. (mg/L) 0.33 0.31 0.31 0.33 0.32 LOWED PE WTPH-G) (NWTP 6) (TSS) (B	6.29 6.29 6.29 6.29 6.29 6.29 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) GDD) (Turbidahl Nitroger	ORP (mV) -27.9 -28.1 -28.5 -28.8 -28.3 TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity)	Turbidity (NTU) pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) malysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1 (8260) (8010 (8270D) (PA (COD) (Tool (Total Cyanid	Cond. (uS/cm) 600 600 601 601 601 NALYSIS AI 0) (8020) (N AH) (NWTPF activity) (TDS C) (Total PO4	D.O. (mg/L) 0.33 0.31 0.31 0.33 0.32 LOWED PE WTPH-G) (NWTP S) (TSS) (E H-D) (NWTP S) (TSS) (E H) (Total Kie anide) (Free	6.29 6.29 6.29 6.29 6.29 6.29 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) dahl Nitroger Cyanide)	ORP (mV) -27.9 -28.1 -28.5 -28.8 -28.3 TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6	DTW (ft) non-standard and arease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WA WO	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals	Cond. (uS/cm) 600 601 601 601 NALYSIS AI 0) (8020) (N AH) (NWTPF- activity) (TDS C) (Total PO4 le) (WAD Cy) (As) (Sb) (D.O. (mg/L) 0.33 0.31 0.33 0.32 LLOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.29 6.29 6.29 6.29 6.29 6.29 CR BOTTLE (NWTPH-Gx, PH-Dx) (TPH-GX)	ORP (mV) -27.9 -28.1 -28.5 -28.8 -28.3 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G) (HCO3/CO3) (ONO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF ON ONE OF OTHER OF 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) 23.1 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals	Cond. (uS/cm) 600 600 601 601 601 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 le) (WAD Cy 1) (As) (Sb) (cetals) (As) (Sb) (Sb)	D.O. (mg/L) 0.33 0.31 0.33 0.32 LLOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.29 6.29 6.29 6.29 6.29 6.29 CR BOTTLE (NWTPH-Gx, PH-Dx) (TPH-GX)	ORP (mV) -27.9 -28.1 -28.5 -28.8 -28.3 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G) (HCO3/CO3) (ONO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF ON ONE OF OTHER OF 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) 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 600 600 601 601 601 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 le) (WAD Cy 1) (As) (Sb) (cetals) (As) (Sb) (Sb)	D.O. (mg/L) 0.33 0.31 0.33 0.32 LOWED PERWITPH-G) (MITPH-G) (NWTPH-G) (NWTPH-G) (MITPH-G) (6.29 6.29 6.29 6.29 6.29 6.29 CR BOTTLE (NWTPH-Gx, PH-Dx) (TPH-GX)	ORP (mV) -27.9 -28.1 -28.5 -28.8 -28.3 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G) (HCO3/CO3) (ONO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF ON ONE OF OTHER OF 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) 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 600 600 601 601 601 NALYSIS AL 0) (8020) (N AH) (NWTPHactivity) (TDS C) (Total PO4 de) (WAD Cy de) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.33 0.31 0.33 0.32 LOWED PERWITPH-G) (MITPH-G) (NWTPH-G) (NWTPH-G) (MITPH-G) (6.29 6.29 6.29 6.29 6.29 6.29 CR BOTTLE (NWTPH-Gx, PH-Dx) (TPH-GX)	ORP (mV) -27.9 -28.1 -28.5 -28.8 -28.3 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G) (HCO3/CO3) (ONO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF ON ONE OF OTHER OF 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) 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 600 600 601 601 601 NALYSIS AL 0) (8020) (N AH) (NWTPHactivity) (TDS C) (Total PO4 de) (WAD Cy de) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.33 0.31 0.33 0.32 LOWED PERMYPH-G) (MI-D) (NWTP S) (TSS) (But S) (Total Kiemanide) (Free Ba) (Be) (Catal S) (Ba) (Be) (Catal S) (Ba) (Be) (Catal S)	6.29 6.29 6.29 6.29 6.29 6.29 CR BOTTLE (NWTPH-Gx, PH-Dx) (TPH-GX)	ORP (mV) -27.9 -28.1 -28.5 -28.8 -28.3 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G) (HCO3/CO3) (ONO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF ON ONE OF OTHER OF 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) 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 600 600 601 601 601 NALYSIS AL 0) (8020) (N AH) (NWTPHactivity) (TDS C) (Total PO4 de) (WAD Cy de) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.33 0.31 0.33 0.32 LOWED PERMYPH-G) (MI-D) (NWTP S) (TSS) (But S) (Total Kiemanide) (Free Ba) (Be) (Catal S) (Ba) (Be) (Catal S) (Ba) (Be) (Catal S)	6.29 6.29 6.29 6.29 6.29 6.29 CR BOTTLE (NWTPH-Gx, PH-Dx) (TPH-GX)	ORP (mV) -27.9 -28.1 -28.5 -28.8 -28.3 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G) (HCO3/CO3) (ONO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF ON ONE OF OTHER OF 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) 23.1 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 600 600 601 601 601 NALYSIS AL 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 le) (WAD Cy 0) (As) (Sb) (etals) (As) (Sb g short list)	D.O. (mg/L) 0.33 0.31 0.31 0.33 0.32 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca c) (Ba) (Be) (Ca cetylene	6.29 6.29 6.29 6.29 6.29 6.29 CR BOTTLE (NWTPH-Gx, PH-Dx) (TPH-GX)	ORP (mV) -27.9 -28.1 -28.5 -28.8 -28.3 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G) (HCO3/CO3) (ONO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF ON ONE OF OTHER OF ONE OF 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) 23.1 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 600 600 601 601 601 NALYSIS AL 0) (8020) (N AH) (NWTPHactivity) (TDS C) (Total PO4 de) (WAD Cy de) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.33 0.31 0.31 0.33 0.32 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca c) (Ba) (Be) (Ca cetylene	6.29 6.29 6.29 6.29 6.29 6.29 CR BOTTLE (NWTPH-Gx, PH-Dx) (TPH-GX)	ORP (mV) -27.9 -28.1 -28.5 -28.8 -28.3 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G) (HCO3/CO3) (ONO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF ON ONE OF OTHER OF 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) 23.1 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 600 600 601 601 601 NALYSIS AL 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 le) (WAD Cy 0) (As) (Sb) (etals) (As) (Sb g short list)	D.O. (mg/L) 0.33 0.31 0.31 0.33 0.32 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca c) (Ba) (Be) (Ca cetylene	6.29 6.29 6.29 6.29 6.29 6.29 CR BOTTLE (NWTPH-Gx, PH-Dx) (TPH-GX)	ORP (mV) -27.9 -28.1 -28.5 -28.8 -28.3 TYPE (Circle ago) (BTEX) H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (Pb) (Mg) (Mn) (Ni) (b) (Mg) (Mn) (Ni)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF ON ONE OF OTHER OF ONE OF O	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:		Aug-21			Date/Time:	8/ 11 /2021@	1240		
Sample Nur	nber:	RGW009S-	210811		Weather:	INSIDE			
Landau Rep	resentative:	BXM			•				
WATER LEV	VEL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES)	Damaged (N	(O)	Describe:	FLUSH		
DTW Before		5.07	Time:		Flow through ce		120011	GW Meter No.(c SI ODE 8
	Date/Time:			End Purge:	_	8/ 11 /2021 @	1220	Gallons Purged:	S SLOI E 8
Purge water of		8/ 11 /2021	55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	ENT CVCTEM
Turge water t	nsposed to.		55-gai Dium		Storage Talik	_	_	SITE TREATM	ENT STSTEM
Time	Temp (°F/°C)	Cond.	D.O.	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge	Comments/ Observations
Time		(uS/cm) ls: Stablizatio	(mg/L) on of Parame	ters for three	, ,	dings within the fo	. ,	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units		+/- 10%	< 0.3 ft	through cell	
1220	21.1	384.4	0.24	6.26	-5.9		5.07		
1223	21.3	385.6	0.25	6.3	-12.9		5.07		
1226		388.8	0.24	6.32	-16.9		5.07	-	
							3.07		
1229		391.2	0.27	6.34	-22.5				
1232	21.4	395.8	0.27	6.35	-27				
1235	21.4	396.7	0.26	6.35	-28.5				
SAMPLE CO	LLECTION D	OATA							
Sample Colle	cted With:		Bailer		Pump/Pump Type	DED. 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)	Other							
Sample Desc	ription (color,	turbidity, odoi	, sheen, etc.):	CLEAR, CO	LORLESS, NO C	DOR, NO 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	` ′	` ′		6.25	` '	(1110)	(11)	(1 (11)	observations
1	21.4	397	0.26	6.35	-29.1				
2	21.4	396.7	0.27	6.35	-29.5				
3	21.4	396.8	0.26	6.35	-29.8				
4	21.4	396.8	0.26	6.35	-29.9				
Average:	21.4	396.8	0.26	6.35	-29.6				
OHANTITY	TVDICALA	NAI VCIC AI	I OMED DE	D BUTTI E	TVPF (Cirolo a-	oplicable or write	non-standard a	nalveie balow)	
3		0) (8020) (1				pricable of write	non-standard at	WA	OR 🗌
	` ` `					(8141) (Oil & Gr	rease)	WA 🗆	OR 🗆
						(HCO3/CO3) (C			
1	(COD) (TO	C) (Total PO	4) (Total Kie	dahl Nitroger	n) (NH3) (NO3/	NO2)			
	(Total Cyanic	le) (WAD Cy	vanide) (Free	Cyanide)					
	(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)
	1		b) (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								
	Methane Eth	nane Ethene A	cetylene						
	1								
	others								
	Jameis								
Duplicate Sar	mple No(s):								
Comments:									



Project Nam	ne:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ /2021@			
Sample Nun	nber:	RGW010S-	210811		Weather:	INSIDE			
Landau Rep	resentative:	BXM			•				
WATER LEV	VEL/WELL/PU	IDCE DATA							
			`	Damaged (N	(O)	Describe:	ELUCII		
Well Condition		Secure (YES					FLUSH		
DTW Before		5.20	Time:		Flow through ce			GW Meter No.(
Begin Purge:	Date/Time:) NA	End Purge:	Date/Time:	8/ /2021 @		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	
	-								
	W	ATER	LEV	EL O	NLY			-	
							-		
								-	
	-								
SAMPLE CO	LLECTION D	OATA							
Sample Colle	ected With:		Bailer		Pump/Pump Type	·			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	dure:	Alconox Wa	ch 🗖	Tap Rinse	DI Water	Dedicated	_	_	
(By Numerica			U	rap remse	□ Di ''attel	Dedicated			
		Other							
. •	ŕ	Other	1 ()						
	ription (color,	₩	, sheen, etc.):						
Sample Descri	ription (color,	turbidity, odor	· · · · · · · ·		ORP	Turbidity	DTW	Ferrous iron	Comments/
. •	ŕ	₩	D.O.	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descri Replicate	ription (color,	turbidity, odor	· · · · · · · ·			•			
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 3	ription (color,	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	ription (color,	turbidity, odor	D.O.			•			
Replicate 1 2 3 4	Temp (°F/°C) #DIV/0!	turbidity, odor 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!	turbidity, odor 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 () (8020) (N	#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) (8270D) (PA	#DIV/0! **NALYSIS AI 0) (8020) (NAH) (NWTPI	#DIV/0! LOWED PR	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH	#DIV/0! TYPE (Circle ap.) (BTEX) H-HCID) (8081)	#DIV/0!	(ft)	(Fe II) malysis below) WA WA WA	Observations 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 activity) (TD	#DIV/0! LLOWED PH NWTPH-G) (NWTH S) (TSS) (E	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi	#DIV/0! TYPE (Circle ap.) (BTEX) H-HCID) (8081)	#DIV/0! pplicable or write to (8141) (Oil & Gr.) (HCO3/CO3) (Gr.)	(ft)	(Fe II) malysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (801) (8270D) (P4) (COD) (TOO	#DIV/0! **NALYSIS AI 0) (8020) (NAH) (NWTPH activity) (TD	#DIV/0! LOWED PI NWTPH-G) (NWTI S) (TSS) (E	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbicatal) Nitroger	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity)	#DIV/0! pplicable or write to (8141) (Oil & Gr.) (HCO3/CO3) (Gr.)	(ft)	(Fe II) malysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (8010) (8270D) (PA (COD) (TOO) (Total Cyanic	#DIV/0! #DIV/0! **NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD: C) (Total PO- de) (WAD Cy	#DIV/0! LLOWED PR WTPH-G) (NWTP S) (TSS) (E 4) (Total Kie vanide) (Free	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitrogen Cyanide)	#DIV/0! TYPE (Circle aport) (BTEX) H-HCID) (8081) dity) (Alkalinity (Alkalinity) (NH3) (NO3/1)	#DIV/0! pplicable or write to (8141) (Oil & Gr.) (HCO3/CO3) (Gr.)	non-standard and rease)	(Fe II) malysis below) WA WA WA 33) (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 **O) (8020) (N AH) (NWTPI **Lectivity) (TD C) (Total PO- de) (WAD Cy) (As) (Sb) (#DIV/0! **LOWED PF **NWTPH-G) (NWTF **S) (TSS) (E **4) (Total Kie **/anide) (Free **Ba) (Be) (C	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write in the interest of the in	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:	#DIV/0! TYPICAL A (8260) (801) (8270D) (PA (PH) (Condu (COD) (Total Cyanic (Total Metals) (Dissolved M	#DIV/0! #DIV/0! **NALYSIS AI **O) (8020) (N AH) (NWTPH **Letivity) (TD: C) (Total PO- de) (WAD Cy) (As) (Sb) (fetals) (As) (Sb) (#DIV/0! **LOWED PF **NWTPH-G) (NWTF **S) (TSS) (E **4) (Total Kie **/anide) (Free **Ba) (Be) (C	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write in the interest of the in	non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA (NO2) (F)	Observations OR OR OR OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (8010) (8270D) (PA (DH) (Conduction (COD) (Total Cyanical	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- de) (WAD Cy) (As) (Sb) (detals) (As) (Sl ag short list)	#DIV/0! LOWED PINWTPH-G) (NWTTH-D) (NWTTH-G) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write in the interest of the in	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:	#DIV/0! TYPICAL A (8260) (8010) (8270D) (PA (DH) (Conduction (COD) (Total Cyanical	#DIV/0! #DIV/0! **NALYSIS AI **O) (8020) (N AH) (NWTPH **Letivity) (TD: C) (Total PO- de) (WAD Cy) (As) (Sb) (fetals) (As) (Sb) (#DIV/0! LOWED PINWTPH-G) (NWTTH-D) (NWTTH-G) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write in the interest of the in	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:	#DIV/0! TYPICAL A (8260) (8010) (8270D) (PA (DH) (Conduction (COD) (Total Cyanical	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- de) (WAD Cy) (As) (Sb) (detals) (As) (Sl ag short list)	#DIV/0! LOWED PINWTPH-G) (NWTTH-D) (NWTTH-G) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write in the interest of the in	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:	#DIV/0! TYPICAL A (8260) (801) (8270D) (PA (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- de) (WAD Cy) (As) (Sb) (detals) (As) (Sl ag short list)	#DIV/0! LOWED PINWTPH-G) (NWTTH-D) (NWTTH-G) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write in the interest of the in	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:	#DIV/0! TYPICAL A (8260) (8010) (8270D) (PA (DH) (Conduction (COD) (Total Cyanical	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- de) (WAD Cy) (As) (Sb) (detals) (As) (Sl ag short list)	#DIV/0! LOWED PINWTPH-G) (NWTTH-D) (NWTTH-G) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write in the interest of the in	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:	#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- de) (WAD Cy) (As) (Sb) (detals) (As) (Sl ag short list)	#DIV/0! LOWED PINWTPH-G) (NWTTH-D) (NWTTH-G) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write in the interest of the in	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	#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- de) (WAD Cy) (As) (Sb) (detals) (As) (Sl ag short list)	#DIV/0! LOWED PINWTPH-G) (NWTTH-D) (NWTTH-G) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write in the interest of the in	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:	#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- de) (WAD Cy) (As) (Sb) (detals) (As) (Sl ag short list)	#DIV/0! LOWED PINWTPH-G) (NWTTH-D) (NWTTH-G) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0! #DIV/0! (8141) (Oil & Gr 0) (HCO3/CO3) (Gr NO2) (Pb) (Mg) (Mn) (Ni) (he) (Mg) (Mn) (Ni) (Mg) (Mn) (Ni) (Mg) (Mn) (Mg) (Mn) (Ni) (Mg) (Mn) (Mg) (Mn) (Mg) (Mn) (Mg) (Mn) (Mg) (Mn) (Mg) (Mg) (Mg) (Mg) (Mg) (Mg) (Mg) (Mg	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



Event:					Project Number	1.	0025217.099.0	77	
_		Aug-21			Date/Time:	8/ /2021@			
Sample Number	er:	RGW011D-	210811		Weather:	INSIDE			
Landau Repres	sentative:	BXM			•				
WATER LEVEI	I /W/ELL/DI	DCE DATA							
			١	Damaged (N	(O)	Describe:	ELLICH		
Well Condition:		Secure (YES)					FLUSH		
DTW Before Pur		5.22	Time:		Flow through ce			GW Meter No.(
Begin Purge: I	Date/Time:	8/ /2021 @	NA	End Purge:	Date/Time:	8/ /2021 @		Gallons Purged:	-
Purge water disp	sposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
Time	Temp (°F/°C)	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/ Observations
	` /	(uS/cm) s: Stablizatio	(mg/L) n 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	
								-	-
	XX 7 /	ATER	IEW	EI O	NI V			-	
		$\frac{11LN}{}$							
	_								
					-				
SAMPLE COLL	LECTION D	ATA							
	1 3371.1		Bailer		Pump/Pump Type	:			
Sample Collecte	ed With:	ш.	Danci						
Sample Collecte	ed With:	_	_	—		_	Other	Dedicated	
Made of:		Stainless Stee	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Made of: Decon Procedure	re:	Stainless Stee Alconox Was	el 🔲	—		_	Other	Dedicated	
Made of: Decon Procedure (By Numerical C	re: Order)	Stainless Stee Alconox Was	el 🔲	PVC Tap Rinse	Teflon	Polyethylene	Other	Dedicated	
Made of: Decon Procedure	re: Order)	Stainless Stee Alconox Was	el 🔲	PVC Tap Rinse	Teflon	Polyethylene	Other	Dedicated	
Made of: Decon Procedure (By Numerical C Sample Descript	re: Order) otion (color, t	Stainless Stee Alconox Was Other urbidity, odor	sh	PVC Tap Rinse	Teflon DI Water	Polyethylene Dedicated			Comments
Made of: Decon Procedure (By Numerical C	re: Order)	Stainless Stee Alconox Was	sh , sheen, etc.):	PVC Tap Rinse	Teflon	Polyethylene	DTW (ft)	Dedicated Ferrous iron (Fe II)	Comments/ Observations
Made of: Decon Procedure (By Numerical C) Sample Descript Replicate	re: Order) otion (color, t	Stainless Stee Alconox Was Other urbidity, odor	sh	PVC Tap Rinse	Teflon DI Water ORP	Polyethylene Dedicated Turbidity	DTW	Ferrous iron	
Made of: Decon Procedure (By Numerical C Sample Descript Replicate	re: Order) otion (color, t	Stainless Stee Alconox Was Other urbidity, odor	sh , sheen, etc.):	PVC Tap Rinse	Teflon DI Water ORP	Polyethylene Dedicated Turbidity	DTW	Ferrous iron	
Made of: Decon Procedure (By Numerical C) Sample Descript Replicate	re: Order) otion (color, t	Stainless Stee Alconox Was Other urbidity, odor	sh , sheen, etc.):	PVC Tap Rinse	Teflon DI Water ORP	Polyethylene Dedicated Turbidity	DTW	Ferrous iron	
Made of: Decon Procedure (By Numerical C Sample Descript Replicate	re: Order) otion (color, t	Stainless Stee Alconox Was Other urbidity, odor	sh , sheen, etc.):	PVC Tap Rinse	Teflon DI Water ORP	Polyethylene Dedicated Turbidity	DTW	Ferrous iron	
Made of: Decon Procedure (By Numerical C) Sample Descript Replicate 1 2	re: Order) otion (color, t	Stainless Stee Alconox Was Other urbidity, odor	sh , sheen, etc.):	PVC Tap Rinse	Teflon DI Water ORP	Polyethylene Dedicated Turbidity	DTW	Ferrous iron	
Made of: Decon Procedure (By Numerical C) Sample Descript Replicate 1 2 3 4	re: Order) Order) otion (color, t Temp (°F/°C)	Stainless Stee Alconox Was Other urbidity, odor Cond. (uS/cm)	bh	PVC Tap Rinse pH	ORP (mV)	Polyethylene Dedicated Turbidity (NTU)	DTW	Ferrous iron	
Made of: Decon Procedure (By Numerical Contents) Replicate 1 2 3	re: Order) otion (color, t	Stainless Stee Alconox Was Other urbidity, odor	sh , sheen, etc.):	PVC Tap Rinse	Teflon DI Water ORP	Polyethylene Dedicated Turbidity	DTW	Ferrous iron	
Made of: Decon Procedure (By Numerical C) Sample Descript Replicate 1 2 3 4 Average:	re: Order) otion (color, t Temp (°F/°C) #DIV/0!	Stainless Stee Alconox Was Other urbidity, odor Cond. (uS/cm) #DIV/0!	bl	PVC Tap Rinse pH #DIV/0!	ORP (mV)	Polyethylene Dedicated Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	
Made of: Decon Procedure (By Numerical C) Sample Descript Replicate 1 2 3 4 Average:	re: Order) Order) otion (color, t Temp (°F/°C) #DIV/0!	Stainless Stee Alconox Was Other urbidity, odor Cond. (uS/cm) #DIV/0!	#DIV/0!	PVC Tap Rinse pH #DIV/0!	ORP (mV) #DIV/0! TYPE (Circle ap	Polyethylene Dedicated Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	
Made of: Decon Procedure (By Numerical C) Sample Descript Replicate 1 2 3 4 Average: QUANTITY T: (8:	re: Order) otion (color, t Temp (°F/°C) #DIV/0! TYPICAL AI 8260) (8010	Stainless Stee Alconox Was Dother urbidity, odor Cond. (uS/cm) #DIV/0! NALYSIS AL () (8020) (N	#DIV/0!	PVC Tap Rinse pH #DIV/0! CR BOTTLE (NWTPH-GX)	ORP (mV) #DIV/0! TYPE (Circle ap) (BTEX)	Polyethylene Dedicated Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Observations
Made of: Decon Procedure (By Numerical Control of Sample Descript) Replicate 1	#DIV/0! FYPICAL A: 8260) (8010 8270D) (PA	Stainless Stee Alconox Was Dother Cond. (uS/cm) #DIV/0! NALYSIS AI D) (8020) (N H) (NWTPH	#DIV/0! LOWED PER INTPH-G) (NWTF	PVC Tap Rinse pH #DIV/0! CR BOTTLE (NWTPH-Gx) PH-Dx) (TPP	Teflon DI Water ORP (mV) #DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081)	Polyethylene Dedicated Turbidity (NTU) #DIV/0!	DTW (ft) non-standard and rease)	Ferrous iron (Fe II) malysis below) WA WA WA	Observations OR
Made of: Decon Procedure (By Numerical C Sample Descript Replicate 1 2 3 4 Average: QUANTITY T (8) (8)	#DIV/0! #YPICAL AI 8260) (8010 8270D) (PA	Stainless Stee Alconox Was Dother aurbidity, odor Cond. (uS/cm) #DIV/0! NALYSIS AL D) (8020) (N H) (NWTPH ctivity) (TDS	#DIV/0! #DIV/0! LOWED PERWIPH-G) (MOTHERS) (TSS) (E	PVC Tap Rinse pH #DIV/0! ER BOTTLE (NWTPH-Gx, PH-Dx) (TPH-SOD) (Turbical Ph-Dx) (Turbica	Teflon DI Water ORP (mV) #DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081)	#DIV/0! #DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (Gr.)	DTW (ft) non-standard and rease)	Ferrous iron (Fe II) malysis below) WA WA WA	Observations OR
Made of: Decon Procedure (By Numerical C) Sample Descript Replicate 1 2 3 4 Average: QUANTITY T (8) (8) (9)	#DIV/0! #YPICAL AI 8260) (8010 8270D) (PA pH) (Condu	Stainless Stee Alconox Was Dother aurbidity, odor Cond. (uS/cm) #DIV/0! NALYSIS AL D) (8020) (N H) (NWTPH ctivity) (TDS	#DIV/0! #DIV/0! LOWED PERMITH-G) (MUTPH-G) (NWTFF) (TSS) (E) (Total Kie	PVC Tap Rinse pH #DIV/0! CR BOTTLE (NWTPH-Gx.) PH-Dx) (TPH-GX.) GDD) (Turbicklahl Nitroger	#DIV/0! #TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity)	#DIV/0! #DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (Gr.)	DTW (ft) non-standard and rease)	Ferrous iron (Fe II) malysis below) WA WA WA	Observations OR
Made of: Decon Procedure (By Numerical C) Sample Descript Replicate 1 2 3 4 Average: QUANTITY TY (8:	#DIV/0! FYPICAL A: 8260) (8010 8270D) (PAPH) (Conduction Color) (Total Cyanid	#DIV/0! **NALYSIS AL* **O) (8020) (N.H) (NWTPH- ctivity) (TDS* **C) (Total PO4* e) (WAD Cy.	#DIV/0! #DIV/0! **LOWED PE **WTPH-G) (NWTP **G) (TSS) (E **E) (Total Kie anide) (Free	PVC Tap Rinse pH #DIV/0! ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH-BOD) (Turbicedahl Nitroger Cyanide)	#DIV/0! #DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3/	#DIV/0! #DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (Gr.)	DTW (ft) non-standard and arease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ONE OF THE CONTRACT OF THE CO	Observations OR OR OR OR
Made of: Decon Procedure (By Numerical Content of the Content of t	#DIV/0! #PIV/0! TYPICAL AI 8260) (8010 8270D) (PA pH) (Condu COD) (TOC Total Cyanid	#DIV/0! **NALYSIS AL **D) (8020) (N **H) (NWTPH ctivity) (TDS **C) (Total PO4 e) (WAD Cy (As) (Sb) (S)	#DIV/0! #DIV/0! LOWED PE IWTPH-G) (I-D) (NWTP S) (TSS) (E C) (Total Kie anide) (Free Ba) (Be) (Ca	#DIV/0! #BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	#DIV/0! #DIV/0! TYPE (Circle aportion of the content of the cont	#DIV/0! #DIV/0! #DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (O./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 ON ONE OF OTHER OF ONE OF O	Observations OR OR OR OR
Made of: Decon Procedure (By Numerical Content of the Sample Descript) Replicate 1	#DIV/0! #PIV/0! TYPICAL AI 8260) (8010 8270D) (PA pH) (Condu COD) (TOC Total Cyanid	#DIV/0! **NALYSIS AL O) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (As) (Sb) (Setals) (As) (Sb) (Sb)	#DIV/0! #DIV/0! LOWED PE IWTPH-G) (I-D) (NWTP S) (TSS) (E C) (Total Kie anide) (Free Ba) (Be) (Ca	#DIV/0! #BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	#DIV/0! #DIV/0! TYPE (Circle aportion of the content of the cont	#DIV/0! #DIV/0! #DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (O./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 ON ONE OF OTHER OF ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Made of: Decon Procedure (By Numerical Content of the Sample Descript) Replicate 1	#DIV/0! #DIV/0! #YPICAL AI 8260) (8010 8270D) (PA pH) (Condu COD) (TOC Total Cyanid Total Metals) Dissolved Metals VOC (Boein	#DIV/0! **NALYSIS AL O) (8020) (N H) (NWTPH ctivity) (TDS C) (Total PO4 e) (As) (Sb) (Setals) (As) (Sb) (Sb)	#DIV/0! #DIV/0! LOWED PE WTPH-G) (ILD) (NWTF S) (TSS) (E E) (Total Kie anide) (Free Ba) (Be) (Ca e) (Ba) (Be) (Ca e) (Ba) (Be) (Ca	#DIV/0! #BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	#DIV/0! #DIV/0! TYPE (Circle aportion of the content of the cont	#DIV/0! #DIV/0! #DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (O./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 ON ONE OF OTHER OF ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Made of: Decon Procedure (By Numerical Content of the Content of t	#DIV/0! #DIV/0! #YPICAL AI 8260) (8010 8270D) (PA pH) (Condu COD) (TOC Total Cyanid Total Metals) Dissolved Metals VOC (Boein	#DIV/0! **ALYSIS AL* O) (8020) (N.* H) (NWTPH- ctivity) (TDS* C) (Total PO4* e) (WAD Cy.) (As) (Sb) (detals) (As) (Sb) g short list)	#DIV/0! #DIV/0! LOWED PE WTPH-G) (ILD) (NWTF S) (TSS) (E E) (Total Kie anide) (Free Ba) (Be) (Ca e) (Ba) (Be) (Ca e) (Ba) (Be) (Ca	#DIV/0! #BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	#DIV/0! #DIV/0! TYPE (Circle aportion of the content of the cont	#DIV/0! #DIV/0! #DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (O./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 ON ONE OF OTHER OF ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Made of: Decon Procedure (By Numerical Content of the Content of t	#DIV/0! #DIV/0! #YPICAL AI 8260) (8010 8270D) (PA pH) (Condu COD) (TOC Total Cyanid Total Metals) Dissolved Metals VOC (Boein	#DIV/0! **ALYSIS AL* O) (8020) (N.* H) (NWTPH- ctivity) (TDS* C) (Total PO4* e) (WAD Cy.) (As) (Sb) (detals) (As) (Sb) g short list)	#DIV/0! #DIV/0! LOWED PE WTPH-G) (ILD) (NWTF S) (TSS) (E E) (Total Kie anide) (Free Ba) (Be) (Ca e) (Ba) (Be) (Ca e) (Ba) (Be) (Ca	#DIV/0! #BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	#DIV/0! #DIV/0! TYPE (Circle aportion of the content of the cont	#DIV/0! #DIV/0! #DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (O./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 ON ONE OF OTHER OF ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Made of: Decon Procedure (By Numerical Content of the Sample Descript) Replicate 1	#DIV/0! #DIV/0! #YPICAL AI 8260) (8010 8270D) (PA pH) (Condu COD) (TOC Total Cyanid Total Metals) Dissolved Metals VOC (Boein	#DIV/0! **ALYSIS AL* O) (8020) (N.* H) (NWTPH- ctivity) (TDS* C) (Total PO4* e) (WAD Cy.) (As) (Sb) (detals) (As) (Sb) g short list)	#DIV/0! #DIV/0! LOWED PE WTPH-G) (ILD) (NWTF S) (TSS) (E E) (Total Kie anide) (Free Ba) (Be) (Ca e) (Ba) (Be) (Ca e) (Ba) (Be) (Ca	#DIV/0! #BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	#DIV/0! #DIV/0! TYPE (Circle aportion of the content of the cont	#DIV/0! #DIV/0! #DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (O./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 ON ONE OF OTHER OF ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Made of: Decon Procedure (By Numerical Content of the Sample Descript) Replicate 1	#DIV/0! #VOC (Boein, Methane Eth	#DIV/0! **ALYSIS AL* O) (8020) (N.* H) (NWTPH- ctivity) (TDS* C) (Total PO4* e) (WAD Cy.) (As) (Sb) (detals) (As) (Sb) g short list)	#DIV/0! #DIV/0! LOWED PE WTPH-G) (ILD) (NWTF S) (TSS) (E E) (Total Kie anide) (Free Ba) (Be) (Ca e) (Ba) (Be) (Ca e) (Ba) (Be) (Ca	#DIV/0! #BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	#DIV/0! #DIV/0! TYPE (Circle aportion of the content of the cont	#DIV/0! #DIV/0! #DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (O./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 ON ONE OF OTHER OF ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Made of: Decon Procedure (By Numerical Content of the Sample Descript) Replicate 1	#DIV/0! #DIV/0! FYPICAL A: 8260) (8010 8270D) (PA pH) (Condu COD) (TOtal Cyanid Total Metals) Dissolved M: VOC (Boein Methane Eth	#DIV/0! **ALYSIS AL* O) (8020) (N.* H) (NWTPH- ctivity) (TDS* C) (Total PO4* e) (WAD Cy.) (As) (Sb) (detals) (As) (Sb) g short list)	#DIV/0! #DIV/0! LOWED PE WTPH-G) (ILD) (NWTF S) (TSS) (E E) (Total Kie anide) (Free Ba) (Be) (Ca e) (Ba) (Be) (Ca e) (Ba) (Be) (Ca	#DIV/0! #BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	#DIV/0! #DIV/0! TYPE (Circle aportion of the content of the cont	#DIV/0! #DIV/0! #DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (O./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 ON ONE OF OTHER OF ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Made of: Decon Procedure (By Numerical Content of the Sample Descript) Replicate 1	#DIV/0! #DIV/0! FYPICAL A: 8260) (8010 8270D) (PA pH) (Condu COD) (TOtal Cyanid Total Metals) Dissolved M: VOC (Boein Methane Eth	#DIV/0! **ALYSIS AL* O) (8020) (N.* H) (NWTPH- ctivity) (TDS* C) (Total PO4* e) (WAD Cy.) (As) (Sb) (detals) (As) (Sb) g short list)	#DIV/0! #DIV/0! LOWED PE WTPH-G) (ILD) (NWTF S) (TSS) (E E) (Total Kie anide) (Free Ba) (Be) (Ca e) (Ba) (Be) (Ca e) (Ba) (Be) (Ca	#DIV/0! #BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	#DIV/0! #DIV/0! TYPE (Circle aportion of the content of the cont	#DIV/0! #DIV/0! #DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (O./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 ON ONE OF OTHER OF ONE OF O	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:		Aug-21			Date/Time:	8/ 11 /2021@	1150		
Sample Nur	nber:	RGW012S-	210811		Weather:	INSIDE			
Landau Rep	resentative:	BXM			·				
WATER LEV	VEL/WELL/PU	IRGE DATA							
Well Conditi		Secure (YES)	Damaged (N	(O)	Describe:	FLUSH		
DTW Before		4.82	Time:		Flow through ce		120011	GW Meter No.(c SI ODE 8
	Date/Time:		1123	End Purge:	•	8/ 11 /2021 @.	11/15	Gallons Purged:	S SLOTE 8
Purge water		8/11 /2021	55-gal Drum	Ě	Storage Tank	Ground	_	SITE TREATM	ENT SYSTEM
Turge water	disposed 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	. ,	dings within the fo		>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1126	22.9	909	0.23	6.16	-61.8		4.84		
1129	23.3	823	0.27	6.13	-65.4		4.84		
1132	23.3	793	0.29	6.11	-65.3		4.84		
	<u> </u>								
1135		759	0.3	6.08	-64.6				
1138	23.4	741	0.27	6.06	-62.9		. ———		
1141	23.4	716	0.26	6.04	-62.1				
1144	23.4	711	0.26	6.03	-62.6				
SAMPLE CO	DLLECTION D	OATA							
Sample Colle	ected With:		Bailer		Pump/Pump Type	DED. BLADDER	-		
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proce	dure:	Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	al Order)	Other							
Sample Desc	ription (color,	turbidity, odor	, sheen, etc.):	CLEAR, CO	LORLESS, NO C	DOR, NO 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	` ′	` ′		6.04	` '	(1110)	(11)	(1411)	Observations
1	23.4	710	0.26	6.04	-62.7				
2	23.4	710	0.26	6.04	-62.7				
3	23.4	709	0.25	6.04	-62.6				
4	23.4	709	0.26	6.04	-62.7				
Average:	23.4	710	0.26	6.04	-62.7				
OHANTITY	TVDICALA	NAI VCIC AI	I OWED DE	P ROTTI E	TVPF (Cinals as	oplicable or write	non-standard a	nalveie balana)	
3	1	0) (8020) (N			` .	pricable of write	non-stanuaru al	WA	OR 🗌
				•		(8141) (Oil & G	rease)	WA 🗆	OR 🗆
	· · · · ·					(HCO3/CO3) (C			
1	(COD) (TO	C) (Total PO	4) (Total Kie	dahl Nitrogen	n) (NH3) (NO3/	NO2)			
	(Total Cyanic	le) (WAD Cy	ranide) (Free	Cyanide)					
	1					(Pb) (Mg) (Mn) (
	1		(Ba) (Be) (G	Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (P	b) (Mg) (Mn) (Ni)	(Ag) (Se) (Tl) (V	(Zn) (Hg) (K) (Na) (Hardness) (Silie
	VOC (Boein								
	Methane Eth	nane Ethene A	cetylene						
	others								
	omero								
D I'									
Duplicate Sa	mple No(s):								
Comments:	-	CES OF PLA	STIC ON TIP	OF WATER	LEVEL METER				



Project Nam	ne:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 11 /2021@	1105		
Sample Nun	nber:	RGW014S-	210811		Weather:	INSIDE			
Landau Rep	resentative:	BXM							
WATER LEV	/EL/WELL/PU	RGE DATA							
Well Condition	on:	Secure (YES)	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	4.8	Time:	1040	Flow through cel	l vol.		GW Meter No.(s	SLOPE 8
Begin Purge:	Date/Time:	8/11 /2021	1041	End Purge:	Date/Time:	8/ 11 /2021 @	1103	Gallons Purged:	1
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)	•	(mV)	(NTU)	(ft)	Volume (gal)	Observations
	Purge Goal			ters for three +/- 0.1 units	e consecutive read +/- 10 mV	dings within the fo +/- 10%	ollowing limits < 0.3 ft	>/= 1 flow	
		+/- 3%				+/- 10%		through cell	
1044	22.5	592	0.36	6.23	-12.8		4.86		
1047	22.8	595	0.33	6.27	-20.5		4.94		
1050	22.9	597	0.32	6.28	-24.1		4.96		
1053	23.0	599	0.33	6.29	-26.8		4.98		
	- 1								
-						-			
									
	LLECTION D		D 1		D /D T	DED DI ADDED			
Sample Colle	cted With:		Bailer		_ ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	DED. BLADDER			
Made of:	_	Stainless Ste	_	PVC	Teflon	Polyethylene	Other	☐ Dedicated	
Decon Proced		Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	al ()vdov)								
		Other							
			, sheen, etc.):	CLEAR, CO	LORLESS, NO O	DOR, NO SHEEN	, SOME ORANG	GE SOLIDS	
Sample Descr	ription (color, t	turbidity, odor	· · · / <u>-</u>			· · · · · · · · · · · · · · · · · · ·			Comments/
			D.O. (mg/L)	CLEAR, CO	ORP (mV)	DOR, NO SHEEN Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	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)	рН 6.29	ORP (mV)	Turbidity	DTW	Ferrous iron	
Replicate 1 2	Temp (°F/°C) 23.0 23.1	Cond. (uS/cm) 600	D.O. (mg/L) 0.31 0.32	pH 6.29 6.29	ORP (mV) -27.6 -28.0	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3	Temp (°F/°C) 23.0 23.1 23.1	Cond. (uS/cm) 600 601	D.O. (mg/L) 0.31 0.32	pH 6.29 6.29 6.29	ORP (mV) -27.6 -28.0 -28.3	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3 4	Temp (°F/°C) 23.0 23.1 23.1 23.1	Cond. (uS/cm) 600 600 601	D.O. (mg/L) 0.31 0.32 0.33 0.30	pH 6.29 6.29 6.29 6.29	ORP (mV) -27.6 -28.0 -28.3 -28.7	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3	Temp (°F/°C) 23.0 23.1 23.1	Cond. (uS/cm) 600 601	D.O. (mg/L) 0.31 0.32	pH 6.29 6.29 6.29	ORP (mV) -27.6 -28.0 -28.3	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.0 23.1 23.1 23.1 23.1	Cond. (uS/cm) 600 600 601 601	D.O. (mg/L) 0.31 0.32 0.33 0.30 0.32	6.29 6.29 6.29 6.29 6.29	ORP (mV) -27.6 -28.0 -28.3 -28.7 -28.2	Turbidity	DTW (ft)	Ferrous iron (Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.0 23.1 23.1 23.1 23.1 (8260) (8010	Cond. (uS/cm) 600 601 601 NALYSIS AI	D.O. (mg/L) 0.31 0.32 0.33 0.30 0.32 LOWED PE	6.29 6.29 6.29 6.29 6.29 6.29 RR BOTTLE	ORP (mV) -27.6 -28.0 -28.3 -28.7 -28.2 TYPE (Circle approximately (BTEX)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II) nalysis below) WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.0 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010) (8270D) (PA	Cond. (uS/cm) 600 600 601 601 NALYSIS AI 0) (8020) (200)	D.O. (mg/L) 0.31 0.32 0.33 0.30 0.32 LOWED PE	6.29 6.29 6.29 6.29 6.29 RBOTTLE NWTPH-Gx)	ORP (mV) -27.6 -28.0 -28.3 -28.7 -28.2 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & G	DTW (ft)	Ferrous iron (Fe II) allysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 23.0 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 600 601 601 601 NALYSIS AI 0) (8020) (NAH) (NWTPH activity) (TD	D.O. (mg/L) 0.31 0.32 0.33 0.30 0.32 LOWED PE WYPH-G) (WTP S) (TSS) (B	6.29 6.29 6.29 6.29 6.29 R BOTTLE NWTPH-Gx) H-Dx) (TPHOD) (Turbic	ORP (mV) -27.6 -28.0 -28.3 -28.7 -28.2 TYPE (Circle approximately (BTEX) I-HCID) (8081) dity) (Alkalinity)	Turbidity (NTU) pplicable or write (8141) (Oil & G	DTW (ft)	Ferrous iron (Fe II) allysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.0 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction) (TOO	Cond. (uS/cm) 600 601 601 NALYSIS AI 0) (8020) (N CH) (NWTPH ctivity) (TD) C) (Total PO-	D.O. (mg/L) 0.31 0.32 0.33 0.30 0.32 LOWED PE WTPH-G) (M-D) (NWTP S) (TSS) (B 4) (Total Kie	6.29 6.29 6.29 6.29 6.29 6.29 R BOTTLE NWTPH-Gx) H-Dx) (TPHOD) (Turbio dahl Nitroger	ORP (mV) -27.6 -28.0 -28.3 -28.7 -28.2 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & G	DTW (ft)	Ferrous iron (Fe II) allysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 23.0 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (COD) (TOO (Total Cyanid	Cond. (uS/cm) 600 601 601 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO-	D.O. (mg/L) 0.31 0.32 0.33 0.30 0.32 LLOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free	6.29 6.29 6.29 6.29 6.29 6.29 RR BOTTLE NWTPH-Gx) H-Dx) (TPHOD) (Turbid dahl Nitrogen Cyanide)	ORP (mV) -27.6 -28.0 -28.3 -28.7 -28.2 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (O	DTW (ft) non-standard and arecase) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 23.0 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 600 601 601 NALYSIS AI (D) (8020) (NAH) (NWTPI netivity) (TD (C) (Total PO- e) (WAD Cy () (As) (Sb) (D.O. (mg/L) 0.31 0.32 0.33 0.30 0.32 LOWED PE NWTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.29 6.29 6.29 6.29 6.29 RR BOTTLE NWTPH-GX) H-DX) (TPHOD) (Turbic dahl Nitrogen Cyanide)	ORP (mV) -27.6 -28.0 -28.3 -28.7 -28.2 TYPE (Circle approximately (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WING WING WING WING WING WING WING WING	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 23.0 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M.	Cond. (uS/cm) 600 600 601 601 NALYSIS AI (US/CM) (US/CM) 601 (US/CM) 602 (US/CM) 603 (US/CM) 604 (US/CM) 605 (US/CM) 606 (US/CM) 607 (US/CM) 608 (US/CM) 609 (US/C	D.O. (mg/L) 0.31 0.32 0.33 0.30 0.32 LOWED PE NWTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.29 6.29 6.29 6.29 6.29 RR BOTTLE NWTPH-GX) H-DX) (TPHOD) (Turbic dahl Nitrogen Cyanide)	ORP (mV) -27.6 -28.0 -28.3 -28.7 -28.2 TYPE (Circle approximately (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WING WING WING WING WING WING WING WING	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 23.0 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 600 600 601 601 NALYSIS AI (US/CM) (US/CM) 601 (US/CM) 602 (US/CM) 603 (US/CM) 604 (US/CM) 605 (US/CM) 606 (US/CM) 607 (US/CM) 608 (US/CM) 609 (US/C	D.O. (mg/L) 0.31 0.32 0.33 0.30 0.32 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.29 6.29 6.29 6.29 6.29 RR BOTTLE NWTPH-GX) H-DX) (TPHOD) (Turbic dahl Nitrogen Cyanide)	ORP (mV) -27.6 -28.0 -28.3 -28.7 -28.2 TYPE (Circle approximately (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WING WING WING WING WING WING WING WING	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 23.0 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 600 601 601 601 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- e) (WAD Cy 0) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.31 0.32 0.33 0.30 0.32 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.29 6.29 6.29 6.29 6.29 RR BOTTLE NWTPH-GX) H-DX) (TPHOD) (Turbic dahl Nitrogen Cyanide)	ORP (mV) -27.6 -28.0 -28.3 -28.7 -28.2 TYPE (Circle approximately (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WING WING WING WING WING WING WING WING	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 23.0 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 600 601 601 601 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- e) (WAD Cy 0) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.31 0.32 0.33 0.30 0.32 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.29 6.29 6.29 6.29 6.29 RR BOTTLE NWTPH-GX) H-DX) (TPHOD) (Turbic dahl Nitrogen Cyanide)	ORP (mV) -27.6 -28.0 -28.3 -28.7 -28.2 TYPE (Circle approximately (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WING WING WING WING WING WING WING WING	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 23.0 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 600 601 601 601 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- e) (WAD Cy 0) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.31 0.32 0.33 0.30 0.32 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.29 6.29 6.29 6.29 6.29 RR BOTTLE NWTPH-GX) H-DX) (TPHOD) (Turbic dahl Nitrogen Cyanide)	ORP (mV) -27.6 -28.0 -28.3 -28.7 -28.2 TYPE (Circle approximately (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WING WING WING WING WING WING WING WING	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 23.0 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 600 600 601 601 NALYSIS AI D) (8020) (NAH) (NWTPI netivity) (TD C) (Total PO- e) (WAD Cy o) (As) (Sb) (etals) (As) (Si g short list) nane Ethene A	D.O. (mg/L) 0.31 0.32 0.33 0.30 0.32 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca cetylene	6.29 6.29 6.29 6.29 6.29 RR BOTTLE NWTPH-GX) H-DX) (TPHOD) (Turbic dahl Nitrogen Cyanide)	ORP (mV) -27.6 -28.0 -28.3 -28.7 -28.2 TYPE (Circle approximately (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WING WING WING WING WING WING WING WING	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3 Duplicate Sar	Temp (°F/°C) 23.0 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 600 600 601 601 NALYSIS AI D) (8020) (NAH) (NWTPI netivity) (TD C) (Total PO- e) (WAD Cy o) (As) (Sb) (etals) (As) (Si g short list) nane Ethene A	D.O. (mg/L) 0.31 0.32 0.33 0.30 0.32 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.29 6.29 6.29 6.29 6.29 RR BOTTLE NWTPH-GX) H-DX) (TPHOD) (Turbic dahl Nitrogen Cyanide)	ORP (mV) -27.6 -28.0 -28.3 -28.7 -28.2 TYPE (Circle approximately (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WING WING WING WING WING WING WING WING	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 23.0 23.1 23.1 23.1 23.1 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 600 600 601 601 NALYSIS AI D) (8020) (NAH) (NWTPI netivity) (TD C) (Total PO- e) (WAD Cy o) (As) (Sb) (etals) (As) (Si g short list) nane Ethene A	D.O. (mg/L) 0.31 0.32 0.33 0.30 0.32 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca cetylene	6.29 6.29 6.29 6.29 6.29 RR BOTTLE NWTPH-GX) H-DX) (TPHOD) (Turbic dahl Nitrogen Cyanide)	ORP (mV) -27.6 -28.0 -28.3 -28.7 -28.2 TYPE (Circle approximately (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G. (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (Ni) (Oil NO3/CO3) (Oil NO3/CO3)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WING WING WING WING WING WING WING WING	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:		Aug-21			Date/Time:	8/ 11 /2021@	1300		
Sample Num	ıber:	RGW031S-	210811		Weather:	SUNNY 70'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 I	Purging (ft)	5.21	Time:		Flow through ce	ll vol.		GW Meter No.(s	SLOPE 2
Begin Purge:		8/ 11 /2021	1234	End Purge:	_	8/ 11/2021@	1257	Gallons Purged:	0.25
Purge water di			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATMI	
r argo mater 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
	` /	` /		ters for three	` '	dings within the fo	` '	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1237	21.5	492	0.37	6.25	-18.4		5.21		
1240	22.2	510	0.35	6.29	-36.0		5.21		
1243	22.4	516	0.36	6.22	-45.6		5.21		
1246	22.3	517	0.39	6.30	-51.3		5.21		
1249	22.2	517	0.42	6.29	-55.6		5.21		
1252	22.3	518	0.46	6.29	-59.9				
1254	22.3	518	0.50	6.29	-61.6				
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		1					
	i Oruer)	II II Other							
	· ·	-	, sheen, etc.):	NO COLOR	, LOW TURB, N	O ODOR, NO SHE	EN		
	· ·	-	, sheen, etc.):	NO COLOR	, LOW TURB, N	O ODOR, NO SHE	EN		
	iption (color, t	turbidity, odor	D.O.	NO COLOR	ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descri	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		
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.27	ORP (mV)	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 21.9 22.0 22.0	Cond. (uS/cm) 518 518	D.O. (mg/L) 0.48 0.49	pH 6.27 6.27 6.26	ORP (mV) -61.9 -61.9	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 21.9 22.0 22.0	Cond. (uS/cm) 518 518 518	D.O. (mg/L) 0.48 0.49 0.48	pH 6.27 6.27 6.26 6.26	ORP (mV) -61.9 -61.9 -62.2	Turbidity (NTU)	DTW		
Replicate 1 2 3	Temp (°F/°C) 21.9 22.0 22.0	Cond. (uS/cm) 518 518	D.O. (mg/L) 0.48 0.49	pH 6.27 6.27 6.26	ORP (mV) -61.9 -61.9	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.9 22.0 22.0 22.0	Cond. (uS/cm) 518 518 518 518	D.O. (mg/L) 0.48 0.49 0.48 0.48	6.27 6.27 6.26 6.26 6.27	ORP (mV) -61.9 -61.9 -62.2 -62.0	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.9 22.0 22.0 22.0 22.0 TYPICAL A (8260) (8010	Cond. (uS/cm) 518 518 518 518 518 0) (8020) (N	D.O. (mg/L) 0.48 0.49 0.48 0.48 0.48 LOWED PE	6.27 6.27 6.26 6.26 6.27 8R BOTTLE NWTPH-GX	ORP (mV) -61.9 -61.9 -62.2 -62.0 TYPE (Circle ap	Turbidity (NTU) #DIV/0! oplicable or write	DTW (ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.9 22.0 22.0 22.0 TYPICAL A (8260) (8010) (8270) (PAF	Cond. (uS/cm) 518 518 518 518 518 518 0) (8020) (NH) (NWTPH-	D.O. (mg/L) 0.48 0.49 0.48 0.48 0.48 LOWED PE	6.27 6.27 6.26 6.26 6.27 CR BOTTLE NWTPH-Gx,	ORP (mV) -61.9 -61.9 -62.2 -62.0 TYPE (Circle aport (BTEX)) HCID) (8081) (#DIV/0! pplicable or write (8141) (Oil & Gre	DTW (ft) non-standard an	(Fe II) nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 21.9 22.0 22.0 22.0 22.0 TYPICAL A (8260) (8010 (8270) (PAE (pH) (Condu	Cond. (uS/cm) 518 518 518 518 518 0) (8020) (NOTPH-activity) (TDS	D.O. (mg/L) 0.48 0.49 0.48 0.48 0.48 CLOWED PERMYPH-G) (MOTPH-G) (NWTPH-G) (MOTPH-G) (MOTP	6.27 6.27 6.26 6.26 6.27 CR BOTTLE NWTPH-GX 1-DX) (TPH-10D) (Turbic	ORP (mV) -61.9 -61.9 -62.2 -62.0 TYPE (Circle ap (BTEX)) HCID) (8081) (dity) (Alkalinity)	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Gree) (HCO3/CO3) (6	DTW (ft) non-standard an	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.9 22.0 22.0 22.0 22.0 (8260) (8010) (8270) (PAF(pH) (Conduction)	Cond. (uS/cm) 518 518 518 518 518 0) (8020) (North-Helicity) (TD: Column (Total PO-	D.O. (mg/L) 0.48 0.49 0.48 0.48 0.48 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B	6.27 6.27 6.26 6.26 6.26 6.27 R BOTTLE NWTPH-Gx -Dx) (TPH-DD) (Turbio dahl Nitroger	ORP (mV) -61.9 -61.9 -62.2 -62.0 TYPE (Circle aport (BTEX)) HCID) (8081) (#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Gree) (HCO3/CO3) (6	DTW (ft) non-standard an	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 21.9 22.0 22.0 22.0 22.0 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid	Cond. (uS/cm) 518 518 518 518 518 (uS/cm) 518 518 518 (uS/cm) 518 518 518 (uS/cm) 518 518 518 518 518 518 518 51	D.O. (mg/L) 0.48 0.49 0.48 0.48 0.48 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie anide) (Free	6.27 6.27 6.26 6.26 6.27 CR BOTTLE NWTPH-GX DD) (TUrbic dahl Nitroger Cyanide)	ORP (mV) -61.9 -61.9 -62.2 -62.0 TYPE (Circle ap (BTEX)) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Green (HCO3/CO3) (CO3)	DTW (ft) non-standard an ase) 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 5	Temp (°F/°C) 21.9 22.0 22.0 22.0 22.0 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Conduction (COD) (Total Cyanid) (Total Metals)	Cond. (uS/cm) 518 518 518 518 518 0) (8020) (Note the content of the conten	D.O. (mg/L) 0.48 0.49 0.48 0.48 0.48 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca	6.27 6.26 6.26 6.27 6.27 6.28 6.27 6.29 6.20 6.27 6.20 6.27 6.21 6.27 6.27 6.28 6.27 6.28 6.27 6.29 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20	ORP (mV) -61.9 -61.9 -62.2 -62.0 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) 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 5	Temp (°F/°C) 21.9 22.0 22.0 22.0 22.0 TYPICAL A (8260) (8010 (8270) (PAE (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved Metals)	Cond. (uS/cm) 518 518 518 518 518 NALYSIS AI 0) (8020) (N I) (NWTPH- lectivity) (TDS C) (Total PO4 e) (WAD Cy c) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.48 0.49 0.48 0.48 0.48 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca	6.27 6.26 6.26 6.27 6.27 6.28 6.27 6.29 6.20 6.27 6.20 6.27 6.21 6.27 6.27 6.28 6.27 6.28 6.27 6.29 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20	ORP (mV) -61.9 -61.9 -62.2 -62.0 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) 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 5	Temp (°F/°C) 21.9 22.0 22.0 22.0 22.0 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 518 518 518 518 518 NALYSIS AI 0) (8020) (N I) (NWTPH- lectivity) (TDS C) (Total PO4 e) (WAD Cy c) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.48 0.49 0.48 0.48 0.48 LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B d) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.27 6.26 6.26 6.27 6.27 6.28 6.27 6.29 6.20 6.27 6.20 6.27 6.21 6.27 6.27 6.28 6.27 6.29 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20	ORP (mV) -61.9 -61.9 -62.2 -62.0 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) 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 5	Temp (°F/°C) 21.9 22.0 22.0 22.0 22.0 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 518 518 518 518 518 NALYSIS AI () (8020) (N () (NWTPH- () (Total PO- () (WAD Cy () (As) (Sb) (() (etals) (As) (Sb () g short list)	D.O. (mg/L) 0.48 0.49 0.48 0.48 0.48 LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B d) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.27 6.26 6.26 6.27 6.27 6.28 6.27 6.29 6.20 6.27 6.20 6.27 6.21 6.27 6.27 6.28 6.27 6.29 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20	ORP (mV) -61.9 -61.9 -62.2 -62.0 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) 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 5	Temp (°F/°C) 21.9 22.0 22.0 22.0 22.0 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 518 518 518 518 518 NALYSIS AI () (8020) (N () (NWTPH- () (Total PO- () (WAD Cy () (As) (Sb) (() (etals) (As) (Sb () g short list)	D.O. (mg/L) 0.48 0.49 0.48 0.48 0.48 LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B d) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.27 6.26 6.26 6.27 6.27 6.28 6.27 6.29 6.20 6.27 6.20 6.27 6.21 6.27 6.27 6.28 6.27 6.29 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20	ORP (mV) -61.9 -61.9 -62.2 -62.0 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) 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 5	Temp (°F/°C) 21.9 22.0 22.0 22.0 22.0 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 518 518 518 518 518 NALYSIS AI () (8020) (NI) (NWTPH-Cactivity) (TDS) (C) (Total PO-Ce) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.48 0.49 0.48 0.48 0.48 LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B d) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.27 6.26 6.26 6.27 6.27 6.28 6.27 6.29 6.20 6.27 6.20 6.27 6.21 6.27 6.27 6.28 6.27 6.29 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.27 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20	ORP (mV) -61.9 -61.9 -62.2 -62.0 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) 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 5	Temp (°F/°C) 21.9 22.0 22.0 22.0 22.0 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 518 518 518 518 518 NALYSIS AI O) (8020) (NI) (NWTPH- lectivity) (TDS (C) (Total POC) (WAD Cy (Yang) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb) (anne Ethene Aco	D.O. (mg/L) 0.48 0.49 0.48 0.48 0.48 LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca cetylene	pH 6.27 6.26 6.26 6.27 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co) Ca) (Cd) (Co)	ORP (mV) -61.9 -61.9 -62.2 -62.0 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe) (Cr) (Cu) (Fe) (P	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (non-standard and asse) 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 5	Temp (°F/°C) 21.9 22.0 22.0 22.0 22.0 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 518 518 518 518 518 NALYSIS AI O) (8020) (NI) (NWTPH- lectivity) (TDS (C) (Total POC) (WAD Cy (Yang) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb) (anne Ethene Aco	D.O. (mg/L) 0.48 0.49 0.48 0.48 0.48 LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B d) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.27 6.26 6.26 6.27 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co) Ca) (Cd) (Co)	ORP (mV) -61.9 -61.9 -62.2 -62.0 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) 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 5	Temp (°F/°C) 21.9 22.0 22.0 22.0 22.0 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 518 518 518 518 518 NALYSIS AI O) (8020) (NI) (NWTPH- lectivity) (TDS (C) (Total POC) (WAD Cy (Yang) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb) (anne Ethene Aco	D.O. (mg/L) 0.48 0.49 0.48 0.48 0.48 LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca cetylene	pH 6.27 6.26 6.26 6.27 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co) Ca) (Cd) (Co)	ORP (mV) -61.9 -61.9 -62.2 -62.0 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe) (Cr) (Cu) (Fe) (P	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (non-standard and asse) 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 Nam	ie:	Boeing Ren	ton		Project Numbe	er:	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 11 /2021@	1220		
Sample Nun	nber:	RGW033S-	210811		Weather:	SUNNY 70'S			
Landau Rep	resentative:	AHA			•				
WATER LEV	/EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES)	Damaged (N	O)	Describe:	FLUSHMOUN	Т	
DTW Before		5.31	Time:		Flow through ce			GW Meter No.(s	SLOPE 2
	Date/Time:		1155	End Purge:	-	8/ 11/2021@	. 1217	Gallons Purged:	0.25
Purge water d			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	•
8	•	<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
	, ,	` /		ters for three	` '	dings within the fo	` '	>/= 1 flow	0.0001.000000
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1158	22.2	541	0.41	6.14	-37.2		5.34		
1201	23.2	537	0.46	6.16	-43.2		5.31		
1204	23.4	535	0.46	6.16	-46.3		5.31		
1207	23.6	529	0.54	6.16	-51.5		5.31		
1210	23.6	524	0.61	6.16	-52.4		5.31		
1213		519	0.67	6.13	-53.7				
							-		
1215	23.6	518	0.72	6.14	-53.8		-		
A. 1 (D. D. C.)									
SAMPLE CO Sample Colle			Bailer		Pump/Pump Type	DI ADDED			
Made of:	cted with.	Stainless Stee	_	PVC	Teflon	Polyethylene	Other	Dedicated	
			=				<u> </u> Ошег	Dedicated	
Decon Proced		Alconox Was	sn 📋	Tap Rinse	DI Water	Dedicated			
(By Numerica	ŕ	-	1						
Sample Desci				NOTOTION	IOW TUDD N	O ODOD NO SHE	EN		
	(,	turbidity, odor	, sneen, etc.):	NO COLOR	, LOW TURB , N	O ODOR, NO SHE	EEN		
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate	Temp	Cond.	D.O.		ORP	Turbidity	DTW		
•	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW		
1	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.11	ORP (mV) -53.3	Turbidity	DTW		
1 2 3	Temp (°F/°C) 23.7 23.6 23.7	Cond. (uS/cm) 517 517	D.O. (mg/L) 0.75 0.72	6.11 6.10 6.10	ORP (mV) -53.3 -53.3	Turbidity	DTW		
1 2 3 4	Temp (°F/°C) 23.7 23.6 23.7 23.7	Cond. (uS/cm) 517 517 517	D.O. (mg/L) 0.75 0.72 0.70	pH 6.11 6.10 6.09	ORP (mV) -53.3 -53.3 -53.2	Turbidity (NTU)	DTW		
1 2 3	Temp (°F/°C) 23.7 23.6 23.7 23.7 23.7	Cond. (uS/cm) 517 517 517 517	D.O. (mg/L) 0.75 0.72 0.70 0.70	6.11 6.10 6.10 6.09 6.10	ORP (mV) -53.3 -53.3 -53.2 -53.2	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
1 2 3 4 Average:	Temp (°F/°C) 23.7 23.6 23.7 23.7 23.7 TYPICAL A	Cond. (uS/cm) 517 517 517 517 517 517	D.O. (mg/L) 0.75 0.72 0.70 0.70 0.72	pH 6.11 6.10 6.09 6.10 CR BOTTLE	ORP (mV) -53.3 -53.3 -53.2 -53.3 TYPE (Circle a)	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
1 2 3 4 Average:	Temp (°F/°C) 23.7 23.6 23.7 23.7 23.7 TYPICAL A (8260) (8016	Cond. (uS/cm) 517 517 517 517 517 NALYSIS AL 0) (8020) (N	D.O. (mg/L) 0.75 0.72 0.70 0.70 0.72 LOWED PE	6.11 6.10 6.09 6.10 CR BOTTLE NWTPH-GX)	ORP (mV) -53.3 -53.3 -53.2 -53.3 TYPE (Circle approximate of the company of	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	Observations OR
1 2 3 4 Average:	Temp (°F/°C) 23.7 23.6 23.7 23.7 23.7 23.7 23.7 (8260) (8010) (8270) (PAF	Cond. (uS/cm) 517 517 517 517 517 0) (8020) (NH) (NWTPH-I	D.O. (mg/L) 0.75 0.72 0.70 0.70 0.72 LOWED PERMYPH-G) (DD) (NWTPH	6.11 6.10 6.10 6.09 6.10 CR BOTTLE NWTPH-Gx)	ORP (mV) -53.3 -53.3 -53.2 -53.3 TYPE (Circle approximate of the company of	#DIV/0! pplicable or write (8141) (Oil & Gre	DTW (ft)	(Fe II) malysis below) WA WA WA	Observations
1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 23.7 23.6 23.7 23.7 23.7 23.7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu	Cond. (uS/cm) 517 517 517 517 517 517 NALYSIS AL 0) (8020) (N d) (NWTPH-I	D.O. (mg/L) 0.75 0.72 0.70 0.70 0.72 LLOWED PERWITPH-G) (NWTPH-S) (TSS) (ESS) (ESS)	6.11 6.10 6.09 6.10 CR BOTTLE (NWTPH-Gx) (-Dx) (TPH-GOD) (Turbic	ORP (mV) -53.3 -53.3 -53.2 -53.3 TYPE (Circle ap (BTEX) HCID) (8081) (dity) (Alkalinity)	#DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (6	DTW (ft)	(Fe II) malysis below) WA WA WA	Observations OR
1 2 3 4 Average:	Temp (°F/°C) 23.7 23.6 23.7 23.7 23.7 23.7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Conduction) (COD) (TOO	Cond. (uS/cm) 517 517 517 517 517 517 NALYSIS AL 0) (8020) (N d) (NWTPH-I	D.O. (mg/L) 0.75 0.72 0.70 0.70 0.72 LOWED PERMYPH-G) (D) (NWTPH-S) (TSS) (EB) (Total Kie	6.11 6.10 6.09 6.10 CR BOTTLE (NWTPH-Gx) (-Dx) (TPH-ISOD) (Turbid dahl Nitrogen	ORP (mV) -53.3 -53.3 -53.2 -53.3 TYPE (Circle approximate of the company of	#DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (6	DTW (ft)	(Fe II) malysis below) WA WA WA	Observations OR
1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 23.7 23.6 23.7 23.7 23.7 TYPICAL A (8260) (8016) (8270) (PAH (pH) (Conduction) (COD) (Too	Cond. (uS/cm) 517 517 517 517 517 NALYSIS AL 0) (8020) (N H) (NWTPH-lectivity) (TDS	D.O. (mg/L) 0.75 0.72 0.70 0.70 0.72 LOWED PERWIPH-G) (D) (NWTPH-S) (TSS) (ED) (Total Kie anide) (Free	6.11 6.10 6.09 6.10 CR BOTTLE NWTPH-Gx) (I-Dx) (TPH-ISOD) (Turbied dahl Nitrogen Cyanide)	ORP (mV) -53.3 -53.3 -53.2 -53.3 TYPE (Circle ap (BTEX) HCID) (8081) (Mits) (Alkalinity) (Alkalinity) (Mits) (NO3)	#DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (6	DTW (ft) non-standard an ase) CI) (SO4) (NC	malysis below) WA WA WA WO	Observations OR OR OR
1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 23.7 23.6 23.7 23.7 23.7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 517 517 517 517 517 NALYSIS AL 0) (8020) (N H) (NWTPH-lactivity) (TDS C) (Total PO4 le) (WAD Cy 1) (As) (Sb) (D.O. (mg/L) 0.75 0.72 0.70 0.70 0.72 LOWED PE WTPH-G) (MWTPH-G) (MWTPH	6.11 6.10 6.09 6.10 CR BOTTLE (NWTPH-GX) (-DX) (TPH-GOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -53.3 -53.3 -53.2 -53.3 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (0/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 23.7 23.6 23.7 23.7 23.7 23.7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Too (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 517 517 517 517 517 NALYSIS AI 0) (8020) (N H) (NWTPH-lactivity) (TDS C) (Total PO4 le) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.75 0.72 0.70 0.70 0.72 LOWED PERWIPH-G) (Composite of the composite of	6.11 6.10 6.09 6.10 CR BOTTLE (NWTPH-GX) (-DX) (TPH-GOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -53.3 -53.3 -53.2 -53.3 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (0/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 23.7 23.6 23.7 23.7 23.7 23.7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Too (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 517 517 517 517 517 NALYSIS AL 0) (8020) (N H) (NWTPH-Intrivity) (TDS C) (Total PO4 de) (WAD Cy de) (As) (Sb) (detals) (As) (Sb) (Second Conditions)	D.O. (mg/L) 0.75 0.72 0.70 0.70 0.72 LOWED PERWIPH-G) (Composite of the composite of	6.11 6.10 6.09 6.10 CR BOTTLE (NWTPH-GX) (-DX) (TPH-GOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -53.3 -53.3 -53.2 -53.3 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (0/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 23.7 23.6 23.7 23.7 23.7 23.7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 517 517 517 517 517 NALYSIS AI 0) (8020) (N H) (NWTPH-lactivity) (TDS C) (Total PO4 le) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.75 0.72 0.70 0.70 0.72 LOWED PERWIPH-G) (Composite of the composite of	6.11 6.10 6.09 6.10 CR BOTTLE (NWTPH-GX) (-DX) (TPH-GOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -53.3 -53.3 -53.2 -53.3 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (0/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 23.7 23.6 23.7 23.7 23.7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 517 517 517 517 517 NALYSIS AI 0) (8020) (N H) (NWTPH-lactivity) (TDS C) (Total PO4 le) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.75 0.72 0.70 0.70 0.72 LOWED PERWIPH-G) (Composite of the composite of	6.11 6.10 6.09 6.10 CR BOTTLE (NWTPH-GX) (-DX) (TPH-GOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -53.3 -53.3 -53.2 -53.3 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (0/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR
1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 23.7 23.6 23.7 23.7 23.7 23.7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 517 517 517 517 517 NALYSIS AI 0) (8020) (N H) (NWTPH-lactivity) (TDS C) (Total PO4 le) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.75 0.72 0.70 0.70 0.72 LOWED PERWIPH-G) (Composite of the composite of	6.11 6.10 6.09 6.10 CR BOTTLE (NWTPH-GX) (-DX) (TPH-GOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -53.3 -53.3 -53.2 -53.3 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (0/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 23.7 23.6 23.7 23.7 23.7 TYPICAL A (8260) (8016) (8270) (PAF (pH) (Conda (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 517 517 517 517 517 NALYSIS AI 0) (8020) (N H) (NWTPH-lactivity) (TDS C) (Total PO4 le) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.75 0.72 0.70 0.70 0.72 LOWED PERWIPH-G) (Composite of the composite of	6.11 6.10 6.09 6.10 CR BOTTLE (NWTPH-GX) (-DX) (TPH-GOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -53.3 -53.3 -53.2 -53.3 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (0/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 23.7 23.6 23.7 23.7 23.7 TYPICAL A (8260) (8016) (8270) (PAF (pH) (Conda (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 517 517 517 517 517 NALYSIS AI 0) (8020) (N H) (NWTPH-lactivity) (TDS C) (Total PO4 le) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.75 0.72 0.70 0.70 0.72 LOWED PERWIPH-G) (Composite of the composite of	6.11 6.10 6.09 6.10 CR BOTTLE (NWTPH-GX) (-DX) (TPH-GOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -53.3 -53.3 -53.2 -53.3 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (0/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (H	Observations OR OR OR OR OR OR OR OR OR OR



Project Name	e:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 11 /2021@	1110		
Sample Num	nber:	RGW034S-	210811		Weather:	SUNNY 70'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)	5.42	Time:	1040	Flow through cel	ll vol.		GW Meter No.(s	SLOPE 2
Begin Purge:	Date/Time:	8/11 /2021	1043	End Purge:	Date/Time:	8/ 11/2021@	1106	Gallons Purged:	0.25
Purge water di	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)	pii	(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	
1046	23.6	327.3	0.29	6.36	-42.2		5.42		
1049	25.1	329.0	0.26	6.33	-54.7		5.41		
1052	25.9	329.5	0.27	6.35	-61.4		5.41		
1055	26.4	330.4	0.31	6.34	-64.8		5.41		
1058	26.7	330.6	0.29	6.34	-69.1				
1101				6.34	-71.1		· 		
	26.8	329.7	0.34						
1103	26.9	329.0	0.43	6.34	-72.1		· 		
SAMPLE CO			T		- (n				
Sample Collec	eted With:		Bailer		Pump/Pump Type	_			
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
	l Order)	Other							
	ŕ	-	, sheen, etc.):	NO COLOR	, LOW TURB, NO	O ODOR, NO SHE	EN		
Sample Descri	iption (color, t	-	, sheen, etc.):		, LOW TURB, NO		EN DTW	Ferrous iron	Comments/
	ŕ	turbidity, odor		NO COLOR		O ODOR, NO SHE Turbidity (NTU)		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) 26.9	Cond. (uS/cm) 329.0 328.9	D.O. (mg/L) 0.43	рН 6.34 6.34	ORP (mV) -72.3 -72.6	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 26.9 26.9	Cond. (uS/cm) 329.0 328.9	D.O. (mg/L) 0.43 0.40	pH 6.34 6.34 6.34	ORP (mV) -72.3 -72.6 -72.8	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 26.9 26.9 26.9	Cond. (uS/cm) 329.0 328.9 328.8 328.7	D.O. (mg/L) 0.43 0.40 0.39	pH 6.34 6.34 6.34 6.34	ORP (mV) -72.3 -72.6 -72.8 -72.9	Turbidity (NTU)	DTW		
Replicate 1 2 3	Temp (°F/°C) 26.9 26.9	Cond. (uS/cm) 329.0 328.9	D.O. (mg/L) 0.43 0.40	pH 6.34 6.34 6.34	ORP (mV) -72.3 -72.6 -72.8	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 26.9 26.9 26.9 26.9	Cond. (uS/cm) 329.0 328.9 328.7 328.9	D.O. (mg/L) 0.43 0.40 0.39 0.40	pH 6.34 6.34 6.34 6.34 6.34	ORP (mV) -72.3 -72.6 -72.8 -72.9	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 26.9 26.9 26.9 26.9 26.9 26.9 (8260) (8010	Cond. (uS/cm) 329.0 328.9 328.8 328.7 328.9 NALYSIS AI	D.O. (mg/L) 0.43 0.40 0.39 0.40 0.41 LOWED PE	6.34 6.34 6.34 6.34 6.34 8.R BOTTLE	ORP (mV) -72.3 -72.6 -72.8 -72.9 -72.7 TYPE (Circle aport) (BTEX)	Turbidity (NTU) #DIV/0! pplicable or write	DTW (ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 26.9 26.9 26.9 26.9 26.9 26.9 (8260) (8010 (8270) (PAF	Cond. (uS/cm) 329.0 328.9 328.8 328.7 328.9 NALYSIS AI (b) (8020) (NI (b) (NWTPH-	D.O. (mg/L) 0.43 0.40 0.39 0.40 0.41 LLOWED PE	6.34 6.34 6.34 6.34 6.34 R BOTTLE NWTPH-Gx) -Dx) (TPH-	ORP (mV) -72.3 -72.6 -72.8 -72.9 -72.7 TYPE (Circle aportion (Circle	#DIV/0! pplicable or write	DTW (ft) non-standard an	(Fe II) malysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 26.9 26.9 26.9 26.9 26.9 (8269) (8270) (PAH (pH) (Condu	Cond. (uS/cm) 329.0 328.9 328.8 328.7 328.9 NALYSIS AI 0) (8020) (N I) (NWTPH- lectivity) (TDS	D.O. (mg/L) 0.43 0.40 0.39 0.40 0.41 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B	6.34 6.34 6.34 6.34 6.34 R BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic	ORP (mV) -72.3 -72.6 -72.8 -72.9 -72.7 TYPE (Circle ap (BTEX) HCID) (8081) (dity) (Alkalinity)	#DIV/0! plicable or write 8141) (Oil & Green (HCO3/CO3) (6	DTW (ft) non-standard an	(Fe II) malysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 26.9 26.9 26.9 26.9 26.9 (826) (8270) (PAF- (pH) (Conduction) (TOC	Cond. (uS/cm) 329.0 328.9 328.8 328.7 328.9 NALYSIS AI (2) (8020) (NI) (NWTPH- detivity) (TD: (C) (Total PO-	D.O. (mg/L) 0.43 0.40 0.39 0.40 0.41 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie	6.34 6.34 6.34 6.34 6.34 6.34 R BOTTLE NWTPH-Gx) -Dx) (TPH-IDD) (Turbio dahl Nitroger	ORP (mV) -72.3 -72.6 -72.8 -72.9 -72.7 TYPE (Circle aportion (Circle	#DIV/0! plicable or write 8141) (Oil & Green (HCO3/CO3) (6	DTW (ft) non-standard an	(Fe II) malysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 26.9 26.9 26.9 26.9 (8260) (8010) (8270) (PAF (pH) (Condu (COD) (Total Cyanid	Cond. (uS/cm) 329.0 328.9 328.8 328.7 328.9 NALYSIS AI (D) (8020) (NOTPH- dictivity) (TDS (C) (Total PO- de) (WAD Cy	D.O. (mg/L) 0.43 0.40 0.39 0.40 0.41 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free	pH 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbio dahl Nitrogen Cyanide)	ORP (mV) -72.3 -72.6 -72.8 -72.9 -72.7 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 ONE OF THE CONTROL OF THE CON	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 26.9 26.9 26.9 26.9 26.9 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 329.0 328.9 328.8 328.7 328.9 NALYSIS AI (b) (8020) (NI) (NWTPH- (ctivity) (TDS) (C) (Total PO- (ctivity) (AS) (Sb) (D.O. (mg/L) 0.43 0.40 0.39 0.40 0.41 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -72.3 -72.6 -72.8 -72.9 -72.7 TYPE (Circle agorithm) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (On NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 26.9 26.9 26.9 26.9 26.9 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 329.0 328.9 328.8 328.7 328.9 NALYSIS AI O) (8020) (NI) (NWTPH- lectivity) (TDS C) (Total PO4- e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) (St	D.O. (mg/L) 0.43 0.40 0.39 0.40 0.41 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -72.3 -72.6 -72.8 -72.9 -72.7 TYPE (Circle agorithm) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (On NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 26.9 26.9 26.9 26.9 26.9 (8269) (8270) (PAF(pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved Me	Cond. (uS/cm) 329.0 328.9 328.8 328.7 328.9 NALYSIS AI O) (8020) (NI) (NWTPH- lectivity) (TDS C) (Total PO4- e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) (St	D.O. (mg/L) 0.43 0.40 0.39 0.40 0.41 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -72.3 -72.6 -72.8 -72.9 -72.7 TYPE (Circle agorithm) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (On NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 26.9 26.9 26.9 26.9 26.9 (8269) (8270) (PAF(pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved Me	Cond. (uS/cm) 329.0 328.9 328.8 328.7 328.9 NALYSIS AI () (8020) (N () (NWTPH- () (Total PO- () (WAD Cy () (As) (Sb) (() (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.43 0.40 0.39 0.40 0.41 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -72.3 -72.6 -72.8 -72.9 -72.7 TYPE (Circle agorithm) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (On NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 26.9 26.9 26.9 26.9 26.9 (8269) (8270) (PAF(pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved Me	Cond. (uS/cm) 329.0 328.9 328.8 328.7 328.9 NALYSIS AI () (8020) (N () (NWTPH- () (Total PO- () (WAD Cy () (As) (Sb) (() (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.43 0.40 0.39 0.40 0.41 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -72.3 -72.6 -72.8 -72.9 -72.7 TYPE (Circle agorithm) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (On NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 26.9 26.9 26.9 26.9 26.9 (8269) (8270) (PAF(pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved Me	Cond. (uS/cm) 329.0 328.9 328.8 328.7 328.9 NALYSIS AI () (8020) (N () (NWTPH- () (Total PO- () (WAD Cy () (As) (Sb) (() (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.43 0.40 0.39 0.40 0.41 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -72.3 -72.6 -72.8 -72.9 -72.7 TYPE (Circle agorithm) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (On NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 26.9 26.9 26.9 26.9 26.9 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 329.0 328.9 328.8 328.7 328.9 NALYSIS AI () (8020) (N () (NWTPH- () (Total PO- () (WAD Cy () (As) (Sb) (() (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.43 0.40 0.39 0.40 0.41 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -72.3 -72.6 -72.8 -72.9 -72.7 TYPE (Circle agorithm) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (On NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 26.9 26.9 26.9 26.9 26.9 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 329.0 328.9 328.8 328.7 328.9 NALYSIS AI () (8020) (N () (NWTPH- () (Total PO- () (WAD Cy () (As) (Sb) (() (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.43 0.40 0.39 0.40 0.41 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -72.3 -72.6 -72.8 -72.9 -72.7 TYPE (Circle agorithm) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (On NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 26.9 26.9 26.9 26.9 26.9 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 329.0 328.9 328.8 328.7 328.9 NALYSIS AI () (8020) (N () (NWTPH- () (Total PO- () (WAD Cy () (As) (Sb) (() (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.43 0.40 0.39 0.40 0.41 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-Gx) -Dx) (TPH-I OD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -72.3 -72.6 -72.8 -72.9 -72.7 TYPE (Circle agorithm) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Green (HCO3/CO3) (On NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	_
Event:		Aug-21			Date/Time:	8/ 11 /2021@	850		
Sample Nun	nber:	RGW143S-	210811		Weather:	SUNNY 70'S			
Landau Rep	resentative:	AHA			•				
WATER LEV	/EL/WELL/PU	JRGE DATA							
Well Condition		Secure (YES)	Damaged (N	O)	Describe:	FLUSHMOUN	Т	
DTW Before		5.64	Time:		Flow through cel		-	GW Meter No.(s SLOPE 2
	0 0 0	8/11 /2021	824	End Purge:	-	8/ 11/2021@	. 847	Gallons Purged:	0.25
Purge water of			55-gal Drum		Storage Tank	Ground		SITE TREATM	
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
	Purge Goa	ls: Stablizatio	n of Parame		consecutive rea	dings within the fo	ollowing limits	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
827	20.8	390.4	2.01	6.34	-18.1		5.65		
830	21.6	397.6	1.65	6.26	-28.5		5.65		
833	21.9	407.9	1.51	6.29	-29.1		5.65		
836	22.2	412.5	1.28	6.29	-28.2		5.65		
839		416.9	1.32	6.31	-28.4				
842		419.6	1.32	6.31	-29.0				
845	22.8	421.9	1.31	6.31	-30.8	-	-		
Sample Colle	LLECTION D		Bailer		D /D T	DI ADDER			
Made of:	cted with:	Stainless Ste	_	PVC	Pump/Pump Type Teflon	Polyethylene	Othor	Dedicated	
	⊟		=		₩		□ Other	Dedicated	
Decon Procee		Alconox Was	sh 📋	Tap Rinse	DI Water	Dedicated			
(By Numerica	· ·	Other	1 ()	NO COLOR	LOW TUDD N	ODOD NO CHE	EN COME DED	DADTICIH EC	
Sample Desc	ription (color,	turbiaity, odor	, sneen, etc.)	NO COLOR	, LOW TORB, NO	O ODOR, NO SHE	EN, SOME KED	PARTICULES	
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	22.8	422.0	1.33	6.31	-30.9				
2	22.8	422.0	1.31	6.31	-31.0				
3	22.8	422.3	1.29	6.31	-31.3				
4	22.8	422.6	1.30	6.31	-31.6				
	-					//D#1/01			-
Average:	22.8	422.2	1.31	6.31	-31.2	#DIV/0!			
F					<u> </u>	plicable or write	non-standard a		
5	` / `	0) (8020) (N		`				WA 🗆	OR 🗆
						8141) (Oil & Gre		WA 🗆	OR 🗆
1	u / (• • • • • • • • • • • • • • • • • • • •			aity) (Alkalinity) a) (NH3) (NO3/	(HCO3/CO3) (C	(SO4) (NC	(NO2) (F)	
•	· · · ·	le) (WAD Cy			.) (1113) (1133)	1102)			
	•	, ,	, ,	• /	(Cr) (Cu) (Fe)	(Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (H	g) (K) (Na)
	(Dissolved M	etals) (As) (Sb) (Ba) (Be) (Ca) (Cd) (Co)	(Cr) (Cu) (Fe) (P	b) (Mg) (Mn) (Ni)	(Ag) (Se) (Tl) (V	(Zn) (Hg) (K) (1	Na) (Hardness) (Silica
	VOC (Boein	g short list)							
	Methane Eth	nane Ethene A	cetylene						
ĺ									
	4								
	others								
Duplicate Sar									
Duplicate San									



Project Nam	ne:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/11 /2021@	1010		
Sample Nun	nber:	RGW147S-	210811		Weather:	SUNNY, 70S			
Landau Rep	resentative:	BXM			·				
WATER LEV	VEL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES)	Damaged (N	O)	Describe:	FLUSH		
DTW Before		4.5	Time:		Flow through cel		120011	GW Meter No.(s SI OPF 8
	Date/Time:		945	End Purge:	_	8/ 11 /2021 @	. 1007	Gallons Purged:	S SLOI E 6
Purge water of		8/ 11 /2021	55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	ENIT CVCTEM
r urge water e	iisposed to.	-	55-gai Diulii		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	. ,	dings within the fo	. ,	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
948	20.8	217.0	0.36	5.82	3.8		4.49		
951	21.8	198.4	0.42	5.89	-7.9		4.49		
954	22.3	183.3	0.42	5.91	-12.4		4.49		
957		172.3	0.38	5.89	-14.4				
1000	22.8	167.0	0.37	5.88	-15.8				
1003	22.9	162.1	0.37	5.87	-16.9				
1006	23.0	160.6	0.35	5.86	-17.7		· <u></u>		
SAMPLE CO	LLECTION D	OATA							
Sample Colle	ected With:		Bailer		Pump/Pump Type	DED. 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)	Other							
Sample Desc	ription (color,	turbidity odor	. sheen, etc.):	CLEAR CO	LORIESS NO O	DOD NO SHEEN	VEDV CLICIT	ri v eeeedvec	CENTE COME LIGHT
		turbiuity, odor	,, <u>-</u>	CLL/III, CO	LOKEESS, NO C	DOK, NO SHEEN	, VERT SLIGH	ILI EFFERVESC	ZENT, SOME LIGH
			· · · · · · · · · · · · · · · · · · ·					ILI EFFERVES	
Replicate	Temp	Cond.	D.O.	рН	ORP	Turbidity	DTW	Ferrous iron	Comments/
•	(°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)				
1	(°F/°C) 23.0	Cond. (uS/cm)	D.O. (mg/L)	рН 5.86	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
•	(°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
1	(°F/°C) 23.0	Cond. (uS/cm)	D.O. (mg/L)	рН 5.86	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
1 2	(°F/°C) 23.0 23.0	Cond. (uS/cm) 160.2	D.O. (mg/L) 0.37	pH 5.86 5.86	ORP (mV) -17.8 -17.9	Turbidity	DTW	Ferrous iron	Comments/
1 2 3	(°F/°C) 23.0 23.0 23.0	Cond. (uS/cm) 160.2 160.5	D.O. (mg/L) 0.37 0.36	pH 5.86 5.86 5.86	ORP (mV) -17.8 -17.9	Turbidity	DTW	Ferrous iron	Comments/
1 2 3 4 Average:	(°F/°C) 23.0 23.0 23.0 23.0 23.0	Cond. (uS/cm) 160.2 160.5 160.7 159.8 160.3	D.O. (mg/L) 0.37 0.36 0.35 0.37	pH 5.86 5.86 5.86 5.86 5.86	ORP (mV) -17.8 -17.9 -18.0 -17.9	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/
1 2 3 4 Average:	(°F/°C) 23.0 23.0 23.0 23.0 23.0 TYPICAL A	Cond. (uS/cm) 160.2 160.5 160.7 159.8 160.3	D.O. (mg/L) 0.37 0.36 0.35 0.37 0.36	5.86 5.86 5.86 5.86 5.86 5.86	ORP (mV) -17.8 -17.9 -18.0 -17.9 TYPE (Circle ap	Turbidity	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1 2 3 4 Average:	(°F/°C) 23.0 23.0 23.0 23.0 23.0 23.0 (8260) (8010	Cond. (uS/cm) 160.2 160.5 160.7 159.8 160.3 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.37 0.36 0.35 0.37 0.36 LOWED PERWYPH-G) (MATCH)	5.86 5.86 5.86 5.86 5.86 CR BOTTLE NWTPH-GX	ORP (mV) -17.8 -17.9 -18.0 -17.9 TYPE (Circle aport) (BTEX)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II) nalysis below) WA	Comments/
1 2 3 4 Average:	(°F/°C) 23.0 23.0 23.0 23.0 23.0 23.0 (8260) (8010 (8270D) (PA	Cond. (uS/cm) 160.2 160.5 160.7 159.8 160.3 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.37 0.36 0.35 0.37 0.36 LOWED PF	5.86 5.86 5.86 5.86 5.86 CR BOTTLE NWTPH-Gx)	ORP (mV) -17.8 -17.9 -18.0 -17.9 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II) malysis below) WA WA WA	Comments/ Observations
1 2 3 4 Average:	(°F/°C) 23.0 23.0 23.0 23.0 23.0 23.0 (8260) (8010 (8270D) (PA) (pH) (Condu	Cond. (uS/cm) 160.2 160.5 160.7 159.8 160.3 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TD:	D.O. (mg/L) 0.37 0.36 0.35 0.37 0.36 LOWED PERMYPH-G) (M-D) (NWTF	5.86 5.86 5.86 5.86 5.86 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-GOD) (Turbic	ORP (mV) -17.8 -17.9 -18.0 -17.9 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & G	DTW (ft)	Ferrous iron (Fe II) malysis below) WA WA WA	Comments/ Observations
1 2 3 4 Average: QUANTITY 3	(°F/°C) 23.0 23.0 23.0 23.0 23.0 23.0 (8260) (8010 (8270D) (PA (pH) (Conduction) (COD) (TOO	Cond. (uS/cm) 160.2 160.5 160.7 159.8 160.3 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TD:	D.O. (mg/L) 0.37 0.36 0.35 0.37 0.36 LOWED PERMYPH-G) (M-LO) (NWTPH-G) (NWTPH-G) (NWTPH-G) (TSS) (ES) (TSS) (ES) (Total Kie	5.86 5.86 5.86 5.86 5.86 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-BOD) (Turbio dahl Nitrogen	ORP (mV) -17.8 -17.9 -18.0 -17.9 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity)	Turbidity (NTU) pplicable or write (8141) (Oil & G	DTW (ft)	Ferrous iron (Fe II) malysis below) WA WA WA	Comments/ Observations
1 2 3 4 Average: QUANTITY 3	(°F/°C) 23.0 23.0 23.0 23.0 23.0 23.0 (8260) (8010 (8270D) (PA (PH) (Conduction (COD) (Tool (Total Cyanid	Cond. (uS/cm) 160.2 160.5 160.7 159.8 160.3 NALYSIS AI 0) (8020) (N AH) (NWTPH detivity) (TD: C) (Total PO- de) (WAD Cy	D.O. (mg/L) 0.37 0.36 0.35 0.37 0.36 LOWED PE WTPH-G) (NWTP S) (TSS) (E	5.86 5.86 5.86 5.86 5.86 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-GOD) (Turbic dahl Nitrogen Cyanide)	ORP (mV) -17.8 -17.9 -18.0 -17.9 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G	non-standard and rease)	Ferrous iron (Fe II) malysis below) WA WA WA O WA O O O O O O O O O O O O O O O O O O O	Comments/ Observations OR □ OR □
1 2 3 4 Average: QUANTITY 3	(°F/°C) 23.0 23.0 23.0 23.0 23.0 23.0 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanida (Total Metals) (Dissolved M	Cond. (uS/cm) 160.2 160.5 160.7 159.8 160.3 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TD: C) (Total PO- de) (WAD Cy) (As) (Sb) ((etals) (As) (Sb)	D.O. (mg/L) 0.37 0.36 0.35 0.37 0.36 LOWED PE WTPH-G) (NWTP S) (TSS) (E H) (Total Kie ranide) (Free Ba) (Be) (Ca	5.86 5.86 5.86 5.86 5.86 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-Gx) GDD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -17.8 -17.9 -18.0 -17.9 TYPE (Circle ago (BTEX) I-HCID) (8081) dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (Oil NO2)	non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA 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 Graph OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average: QUANTITY 3	(°F/°C) 23.0 23.0 23.0 23.0 23.0 23.0 (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanida (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 160.2 160.5 160.7 159.8 160.3 NALYSIS AI (0) (8020) (N AH) (NWTPI (activity) (TD: (C) (Total PO- (de) (WAD Cy (de) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.37 0.36 0.35 0.37 0.36 LOWED PERMYPH-G) (MI-D) (NWTF S) (TSS) (EMI-D) (Total Kiemanide) (Free Ba) (Be) (Canada) (Be) (Canada) (Be) (Canada) (Be) (Canada) (Be) (Canada) (Ba) (Be) (Canada) (Be) (Canada)	5.86 5.86 5.86 5.86 5.86 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-Gx) GDD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -17.8 -17.9 -18.0 -17.9 TYPE (Circle ago (BTEX) I-HCID) (8081) dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (Oil NO2)	non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA 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 Graph OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average: QUANTITY 3	(°F/°C) 23.0 23.0 23.0 23.0 23.0 23.0 (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanida (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 160.2 160.5 160.7 159.8 160.3 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TD: C) (Total PO- de) (WAD Cy) (As) (Sb) ((etals) (As) (Sb)	D.O. (mg/L) 0.37 0.36 0.35 0.37 0.36 LOWED PERMYPH-G) (MI-D) (NWTF S) (TSS) (EMI-D) (Total Kiemanide) (Free Ba) (Be) (Canada) (Be) (Canada) (Be) (Canada) (Be) (Canada) (Be) (Canada) (Ba) (Be) (Canada) (Be) (Canada)	5.86 5.86 5.86 5.86 5.86 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-Gx) GDD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -17.8 -17.9 -18.0 -17.9 TYPE (Circle ago (BTEX) I-HCID) (8081) dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (Oil NO2)	non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA 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 Graph OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average: QUANTITY 3	(°F/°C) 23.0 23.0 23.0 23.0 23.0 23.0 (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanida (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 160.2 160.5 160.7 159.8 160.3 NALYSIS AI (0) (8020) (N AH) (NWTPI (activity) (TD: (C) (Total PO- (de) (WAD Cy (de) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.37 0.36 0.35 0.37 0.36 LOWED PERMYPH-G) (MI-D) (NWTF S) (TSS) (EMI-D) (Total Kiemanide) (Free Ba) (Be) (Canada) (Be) (Canada) (Be) (Canada) (Be) (Canada) (Be) (Canada) (Ba) (Be) (Canada) (Be) (Canada)	5.86 5.86 5.86 5.86 5.86 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-Gx) GDD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -17.8 -17.9 -18.0 -17.9 TYPE (Circle ago (BTEX) I-HCID) (8081) dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (Oil NO2)	non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA 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 Graph OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average: QUANTITY 3	(°F/°C) 23.0 23.0 23.0 23.0 23.0 23.0 23.0 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 160.2 160.5 160.7 159.8 160.3 NALYSIS AI (0) (8020) (N AH) (NWTPI (activity) (TD: (C) (Total PO- (de) (WAD Cy (de) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.37 0.36 0.35 0.37 0.36 LOWED PERMYPH-G) (MI-D) (NWTF S) (TSS) (EMI-D) (Total Kiemanide) (Free Ba) (Be) (Canada) (Be) (Canada) (Be) (Canada) (Be) (Canada) (Be) (Canada) (Ba) (Be) (Canada) (Be) (Canada)	5.86 5.86 5.86 5.86 5.86 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-Gx) GDD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -17.8 -17.9 -18.0 -17.9 TYPE (Circle ago (BTEX) I-HCID) (8081) dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (Oil NO2)	non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA 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 □
1 2 3 4 Average: QUANTITY 3	(°F/°C) 23.0 23.0 23.0 23.0 23.0 23.0 (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanida (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 160.2 160.5 160.7 159.8 160.3 NALYSIS AI (0) (8020) (N AH) (NWTPI (activity) (TD: (C) (Total PO- (de) (WAD Cy (de) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.37 0.36 0.35 0.37 0.36 LOWED PERMYPH-G) (MI-D) (NWTF S) (TSS) (EMI-D) (Total Kiemanide) (Free Ba) (Be) (Canada) (Be) (Canada) (Be) (Canada) (Be) (Canada) (Be) (Canada) (Ba) (Be) (Canada) (Be) (Canada)	5.86 5.86 5.86 5.86 5.86 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-Gx) GDD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -17.8 -17.9 -18.0 -17.9 TYPE (Circle ago (BTEX) I-HCID) (8081) dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (Oil NO2)	non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA 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 Graph OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average:	(°F/°C) 23.0 23.0 23.0 23.0 23.0 23.0 23.0 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 160.2 160.5 160.7 159.8 160.3 NALYSIS AI (0) (8020) (N AH) (NWTPI (activity) (TD: (C) (Total PO- (de) (WAD Cy (de) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.37 0.36 0.35 0.37 0.36 LOWED PERMYPH-G) (MI-D) (NWTF S) (TSS) (EMI-D) (Total Kiemanide) (Free Ba) (Be) (Canada) (Be) (Canada) (Be) (Canada) (Be) (Canada) (Be) (Canada) (Ba) (Be) (Canada) (Be) (Canada)	5.86 5.86 5.86 5.86 5.86 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-Gx) GDD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -17.8 -17.9 -18.0 -17.9 TYPE (Circle ago (BTEX) I-HCID) (8081) dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (Oil NO2)	non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA 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 Graph OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average: QUANTITY 3	(°F/°C) 23.0 23.0 23.0 23.0 23.0 23.0 23.0 (8260) (8010 (8270D) (P4 (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 160.2 160.5 160.7 159.8 160.3 NALYSIS AI (0) (8020) (N AH) (NWTPI (activity) (TD: (C) (Total PO- (de) (WAD Cy) (As) (Sb) ((etals) (As) (Sb) (ag short list) (nane Ethene Activity)	D.O. (mg/L) 0.37 0.36 0.35 0.37 0.36 LOWED PERMYPH-G) (M-D) (NWTF S) (TSS) (EM-D) (Total Kiemanide) (Free Ba) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Be) (Canda) (pH 5.86 5.86 5.86 5.86 5.86 CR BOTTLE (NWTPH-Gx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co) Ca) (Cd) (Co)	ORP (mV) -17.8 -17.9 -18.0 -17.9 TYPE (Circle ago (BTEX) I-HCID) (8081) dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (Oil (MO2) (Pb) (Mg) (Mn) (Ni) (D) (Mg) (Mn) (Ni)	non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA 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 □



Project Nam	ne:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 11 /2021@	920		
Sample Nun	nber:	RGW150S-	210811		Weather:	SUNNY, 70S			
Landau Rep	resentative:	BXM/AHA							
WATER LEV	/EL/WELL/PU	IRGE DATA							
Well Condition	on:	Secure (YES)	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	4.91	Time:	853	Flow through ce	ll vol.		GW Meter No.(s	SLOPE 8
	Date/Time:	8/ 11 /2021	854	End Purge:	_	8/ 11 /2021 @	916	Gallons Purged:	1
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
	_					dings within the fo	~	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
857	19.4	329.7	0.4	6.26	-14.5		4.91		
900	20.6	385	0.43	6.44	-33		4.91		
903	21.1	400.6	0.47	6.47	-38.6		4.91		
906	21.3	411.2	0.45	6.49	-43.8				
909	21.3	415.8	0.45	6.5	-45.3				
	• •								
912	21.4	417.6	0.44	6.51	-45.5				
							. ———		
	LLECTION D		D !!						
Sample Colle	cted With:	_	Bailer	ш		DED. BLADDER		—	
Made of:		Stainless Ste		PVC	Teflon	Polyethylene	Other	☐ Dedicated	
Decon Proced		Alconox Wa	sh 🔲	Tap Rinse	DI Water	☐ Dedicated			
(By Numerica	,	Other		~~~~					
	,		, sheen, etc.):	CLEAR, CO	LORLESS, NO C	DOR, NO SHEEN	, SLIGHTLY EF	FERVESCENT, S	SOME LIGHT SOLIE
	,		, sheen, etc.):	CLEAR, CO	LORLESS, NO C	DOR, NO SHEEN Turbidity	, SLIGHTLY EF	FERVESCENT, S	Comments/
Sample Descr	ription (color,	turbidity, odor	· -						
Sample Descr	Temp	turbidity, odor	D.O.		ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Desci	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm) 418.3	D.O. (mg/L)	рН 6.51	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2	Temp (°F/°C) 21.5	Cond. (uS/cm) 418.3	D.O. (mg/L) 0.43 0.42	pH 6.51 6.51	ORP (mV) -45.4 -45.4	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3	Temp (°F/°C) 21.5 21.5	Cond. (uS/cm) 418.3 418.7	D.O. (mg/L) 0.43 0.42	6.51 6.51 6.51	ORP (mV) -45.4 -45.4 -45.3	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5	Cond. (uS/cm) 418.3 418.7 418.6 418.9	D.O. (mg/L) 0.43 0.42 0.44 0.43	6.51 6.51 6.51 6.52 6.5	ORP (mV) -45.4 -45.4 -45.3 -45.1 -45.3	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5	Cond. (uS/cm) 418.3 418.7 418.6 418.9 418.6	D.O. (mg/L) 0.43 0.42 0.44 0.43 0.4	6.51 6.51 6.51 6.52 6.5 R BOTTLE	ORP (mV) -45.4 -45.4 -45.3 -45.1 -45.3 TYPE (Circle ap	Turbidity	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 21.5 (8260) (8010	Cond. (uS/cm) 418.3 418.7 418.6 418.9 418.6 NALYSIS AI	D.O. (mg/L) 0.43 0.42 0.44 0.43 0.4 LLOWED PE	6.51 6.51 6.51 6.52 6.5 R BOTTLE NWTPH-GX	ORP (mV) -45.4 -45.4 -45.3 -45.1 -45.3 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 (8260) (8010) (8270D) (PA	Cond. (uS/cm) 418.3 418.7 418.6 418.9 418.6 NALYSIS AI (0) (8020) (N	D.O. (mg/L) 0.43 0.42 0.44 0.43 0.4 LLOWED PENWTPH-G) (M-D) (NWTP	6.51 6.51 6.52 6.5 CR BOTTLE NWTPH-Gx)	ORP (mV) -45.4 -45.4 -45.3 -45.1 -45.3 TYPE (Circle ap (BTEX)) I-HCID) (8081)	Turbidity (NTU)	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) 21.5 21.5 21.5 21.5 21.5 (8260) (8010 (8270D) (PA (pH) (Conduction)	Cond. (uS/cm) 418.3 418.7 418.6 418.9 418.6 NALYSIS AI (D) (8020) (N CH) (NWTPHetivity) (TD:	D.O. (mg/L) 0.43 0.42 0.44 0.43 0.4 LLOWED PE NWTPH-G) (H-D) (NWTP S) (TSS) (B	6.51 6.51 6.52 6.5 CR BOTTLE NWTPH-Gx) H-Dx) (TPH-GD) (Turbic	ORP (mV) -45.4 -45.4 -45.3 -45.1 -45.3 TYPE (Circle ap (BTEX)) I-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & G	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) 21.5 21.5 21.5 21.5 21.5 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Too	Cond. (uS/cm) 418.3 418.7 418.6 418.9 418.6 NALYSIS AI (D) (8020) (N AH) (NWTPH (D) (Total PO-2 (E) (WAD Cy	D.O. (mg/L) 0.43 0.42 0.44 0.43 0.4 LLOWED PE WTPH-G) (H-D) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free	6.51 6.51 6.52 6.5 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-GD) (Turbid dahl Nitrogen Cyanide)	ORP (mV) -45.4 -45.4 -45.3 -45.1 -45.3 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity)	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (6	DTW (ft) non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ONLY WA	Comments/ Observations OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 418.3 418.7 418.6 418.9 418.6 NALYSIS AI (D) (8020) (N AH) (NWTPH (Detivity) (TD: (C) (Total PO- (e) (WAD Cy (d) (AS) (Sb) (D.O. (mg/L) 0.43 0.42 0.44 0.43 0.4 LLOWED PE NWTPH-G) (M-D) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.51 6.51 6.52 6.5 CR BOTTLE NWTPH-GX) H-DX) (TPH-GOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -45.4 -45.3 -45.1 -45.3 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (61) (NO2) (Pb) (Mg) (Mn) (non-standard an rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 418.3 418.7 418.6 418.9 418.6 NALYSIS AI O) (8020) (N CH) (NWTPH lectivity) (TDS C) (Total PO-2 e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (Sb)	D.O. (mg/L) 0.43 0.42 0.44 0.43 0.4 LLOWED PE NWTPH-G) (M-D) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.51 6.51 6.52 6.5 CR BOTTLE NWTPH-GX) H-DX) (TPH-GOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -45.4 -45.3 -45.1 -45.3 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (61) (NO2) (Pb) (Mg) (Mn) (non-standard an rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF O	Comments/ Observations OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 21.6 21.5 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 418.3 418.7 418.6 418.9 418.6 NALYSIS AI O) (8020) (N AH) (NWTPHetrivity) (TD: C) (Total PO- e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.43 0.42 0.44 0.43 0.4 LLOWED PENWTPH-G) (H-D) (NWTPH-G) (NWTPH-G) (H-D) (H-D) (NWTPH-G) (H-D) (NWTPH-G) (H-D) (NWTPH-G) (H-D) (H-D) (NWTPH-G) (H-D) (H-D	pH 6.51 6.51 6.52 6.5 CR BOTTLE NWTPH-GX) H-DX) (TPH-GOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -45.4 -45.3 -45.1 -45.3 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (61) (NO2) (Pb) (Mg) (Mn) (non-standard an rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 21.6 21.5 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 418.3 418.7 418.6 418.9 418.6 NALYSIS AI O) (8020) (N CH) (NWTPH lectivity) (TDS C) (Total PO-2 e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (Sb)	D.O. (mg/L) 0.43 0.42 0.44 0.43 0.4 LLOWED PENWTPH-G) (H-D) (NWTPH-G) (NWTPH-G) (H-D) (H-D) (NWTPH-G) (H-D) (NWTPH-G) (H-D) (NWTPH-G) (H-D) (H-D) (NWTPH-G) (H-D) (H-D	pH 6.51 6.51 6.52 6.5 CR BOTTLE NWTPH-GX) H-DX) (TPH-GOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -45.4 -45.3 -45.1 -45.3 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (61) (NO2) (Pb) (Mg) (Mn) (non-standard an rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 21.6 21.5 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 418.3 418.7 418.6 418.9 418.6 NALYSIS AI O) (8020) (N AH) (NWTPHetrivity) (TD: C) (Total PO- e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.43 0.42 0.44 0.43 0.4 LLOWED PENWTPH-G) (H-D) (NWTPH-G) (NWTPH-G) (H-D) (H-D) (NWTPH-G) (H-D) (NWTPH-G) (H-D) (NWTPH-G) (H-D) (H-D) (NWTPH-G) (H-D) (H-D	pH 6.51 6.51 6.52 6.5 CR BOTTLE NWTPH-GX) H-DX) (TPH-GOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -45.4 -45.4 -45.3 -45.1 -45.3 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (61) (NO2) (Pb) (Mg) (Mn) (non-standard an rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 21.6 21.5 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 418.3 418.7 418.6 418.9 418.6 NALYSIS AI O) (8020) (N AH) (NWTPHetrivity) (TD: C) (Total PO- e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.43 0.42 0.44 0.43 0.4 LLOWED PENWTPH-G) (H-D) (NWTPH-G) (NWTPH-G) (H-D) (H-D) (NWTPH-G) (H-D) (NWTPH-G) (H-D) (NWTPH-G) (H-D) (H-D) (NWTPH-G) (H-D) (H-D	pH 6.51 6.51 6.52 6.5 CR BOTTLE NWTPH-GX) H-DX) (TPH-GOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -45.4 -45.4 -45.3 -45.1 -45.3 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (61) (NO2) (Pb) (Mg) (Mn) (non-standard an rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 418.3 418.7 418.6 418.9 418.6 NALYSIS AI O) (8020) (N AH) (NWTPHetrivity) (TD: C) (Total PO- e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.43 0.42 0.44 0.43 0.4 LLOWED PENWTPH-G) (H-D) (NWTPH-G) (NWTPH-G) (H-D) (H-D) (NWTPH-G) (H-D) (NWTPH-G) (H-D) (NWTPH-G) (H-D) (H-D) (NWTPH-G) (H-D) (H-D	pH 6.51 6.51 6.52 6.5 CR BOTTLE NWTPH-GX) H-DX) (TPH-GOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -45.4 -45.4 -45.3 -45.1 -45.3 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (61) (NO2) (Pb) (Mg) (Mn) (non-standard an rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF 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) 21.5 21.5 21.5 21.5 21.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 418.3 418.7 418.6 418.9 418.6 NALYSIS AI O) (8020) (N AH) (NWTPHetrivity) (TD: C) (Total PO- e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.43 0.42 0.44 0.43 0.4 LLOWED PENWTPH-G) (H-D) (NWTPH-G) (NWTPH-G) (H-D) (H-D) (NWTPH-G) (H-D) (NWTPH-G) (H-D) (NWTPH-G) (H-D) (H-D) (NWTPH-G) (H-D) (H-D	pH 6.51 6.51 6.52 6.5 CR BOTTLE NWTPH-GX) H-DX) (TPH-GOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -45.4 -45.4 -45.3 -45.1 -45.3 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (61) (NO2) (Pb) (Mg) (Mn) (non-standard an rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 21.5 21.5 21.5 21.5 21.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 418.3 418.7 418.6 418.9 418.6 NALYSIS AI O) (8020) (N AH) (NWTPHetrivity) (TD: C) (Total PO- e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.43 0.42 0.44 0.43 0.4 LLOWED PENWTPH-G) (H-D) (NWTPH-G) (NWTPH-G) (H-D) (H-D) (NWTPH-G) (H-D) (NWTPH-G) (H-D) (NWTPH-G) (H-D) (H-D) (NWTPH-G) (H-D) (H-D	pH 6.51 6.51 6.52 6.5 CR BOTTLE NWTPH-GX) H-DX) (TPH-GOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -45.4 -45.4 -45.3 -45.1 -45.3 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (61) (NO2) (Pb) (Mg) (Mn) (non-standard an rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF O	Comments/ 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:		Aug-21			Date/Time:	8/ 10 /2021@	1255		
Sample Num	nber:	RGW152S-	210810		Weather:	SUNNY 70'S			
Landau Repr	resentative:	AHA							
WATER LEV	EL/WELL/PU	IRGE DATA							
Well Condition	on:	Secure (YES)	Damaged (N	O)	Describe:	FLUSHMOUN	Т	
DTW Before	Purging (ft)	9.95	Time:		Flow through ce	ll vol.		GW Meter No.(s	SLOPE 2
Begin Purge:			1228	End Purge:	_	8/ 10 /2021 @	1250	Gallons Purged:	0.25
Purge water d			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATMI	
8	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
	Purge Goal	,	on of Parame		` '	dings within the fo	` '	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1231	22.3	228.8	1.07	5.89	15.9		10.57		
1234	22.7	224.4	0.75	5.90	11.1		10.57		
1237	22.8	211.5	0.54	5.83	15.1		10.95		
1240	22.9	206.9	0.51	5.81	17.1		10.97		
	· ———								
1243	23.0	207.3	0.48	5.80	17.5		11.19		
1246	23.1	209.3	0.49	5.80	17.1		11.19		
1248	23.1	212.1	0.48	5.80	16.2				
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	101)								
(By Numerica	il Order)	Other							
		-	, sheen, etc.):	NO COLOR	, MED-HIGH TU	RB,NO ODOR, NO) SHEEN		
Sample Descr	ription (color, t	turbidity, odor	· -						
	Temp	turbidity, odor	D.O.	NO COLOR	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) 212.8	D.O. (mg/L)	рН 5.80	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C) 23.1 23.1	Cond. (uS/cm) 212.8 213.5	D.O. (mg/L) 0.49	pH 5.80 5.80	ORP (mV) 15.7	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm) 212.8	D.O. (mg/L)	рН 5.80	ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 23.1 23.1	Cond. (uS/cm) 212.8 213.5	D.O. (mg/L) 0.49	pH 5.80 5.80	ORP (mV) 15.7	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 23.1 23.1 23.1	Cond. (uS/cm) 212.8 213.5 213.7	D.O. (mg/L) 0.49 0.47	pH 5.80 5.80 5.80	ORP (mV) 15.7 15.3 15.2	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1	Cond. (uS/cm) 212.8 213.5 213.7 214.4 213.6	D.O. (mg/L) 0.49 0.47 0.51 0.49	5.80 5.80 5.80 5.80 5.80	ORP (mV) 15.7 15.3 15.2 14.9 15.3	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.1 23.1 23.1 23.1 TYPICAL A	Cond. (uS/cm) 212.8 213.5 213.7 214.4 213.6	D.O. (mg/L) 0.49 0.47 0.51 0.49 0.49	5.80 5.80 5.80 5.80 5.80 5.80	ORP (mV) 15.7 15.3 15.2 14.9 15.3 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1 (8260-SIM)	Cond. (uS/cm) 212.8 213.5 213.7 214.4 213.6 NALYSIS AI (8010) (8020)	D.O. (mg/L) 0.49 0.47 0.51 0.49 0.49 0.49 0.49 0.49 0.49 0.10WED PE	5.80 5.80 5.80 5.80 5.80 6.80 6.80 6.80 6.80 6.80 6.80 6.80 6	ORP (mV) 15.7 15.3 15.2 14.9 15.3 TYPE (Circle and H-Gx) (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.1 23.1 23.1 23.1 TYPICAL A (8260-SIM) (8270D) (PA	Cond. (uS/cm) 212.8 213.5 213.7 214.4 213.6 NALYSIS AI (8010) (8020)	D.O. (mg/L) 0.49 0.47 0.51 0.49 0.49 0.49 (mg/L) 0.49 0.49 (mg/L)	5.80 5.80 5.80 5.80 5.80 6.R BOTTLE G) (NWTPF	ORP (mV) 15.7 15.3 15.2 14.9 15.3 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081)	Turbidity (NTU) #DIV/0! oplicable or write	DTW (ft) non-standard and arease)	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.1 23.1 23.1 23.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 212.8 213.5 213.7 214.4 213.6 NALYSIS AI (8010) (8020) (AH) (NWTPHetivity) (TDS)	D.O. (mg/L) 0.49 0.47 0.51 0.49 0.49 CLOWED PE 0) (NWTPH-H-D) (NWTPH-H-	5.80 5.80 5.80 5.80 5.80 6.R BOTTLE G) (NWTPFPH-Dx) (TPFBOD) (Turbio	ORP (mV) 15.7 15.3 15.2 14.9 15.3 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081)	#DIV/0! #DIV/0! pplicable 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: QUANTITY 3	Temp (°F/°C) 23.1 23.1 23.1 23.1 23.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction) (TOC (Total Cyanid)	Cond. (uS/cm) 212.8 213.5 213.7 214.4 213.6 NALYSIS AI (8010) (8020 AH) (NWTPH (Control of the control o	D.O. (mg/L) 0.49 0.47 0.51 0.49 0.49 LOWED PE D) (NWTPH-H-D)	5.80 5.80 5.80 5.80 5.80 6.R BOTTLE G) (NWTPF H-Dx) (TPF HOD) (Turbic tal Kiedahl N Cyanide)	ORP (mV) 15.7 15.3 15.2 14.9 15.3 TYPE (Circle all H-Gx) (BTEX) H-HCID) (8081) HIGHORD (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G. (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) 23.1 23.1 23.1 23.1 23.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction) (TOC (Total Cyanid)	Cond. (uS/cm) 212.8 213.5 213.7 214.4 213.6 NALYSIS AI (8010) (8020 AH) (NWTPH (Control of the control o	D.O. (mg/L) 0.49 0.47 0.51 0.49 0.49 LOWED PE D) (NWTPH-H-D)	5.80 5.80 5.80 5.80 5.80 6.R BOTTLE G) (NWTPF H-Dx) (TPF HOD) (Turbic tal Kiedahl N Cyanide)	ORP (mV) 15.7 15.3 15.2 14.9 15.3 TYPE (Circle all H-Gx) (BTEX) H-HCID) (8081) HIGHORD (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6	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) 23.1 23.1 23.1 23.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M.	Cond. (uS/cm) 212.8 213.5 213.7 214.4 213.6 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (C5310C) (Tos (c) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.49 0.47 0.51 0.49 0.49 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towanide) (Free Ba) (Ba) (Ca)	5.80 5.80 5.80 5.80 5.80 6.R BOTTLE G) (NWTPFH-Dx) (TPFGOD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 15.7 15.3 15.2 14.9 15.3 TYPE (Circle ald General Control of the C	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (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) 23.1 23.1 23.1 23.1 23.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 212.8 213.5 213.7 214.4 213.6 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (Tos (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (for each of the conditions)	D.O. (mg/L) 0.49 0.47 0.51 0.49 0.49 LOWED PE D) (NWTPH-I-D)	5.80 5.80 5.80 5.80 5.80 6.R BOTTLE G) (NWTPFH-Dx) (TPFGOD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 15.7 15.3 15.2 14.9 15.3 TYPE (Circle ald General Control of the C	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (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) 23.1 23.1 23.1 23.1 23.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 212.8 213.5 213.7 214.4 213.6 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (C5310C) (Tos (c) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.49 0.47 0.51 0.49 0.49 LOWED PE D) (NWTPH-I-D)	5.80 5.80 5.80 5.80 5.80 6.R BOTTLE G) (NWTPFH-Dx) (TPFGOD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 15.7 15.3 15.2 14.9 15.3 TYPE (Circle ald General Control of the C	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (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) 23.1 23.1 23.1 23.1 23.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 212.8 213.5 213.7 214.4 213.6 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (Tos (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (for each of the conditions)	D.O. (mg/L) 0.49 0.47 0.51 0.49 0.49 LOWED PE D) (NWTPH-I-D)	5.80 5.80 5.80 5.80 5.80 6.R BOTTLE G) (NWTPFH-Dx) (TPFGOD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 15.7 15.3 15.2 14.9 15.3 TYPE (Circle ald General Control of the C	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (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) 23.1 23.1 23.1 23.1 23.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 212.8 213.5 213.7 214.4 213.6 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (Tos (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (for each of the conditions)	D.O. (mg/L) 0.49 0.47 0.51 0.49 0.49 LOWED PE D) (NWTPH-I-D)	5.80 5.80 5.80 5.80 5.80 6.R BOTTLE G) (NWTPFH-Dx) (TPFGOD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 15.7 15.3 15.2 14.9 15.3 TYPE (Circle ald General Control of the C	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (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) 23.1 23.1 23.1 23.1 23.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 212.8 213.5 213.7 214.4 213.6 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (Tos (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (for each of the conditions)	D.O. (mg/L) 0.49 0.47 0.51 0.49 0.49 LOWED PE D) (NWTPH-I-D)	5.80 5.80 5.80 5.80 5.80 6.R BOTTLE G) (NWTPFH-Dx) (TPFGOD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) 15.7 15.3 15.2 14.9 15.3 TYPE (Circle ald General Control of the C	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (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) 23.1 23.1 23.1 23.1 23.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 212.8 213.5 213.7 214.4 213.6 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (Toc (e) (WAD Cy (for e) (WAD Cy (for e) (Sb) (for etals) (As) (for etals) (D.O. (mg/L) 0.49 0.47 0.51 0.49 0.49 LOWED PE D) (NWTPH-I-D)	5.80 5.80 5.80 5.80 5.80 5.80 6.R BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co) Ca) (Cd) (Co)	ORP (mV) 15.7 15.3 15.2 14.9 15.3 TYPE (Circle ald General Control of the C	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (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) 23.1 23.1 23.1 23.1 23.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved Methane Ether) Others mple No(s):	Cond. (uS/cm) 212.8 213.5 213.7 214.4 213.6 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (C5310C) (Toc (e) (WAD Cy (f) (As) (Sb) (getals) (As) (Sb) (getals) (As) (Sb) (anne Ethene Acc (Duplicate Lo	D.O. (mg/L) 0.49 0.47 0.51 0.49 0.49 LOWED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towanide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	5.80 5.80 5.80 5.80 5.80 5.80 6.R BOTTLE G) (NWTPHH-Dx) (TPHGOD) (Turbic tal Kiedahl N Cyanide) (a) (Cd) (Co) (Ca) (Cd) (Co) (Ca) (Cd) (Co)	ORP (mV) 15.7 15.3 15.2 14.9 15.3 TYPE (Circle ald General Control of the C	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (G.) (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 Name	e:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 10 /2021@	1035		
Sample Num	nber:	RGW153S-	210810		Weather:	SUNNY 60'S			
Landau Repr	resentative:	AHA							
WATER LEV	EL/WELL/PU	RGE DATA							
Well Conditio		Secure (YES)	Damaged (N	(O)	Describe:	FLUSHMOUN	Т	
DTW Before I	Purging (ft)	10.47	Time:		Flow through ce	ll vol		GW Meter No.(s	SLOPE 2
Begin Purge:			1008	End Purge:	C	8/ 10 /2021 @	. 1030	Gallons Purged:	0.25
Purge water di			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATME	
r argo mater 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
	` /	,		ters for three	` /	dings within the fo	` '	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1011	21.3	256.5	1.45	6.42	-34.9		10.53		
1014	21.7	267.9	1.18	6.41	-45.9		10.48		
1017	22.0	271.1	0.96	6.38	-50.1		10.48		
1020	22.1		0.99				-		
		273.4		6.37	-50.6	-	10.48	-	
1023	22.4	274.8	0.82	6.36	-53.8		10.51	•	
1026	22.6	277.2	0.76	6.38	-56.2		10.51		
1028	22.7	278.6	0.74	6.39	-57.3		10.51		
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	10.1.	□ < 1							
(By Trumerica)	i Oraer)	Other							
. •	· ·	-	, sheen, etc.):	LIGHT YEL	LOW TINT, LOV	V-MED TURB, NO	ODOR, NO SH	EEN WHITE PAF	RTICULATES
Sample Descri	iption (color, t	turbidity, odor	· <u>-</u>						
	iption (color, t	curbidity, odor	D.O.	LIGHT YEL	ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descri	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)				
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm) 279.0	D.O. (mg/L)	рН 6.39	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Sample Descri	Temp (°F/°C) 22.7	Cond. (uS/cm) 279.0	D.O. (mg/L) 0.73	pH 6.39 6.39	ORP (mV) -57.4 -57.3	Turbidity	DTW	Ferrous iron	Comments/
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm) 279.0	D.O. (mg/L)	рН 6.39	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2	Temp (°F/°C) 22.7	Cond. (uS/cm) 279.0	D.O. (mg/L) 0.73	pH 6.39 6.39	ORP (mV) -57.4 -57.3	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3	Temp (°F/°C) 22.7 22.7	Cond. (uS/cm) 279.0 279.1 279.3	D.O. (mg/L) 0.73 0.73	pH 6.39 6.39 6.39	ORP (mV) -57.4 -57.3 -57.2	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.7 22.7 22.7 22.7 22.7	Cond. (uS/cm) 279.0 279.1 279.3 279.7 279.3	D.O. (mg/L) 0.73 0.73 0.71 0.70	pH 6.39 6.39 6.39 6.39 6.39	ORP (mV) -57.4 -57.3 -57.2 -57.2	Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.7 22.7 22.7 22.7 22.7 TYPICAL A	Cond. (uS/cm) 279.0 279.1 279.3 279.7 279.3	D.O. (mg/L) 0.73 0.73 0.71 0.70 0.72	6.39 6.39 6.39 6.39 6.39 6.39	ORP (mV) -57.4 -57.3 -57.2 -57.2 -57.3 TYPE (Circle a)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.7 22.7 22.7 22.7 22.7 22.7 TYPICAL A	Cond. (uS/cm) 279.0 279.1 279.3 279.7 279.3 NALYSIS AI (8010) (8020	D.O. (mg/L) 0.73 0.73 0.71 0.70 0.72 LOWED PE 0) (NWTPH-	6.39 6.39 6.39 6.39 6.39 6.39 6.39 6.39	ORP (mV) -57.4 -57.3 -57.2 -57.2 -57.3 TYPE (Circle appl-Gx) (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.7 22.7 22.7 22.7 22.7 TYPICAL A (8260-SIM) (8270D) (PA	Cond. (uS/cm) 279.0 279.1 279.3 279.7 279.3 NALYSIS AI (8010) (8020	D.O. (mg/L) 0.73 0.73 0.71 0.70 0.72 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D)	6.39 6.39 6.39 6.39 6.39 6.39 GR BOTTLE G) (NWTPF	ORP (mV) -57.4 -57.3 -57.2 -57.2 -57.3 TYPE (Circle ap H-Gx) (BTEX) H-HCID) (8081)	Turbidity (NTU) #DIV/0! oplicable or write	DTW (ft) non-standard and rease)	Ferrous iron (Fe II) analysis below) WA WA WA	Comments/ Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.7 22.7 22.7 22.7 22.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 279.0 279.1 279.3 279.7 279.3 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS)	D.O. (mg/L) 0.73 0.73 0.71 0.70 0.72 LOWED PE 0) (NWTPH-H-D) (NWTP	6.39 6.39 6.39 6.39 6.39 6.39 6.7 6.39 6.39 6.39 6.39 6.39 6.39 6.39 6.39	ORP (mV) -57.4 -57.3 -57.2 -57.2 -57.3 TYPE (Circle ap H-Gx) (BTEX) H-HCID) (8081)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (6	DTW (ft) non-standard and rease)	Ferrous iron (Fe II) analysis below) WA WA WA	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 22.7 22.7 22.7 22.7 22.7 22.7 (8260-SIM) (8270D) (PA (pH) (Conduction (COD) (TOC) (Total Cyanid	Cond. (uS/cm) 279.0 279.1 279.3 279.7 279.3 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (To e) (WAD Cy	D.O. (mg/L) 0.73 0.73 0.71 0.70 0.72 LOWED PE D) (NWTPH-H-D)	6.39 6.39 6.39 6.39 6.39 6.39 CR BOTTLE G) (NWTPF H-Dx) (TPF HOD) (Turbic tal Kiedahl N Cyanide)	ORP (mV) -57.4 -57.3 -57.2 -57.2 -57.3 TYPE (Circle all H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) ((NO3/NO2)	DTW (ft) non-standard and arease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WA WO WO WO WO WO WO WO WO WO WO	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 22.7 22.7 22.7 22.7 22.7 22.7 (8260-SIM) (8270D) (PA (pH) (Conduction (COD) (TOC) (Total Cyanid	Cond. (uS/cm) 279.0 279.1 279.3 279.7 279.3 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (To e) (WAD Cy	D.O. (mg/L) 0.73 0.73 0.71 0.70 0.72 LOWED PE D) (NWTPH-H-D)	6.39 6.39 6.39 6.39 6.39 6.39 CR BOTTLE G) (NWTPF H-Dx) (TPF HOD) (Turbic tal Kiedahl N Cyanide)	ORP (mV) -57.4 -57.3 -57.2 -57.2 -57.3 TYPE (Circle all H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (6	DTW (ft) non-standard and arease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WA WO WO WO WO WO WO WO WO WO WO	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 22.7 22.7 22.7 22.7 22.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M.	Cond. (uS/cm) 279.0 279.1 279.3 279.7 279.3 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS c5310C) (Tos e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.73 0.73 0.71 0.70 0.72 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To anide) (Free Ba) (Be) (Ca	6.39 6.39 6.39 6.39 6.39 6.39 6.10 6.39 6.39 6.39 6.39 6.39 6.39 6.39 6.39	ORP (mV) -57.4 -57.3 -57.2 -57.3 TYPE (Circle ald General Head) (BTEX) Head Head (BTEX) H	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) ((NO3/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WO	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 22.7 22.7 22.7 22.7 22.7 22.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 279.0 279.1 279.3 279.7 279.3 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS) (25310C) (To- (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.73 0.73 0.71 0.70 0.72 LOWED PE D) (NWTPH-I-D)	6.39 6.39 6.39 6.39 6.39 6.39 6.10 6.39 6.39 6.39 6.39 6.39 6.39 6.39 6.39	ORP (mV) -57.4 -57.3 -57.2 -57.3 TYPE (Circle ald General Head) (BTEX) Head Head (BTEX) H	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) ((NO3/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WO	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 22.7 22.7 22.7 22.7 22.7 22.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 279.0 279.1 279.3 279.7 279.3 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS c5310C) (Tos e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.73 0.73 0.71 0.70 0.72 LOWED PE D) (NWTPH-I-D)	6.39 6.39 6.39 6.39 6.39 6.39 6.10 6.39 6.39 6.39 6.39 6.39 6.39 6.39 6.39	ORP (mV) -57.4 -57.3 -57.2 -57.3 TYPE (Circle ald General Head) (BTEX) Head Head (BTEX) H	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) ((NO3/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WO	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 22.7 22.7 22.7 22.7 22.7 22.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 279.0 279.1 279.3 279.7 279.3 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (To- (e) (WAD Cy- (b) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L) 0.73 0.73 0.71 0.70 0.72 LOWED PE D) (NWTPH-I-D)	6.39 6.39 6.39 6.39 6.39 6.39 6.10 6.39 6.39 6.39 6.39 6.39 6.39 6.39 6.39	ORP (mV) -57.4 -57.3 -57.2 -57.3 TYPE (Circle ald General Head) (BTEX) Head Head (BTEX) H	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) ((NO3/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WO	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 22.7 22.7 22.7 22.7 22.7 22.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 279.0 279.1 279.3 279.7 279.3 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (To- (e) (WAD Cy- (b) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L) 0.73 0.73 0.71 0.70 0.72 LOWED PE D) (NWTPH-I-D)	6.39 6.39 6.39 6.39 6.39 6.39 6.10 6.39 6.39 6.39 6.39 6.39 6.39 6.39 6.39	ORP (mV) -57.4 -57.3 -57.2 -57.3 TYPE (Circle ald General Head) (BTEX) Head Head (BTEX) H	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) ((NO3/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WO	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 22.7 22.7 22.7 22.7 22.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 279.0 279.1 279.3 279.7 279.3 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (To- (e) (WAD Cy- (b) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L) 0.73 0.73 0.71 0.70 0.72 LOWED PE D) (NWTPH-I-D)	6.39 6.39 6.39 6.39 6.39 6.39 6.10 6.39 6.39 6.39 6.39 6.39 6.39 6.39 6.39	ORP (mV) -57.4 -57.3 -57.2 -57.3 TYPE (Circle ald General Head) (BTEX) Head Head (BTEX) H	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) ((NO3/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WO	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 22.7 22.7 22.7 22.7 22.7 22.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 279.0 279.1 279.3 279.7 279.3 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (To- (e) (WAD Cy- (b) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L) 0.73 0.73 0.71 0.70 0.72 LOWED PE D) (NWTPH-I-D)	6.39 6.39 6.39 6.39 6.39 6.39 6.10 6.39 6.39 6.39 6.39 6.39 6.39 6.39 6.39	ORP (mV) -57.4 -57.3 -57.2 -57.3 TYPE (Circle ald General Head) (BTEX) Head Head (BTEX) H	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) ((NO3/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WO	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 22.7 22.7 22.7 22.7 22.7 22.7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 279.0 279.1 279.3 279.7 279.3 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (To- (e) (WAD Cy- (b) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L) 0.73 0.73 0.71 0.70 0.72 LOWED PE D) (NWTPH-I-D)	6.39 6.39 6.39 6.39 6.39 6.39 6.10 6.39 6.39 6.39 6.39 6.39 6.39 6.39 6.39	ORP (mV) -57.4 -57.3 -57.2 -57.3 TYPE (Circle ald General Head) (BTEX) Head Head (BTEX) H	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) ((NO3/NO2) (Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WO	Comments/ 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:		Aug-21			Date/Time:	8/ 10 /2021@	1409		
Sample Nur	nber:	RGW172S-	210810		Weather:	SUNNY, 80S			
Landau Rep	resentative:	BXM			·				
WATERIEV	VEL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES)	Damaged (N	O)	Describe:	FLUSH		
DTW Before		10.17	Time:		Flow through ce		120011	GW Meter No.(s SI ODE 8
	Date/Time:		1345	End Purge:	-	8/ 10 /2021 @	1.408	Gallons Purged:	S SLOTE 8
Purge water of		8/ 10 /2021	55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	ENT SVSTEM
Turge water t	nsposed to.	-	55-gai Dium		Storage Talik	_	_	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	. ,	dings within the fo	. ,	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1348	21.9	357.0	0.45	6.78	-29.5		10.45		
1351	24.9	367.3	0.35	6.85	-48.3		10.43		
1354	25.8	370.8	0.32	6.88	-54.6		10.38		
	·								
1357		370.5	0.27	6.87	-57.3		10.38		
1400	27.4	367.3	0.29	6.82	-58.4		10.38		
1403	27.5	364.8	0.29	6.80	-58.5				
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)	Other							
Sample Desc	ription (color,	turbidity, odor	, sheen, etc.):	CLEAR, CO	LORLESS, NO C	DOR, NO SHEEN	, SLIGHTLY EF	FERVESCENT	
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	27.1	361.4	0.35	6.75	-57.2	(1.12)	(11)	(2 0 12)	
2	27.1	360.0	0.32	6.74	-57.2			-	
3	27.2	360.0	0.32	6.73	-56.7				
4	27.1	359.4	0.32	6.72	-56.7				
Average:	27.1	360.2	0.33	6.74	-57.0			-	
OUANTITY	TYPICAL A	NALYSIS AI	LOWED PE	ER BOTTLE	TYPE (Circle ar	plicable or write	non-standard ai	nalysis below)	
3	1	(8010) (8020			` .	P		WA 🗆	OR 🗌
	(8270D) (PA	AH) (NWTPI	H-D) (NWTI	PH-Dx) (TPH	I-HCID) (8081)	(8141) (Oil & Gr	rease)	WA 🗆	OR 🗆
	(nH) (Condu	ectivity) (TD	S) (TSS) (E	BOD) (Turbio	dity) (Alkalinity)	(HCO3/CO3) (C	Cl) (SO4) (NO	3) (NO2) (F)	
1	(pii) (Condi	ictivity) (1D			.) (2,1112)	(MO2/MO2)			·
	u / (C5310C) (To	tal PO4) (To	tal Kiedahl N	itrogen) (NH3)	(NO3/NO2)			
	(COD) (TOO (Total Cyanic	C5310C) (To le) (WAD Cy	anide) (Free	Cyanide)					
1	(COD) (TOO (Total Cyanic (Total Metals	C5310C) (To le) (WAD Cy) (As) (Sb) (ranide) (Free Ba) (Be) (Ca	Cyanide) a) (Cd) (Co)	(Cr) (Cu) (Fe)	(Pb) (Mg) (Mn) (
1	(COD) (TOO (Total Cyanic (Total Metals (Dissolved M	C5310C) (To le) (WAD Cy) (As) (Sb) (etals) (As) (Sb	ranide) (Free Ba) (Be) (Ca	Cyanide) a) (Cd) (Co)	(Cr) (Cu) (Fe)	(Pb) (Mg) (Mn) (g) (K) (Na) Na) (Hardness) (Sili
1	(COD) (TOO (Total Cyanic (Total Metals (Dissolved M VOC (Boein	C5310C) (To le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (G	Cyanide) a) (Cd) (Co)	(Cr) (Cu) (Fe)	(Pb) (Mg) (Mn) (
1	(COD) (TOO (Total Cyanic (Total Metals (Dissolved M VOC (Boein	C5310C) (To le) (WAD Cy) (As) (Sb) (etals) (As) (Sb	ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (G	Cyanide) a) (Cd) (Co)	(Cr) (Cu) (Fe)	(Pb) (Mg) (Mn) (
1	(COD) (TOO (Total Cyanic (Total Metals (Dissolved M VOC (Boein	C5310C) (To le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (G	Cyanide) a) (Cd) (Co)	(Cr) (Cu) (Fe)	(Pb) (Mg) (Mn) (
1	(COD) (TOO (Total Cyanic (Total Metals (Dissolved M VOC (Boein	C5310C) (To le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (G	Cyanide) a) (Cd) (Co)	(Cr) (Cu) (Fe)	(Pb) (Mg) (Mn) (
	(COD) (Total Cyanic (Total Metals (Dissolved M VOC (Boein Methane Eth	C5310C) (To le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (G	Cyanide) a) (Cd) (Co)	(Cr) (Cu) (Fe)	(Pb) (Mg) (Mn) (
1 Duplicate San	(COD) (Total Cyanic (Total Metals (Dissolved M VOC (Boein Methane Eth	C5310C) (To le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (G	Cyanide) a) (Cd) (Co)	(Cr) (Cu) (Fe)	(Pb) (Mg) (Mn) (
	(COD) (Total Cyanic (Total Metals (Dissolved M VOC (Boein Methane Eth	C5310C) (To le) (WAD Cy) (As) (Sb) (etals) (As) (Sb g short list)	ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (G	Cyanide) a) (Cd) (Co)	(Cr) (Cu) (Fe)	(Pb) (Mg) (Mn) (



Project Nam	e:	Boeing Ren	ton		Project Number	r <u>:</u>	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 10 /2021@	1155		
Sample Num	nber:	RGW173S-	210810		Weather:	SUNNY 60'S			
Landau Repr	resentative:	AHA							
WATER LEV	'EL/WELL/PU	IRGE DATA							
Well Conditio	on:	Secure (YES)	Damaged (N	O)	Describe:	FLUSHMOUN	IT	
DTW Before l	Purging (ft)	10.28	Time:		Flow through ce	ll vol.		GW Meter No.(s	SLOPE 2
Begin Purge:			1132	End Purge:	_	8/ 10 /2021 @	1153	Gallons Purged:	0.25
Purge water d			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	
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	
1135	23.6	328.8	1.16	6.36	-27.2		10.38		
1138	24.6	372.2	1.01	6.39	-46.1		10.38		
1141	25.1	388.5	0.96	6.42	-54.7		10.35		
1144	25.7	399.8	0.79	6.46	-60.9		10.35		
1147	26.2	408.6	0.73	6.48	-67.9		10.35		
1150	26.6	411.6	0.67	6.49	-71.3		10.35	. ———	
1152	26.8	413.4	0.63	6.51	-74.3				
SAMPLE CO									
Sample Collec	cted With:	_	Bailer		Pump/Pump Type	-			
Made of:	Щ	Stainless Ste	el	PVC	Teflon	Polyethylene	Other	☐ Dedicated	
Decon Proced	lure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	(1 Ordor)	Other							
		-							
		-	, sheen, etc.):	SLIGHT YE	LLOW TINT, ME	ED-HIGH TURB, N	NO ODOR, NO S	SHEEN	
Sample Descr	ription (color, t	turbidity, odor	· <u>-</u>						Comments/
		-	D.O. (mg/L)	SLIGHT YE	CRP (mV)	ED-HIGH TURB, N Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	Temp	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW	Ferrous iron	
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm) 413.8	D.O. (mg/L)	рН 6.50	ORP (mV)	Turbidity	DTW	Ferrous iron	
Replicate 1 2	Temp (°F/°C) 26.8	Cond. (uS/cm) 413.8 415.1	D.O. (mg/L) 0.61	pH 6.50 6.50	ORP (mV) -74.7 -75.3	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3	Temp (°F/°C) 26.8 26.8	Cond. (uS/cm) 413.8 415.1 415.2	D.O. (mg/L) 0.61 0.63	pH 6.50 6.50 6.50	ORP (mV) -74.7 -75.3 -75.6	Turbidity	DTW	Ferrous iron	
Replicate 1 2	Temp (°F/°C) 26.8	Cond. (uS/cm) 413.8 415.1	D.O. (mg/L) 0.61	pH 6.50 6.50	ORP (mV) -74.7 -75.3	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3	Temp (°F/°C) 26.8 26.8	Cond. (uS/cm) 413.8 415.1 415.2	D.O. (mg/L) 0.61 0.63	pH 6.50 6.50 6.50	ORP (mV) -74.7 -75.3 -75.6	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 26.8 26.8 26.8 26.8	Cond. (uS/cm) 413.8 415.1 415.2 415.3 414.9	D.O. (mg/L) 0.61 0.63 0.62 0.61	6.50 6.50 6.50 6.50 6.50	ORP (mV) -74.7 -75.3 -75.6 -75.9	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 26.8 26.8 26.8 26.8 TYPICAL A	Cond. (uS/cm) 413.8 415.1 415.2 415.3 414.9	D.O. (mg/L) 0.61 0.63 0.62 0.61 0.62	6.50 6.50 6.50 6.50 6.50 6.50	ORP (mV) -74.7 -75.3 -75.6 -75.9 -75.4 TYPE (Circle a)	Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 26.8 26.8 26.8 26.8 26.8 26.8 26.8	Cond. (uS/cm) 413.8 415.1 415.2 415.3 414.9 NALYSIS AI (8010) (8020)	D.O. (mg/L) 0.61 0.63 0.62 0.61 0.62 LOWED PE 0) (NWTPH-	6.50 6.50 6.50 6.50 6.50 6.50 6.50 6.50	ORP (mV) -74.7 -75.3 -75.6 -75.9 -75.4 TYPE (Circle application of the control of	Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 9	Temp (°F/°C) 26.8 26.8 26.8 26.8 26.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 413.8 415.1 415.2 415.3 414.9 NALYSIS AI (8010) (8020) AH) (NWTPHetivity) (TDS)	D.O. (mg/L) 0.61 0.63 0.62 0.61 0.62 LOWED PE 0) (NWTPH-H-D) (NWTP	6.50 6.50 6.50 6.50 6.50 6.50 6.FR BOTTLE G) (NWTPF	ORP (mV) -74.7 -75.3 -75.6 -75.9 -75.4 TYPE (Circle apolity) (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)	Ferrous iron (Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 26.8 26.8 26.8 26.8 26.8 26.8 (8260-SIM) (8270D) (PA(PH) (Conduction) (TOC)	Cond. (uS/cm) 413.8 415.1 415.2 415.3 414.9 NALYSIS AI (8010) (8020 AH) (NWTPH cetivity) (TD: 25310C) (To: 25310C) (To: 25310C)	D.O. (mg/L) 0.61 0.63 0.62 0.61 0.62 LOWED PE D) (NWTPH-I-D)	6.50 6.50 6.50 6.50 6.50 6.50 (R BOTTLE G) (NWTPF H-Dx) (TPF HOD) (Turbic tal Kiedahl N	ORP (mV) -74.7 -75.3 -75.6 -75.9 -75.4 TYPE (Circle apolity (BTEX) (BTEX) (BTEX)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 9	Temp (°F/°C) 26.8 26.8 26.8 26.8 26.8 26.8 (8260-SIM) (8270D) (PA(pH) (Conduction) (TOC) (Total Cyanid	Cond. (uS/cm) 413.8 415.1 415.2 415.3 414.9 NALYSIS AI (8010) (8020 AH) (NWTPH (1000) (TD) (25310C) (To) e) (WAD Cy	D.O. (mg/L) 0.61 0.63 0.62 0.61 0.62 LOWED PE D) (NWTPH-H-D)	6.50 6.50 6.50 6.50 6.50 6.50 (R BOTTLE G) (NWTPF H-Dx) (TPF HOD) (Turbic tal Kiedahl N Cyanide)	ORP (mV) -74.7 -75.3 -75.6 -75.9 -75.4 TYPE (Circle all H-Gx) (BTEX) H-HCID) (8081) Hittingen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G. (HCO3/CO3) (O. (NO3/NO2)	DTW (ft) non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA O WA O WA O WA O WA O WA O WA	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 9	Temp (°F/°C) 26.8 26.8 26.8 26.8 26.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction (COD) (Total Cyanidal (Total Metals))	Cond. (uS/cm) 413.8 415.1 415.2 415.3 414.9 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (To (e) (WAD Cy (das) (Sb) (D.O. (mg/L) 0.61 0.63 0.62 0.61 0.62 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To anide) (Free Ba) (Ba) (Ca	6.50 6.50 6.50 6.50 6.50 6.70 6.50 6.50 6.50 CR BOTTLE G) (NWTPF H-Dx) (TPF COD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -74.7 -75.3 -75.6 -75.9 -75.4 TYPE (Circle alder al	#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	Ferrous iron (Fe II) malysis below) WA WA WA OB ON	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 9	Temp (°F/°C) 26.8 26.8 26.8 26.8 26.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M.	Cond. (uS/cm) 413.8 415.1 415.2 415.3 414.9 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (5310C) (Tos (e) (WAD Cy (das) (Sb) (etals) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L) 0.61 0.63 0.62 0.61 0.62 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To anide) (Free Ba) (Ba) (Ca	6.50 6.50 6.50 6.50 6.50 6.70 6.50 6.50 6.50 CR BOTTLE G) (NWTPF H-Dx) (TPF COD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -74.7 -75.3 -75.6 -75.9 -75.4 TYPE (Circle alder al	#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	Ferrous iron (Fe II) malysis below) WA WA WA OB ON	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 9	Temp (°F/°C) 26.8 26.8 26.8 26.8 26.8 26.8 26.8 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 413.8 415.1 415.2 415.3 414.9 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS) (25310C) (To- (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb (g short list)	D.O. (mg/L) 0.61 0.62 0.61 0.62 1.LOWED PE 0) (NWTPH-I-D) (N	6.50 6.50 6.50 6.50 6.50 6.70 6.50 6.50 6.50 CR BOTTLE G) (NWTPF H-Dx) (TPF COD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -74.7 -75.3 -75.6 -75.9 -75.4 TYPE (Circle alder al	#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	Ferrous iron (Fe II) malysis below) WA WA WA OB ON	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 9	Temp (°F/°C) 26.8 26.8 26.8 26.8 26.8 26.8 26.8 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 413.8 415.1 415.2 415.3 414.9 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (5310C) (Tos (e) (WAD Cy (das) (Sb) (etals) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L) 0.61 0.62 0.61 0.62 1.LOWED PE 0) (NWTPH-I-D) (N	6.50 6.50 6.50 6.50 6.50 6.70 6.50 6.50 6.50 CR BOTTLE G) (NWTPF H-Dx) (TPF COD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -74.7 -75.3 -75.6 -75.9 -75.4 TYPE (Circle alder al	#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	Ferrous iron (Fe II) malysis below) WA WA WA OB ON	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 9	Temp (°F/°C) 26.8 26.8 26.8 26.8 26.8 26.8 26.8 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 413.8 415.1 415.2 415.3 414.9 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS) (25310C) (To- (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb (g short list)	D.O. (mg/L) 0.61 0.62 0.61 0.62 1.LOWED PE 0) (NWTPH-I-D) (N	6.50 6.50 6.50 6.50 6.50 6.70 6.50 6.50 6.50 CR BOTTLE G) (NWTPF H-Dx) (TPF COD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -74.7 -75.3 -75.6 -75.9 -75.4 TYPE (Circle alder al	#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	Ferrous iron (Fe II) malysis below) WA WA WA OB ON	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 9	Temp (°F/°C) 26.8 26.8 26.8 26.8 26.8 26.8 26.8 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 413.8 415.1 415.2 415.3 414.9 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS) (25310C) (To- (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb (g short list)	D.O. (mg/L) 0.61 0.62 0.61 0.62 1.LOWED PE 0) (NWTPH-I-D) (N	6.50 6.50 6.50 6.50 6.50 6.70 6.50 6.50 6.50 CR BOTTLE G) (NWTPF H-Dx) (TPF COD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -74.7 -75.3 -75.6 -75.9 -75.4 TYPE (Circle alder al	#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	Ferrous iron (Fe II) malysis below) WA WA WA OB ON	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 9 3 3	Temp (°F/°C) 26.8 26.8 26.8 26.8 26.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 413.8 415.1 415.2 415.3 414.9 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (Toc (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (setals) (As) (Sb) (anne Ethene Acceptance)	D.O. (mg/L) 0.61 0.63 0.62 0.61 0.62 LOWED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-D) (NWTPH	6.50 6.50 6.50 6.50 6.50 6.70 6.50 6.50 6.50 CR BOTTLE G) (NWTPF H-Dx) (TPF COD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -74.7 -75.3 -75.6 -75.9 -75.4 TYPE (Circle alder al	#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	Ferrous iron (Fe II) malysis below) WA WA OB WA	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) 26.8 26.8 26.8 26.8 26.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 413.8 415.1 415.2 415.3 414.9 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS) (25310C) (To- (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb (g short list)	D.O. (mg/L) 0.61 0.63 0.62 0.61 0.62 LOWED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-D) (NWTPH	6.50 6.50 6.50 6.50 6.50 6.70 6.50 6.50 6.50 CR BOTTLE G) (NWTPF H-Dx) (TPF COD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -74.7 -75.3 -75.6 -75.9 -75.4 TYPE (Circle alder al	#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	Ferrous iron (Fe II) malysis below) WA WA OB WA	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 9 3 3	Temp (°F/°C) 26.8 26.8 26.8 26.8 26.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 413.8 415.1 415.2 415.3 414.9 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (Toc (e) (WAD Cy (f) (As) (Sb) (etals) (As) (Sb) (setals) (As) (Sb) (anne Ethene Acceptance)	D.O. (mg/L) 0.61 0.63 0.62 0.61 0.62 LOWED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-D) (NWTPH	6.50 6.50 6.50 6.50 6.50 6.70 6.50 6.50 6.50 CR BOTTLE G) (NWTPF H-Dx) (TPF COD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -74.7 -75.3 -75.6 -75.9 -75.4 TYPE (Circle alder al	#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	Ferrous iron (Fe II) malysis below) WA WA OB WA	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:		Aug-21			Date/Time:	8/ 17 /2021@	915		
Sample Nun	nber:	RGW176S-	210817		Weather:	OVERCAST, 60	0S		
Landau Rep	resentative:	BXM							
WATER LEV	VEL/WELL/PU	RGE DATA							
Well Condition		Secure (YES)	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ff)	5.77	Time:		Flow through ce	l vol		GW Meter No.(s	SLOPE 2
	0 0 0	8/ 17 /2021	851	End Purge:		8/ 17 /2021 @	913	Gallons Purged:	SECTE 2
Purge water of		6/17 /2021	55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	ENT CVCTEM
i uige water c	iisposed to.		55-gai Diuiii		Storage Tank	Ш Ground	Other	SHE TREATM	ENI SISIEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
						dings within the fo		>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
905	17.3	590	1.70	5.87	-15.0		5.85		
908	17.1	586	1.79	5.89	-13.9		5.88		
911	17.0	584	1.61	5.90	-15.9		5.88		
914		579	1.39	5.91	-19.4		5.89	-	
							3.67		
917	16.8	576	1.30	5.91	-21.6		· 		
920	16.8	573	1.24	5.92	-23.1				
923	16.8	569	1.22	5.91	-24.5				
SAMPLE CO	DLLECTION D	ATA							
Sample Colle	ected With:		Bailer		Pump/Pump Type	Peristaltic			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee	dure:	Alconox Was	sh 🗖	Tap Rinse	DI Water	Dedicated	_	_	
(By Numerica	_	Other		1					
()									
Sample Desc	ription (color,	urbidity, odor	sheen, etc.):	CLEAR, CO	LORLESS, NO C	DOR, NO SHEEN			
Sample Desc	ription (color,	turbidity, odor	, sheen, etc.):	CLEAR, CO	LORLESS, NO C	DOR, NO SHEEN			
Replicate	Temp	Cond. (uS/cm)	D.O. (mg/L)	CLEAR, CO	ORP (mV)	DOR, NO SHEEN Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity	DTW		
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 5.91	ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 16.8	Cond. (uS/cm) 571	D.O. (mg/L) 1.20	pH 5.91 5.91	ORP (mV) -24.5	Turbidity	DTW		
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 5.91	ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 16.8	Cond. (uS/cm) 571	D.O. (mg/L) 1.20	pH 5.91 5.91	ORP (mV) -24.5	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 16.8 16.8	Cond. (uS/cm) 571 571 569	D.O. (mg/L) 1.20 1.18	pH 5.91 5.91 5.92	ORP (mV) -24.5 -24.5 -25.0	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 16.8 16.8 16.8 16.8	Cond. (uS/cm) 571 571 569 569	D.O. (mg/L) 1.20 1.18 1.17 1.18	5.91 5.91 5.92 5.92 5.92	ORP (mV) -24.5 -24.5 -25.0 -25.0	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 16.8 16.8 16.8 16.8 16.8	Cond. (uS/cm) 571 571 569 569 570	D.O. (mg/L) 1.20 1.18 1.17 1.18 1.18	5.91 5.91 5.92 5.92 5.92 CR BOTTLE	ORP (mV) -24.5 -24.5 -25.0 -25.0 -24.8 TYPE (Circle ap	Turbidity	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 16.8 16.8 16.8 16.8 16.8 (8260) (8010	Cond. (uS/cm) 571 571 569 569 570 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 1.20 1.18 1.17 1.18 1.18 LOWED PE	5.91 5.92 5.92 5.92 CR BOTTLE NWTPH-GX	ORP (mV) -24.5 -24.5 -25.0 -25.0 -24.8 TYPE (Circle aport) (BTEX)	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 16.8 16.8 16.8 16.8 16.8 (8260) (8010 (8270D) (PA	Cond. (uS/cm) 571 571 569 569 570 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 1.20 1.18 1.17 1.18 1.18 LOWED PE	5.91 5.92 5.92 5.92 CR BOTTLE NWTPH-GX;	ORP (mV) -24.5 -24.5 -25.0 -24.8 TYPE (Circle ap (BTEX)) I-HCID) (8081)	Turbidity (NTU)	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 16.8 16.8 16.8 16.8 16.8 (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 571 571 569 569 570 NALYSIS AI () (8020) (N LH) (NWTPHectivity) (TD:	D.O. (mg/L) 1.20 1.18 1.17 1.18 1.18 LOWED PENWTPH-G) (M-D) (NWTP	5.91 5.92 5.92 5.92 5.92 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GOD) (Turbic	ORP (mV) -24.5 -24.5 -25.0 -24.8 TYPE (Circle ap (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 OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 16.8 16.8 16.8 16.8 16.8 (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 571 571 569 569 570 NALYSIS AI (2) (8020) (N (3H) (NWTPI (4H) (NWTPI (5H) (TDI (5C) (Total PO-	D.O. (mg/L) 1.20 1.18 1.17 1.18 1.18 LOWED PE WTPH-G) (M-D) (NWTP S) (TSS) (B 4) (Total Kie	5.91 5.92 5.92 5.92 5.92 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GOD) (Turbio dahl Nitroger	ORP (mV) -24.5 -24.5 -25.0 -25.0 -24.8 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity)	Turbidity (NTU) pplicable or write (8141) (Oil & Gr	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 16.8 16.8 16.8 16.8 16.8 (8260) (8010) (8270D) (PA) (pH) (Conduction (COD) (TOO) (Total Cyanide)	Cond. (uS/cm) 571 569 569 570 NALYSIS AI 0) (8020) (N H) (NWTPF letivity) (TD: c) (Total PO- e) (WAD Cy	D.O. (mg/L) 1.20 1.18 1.17 1.18 1.18 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free	5.91 5.92 5.92 5.92 5.92 CR BOTTLE NWTPH-GX; PH-Dx) (TPH-GOD) (Turbid dahl Nitroger Cyanide)	ORP (mV) -24.5 -24.5 -25.0 -25.0 -24.8 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity)	Turbidity (NTU) pplicable or write (8141) (Oil & Gr	DTW (ft) non-standard and arease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA ONE OF THE CONTRACT OF TH	Observations OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 16.8 16.8 16.8 16.8 16.8 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals)	Cond. (uS/cm) 571 569 569 570 NALYSIS AI 0) (8020) (N LH) (NWTPF activity) (TDal C) (Total PO- e) (WAD Cy) (As) (Sb) (D.O. (mg/L) 1.20 1.18 1.17 1.18 1.18 LLOWED PE WITPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	5.91 5.92 5.92 5.92 5.92 CR BOTTLE (NWTPH-GX) PH-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -24.5 -24.5 -25.0 -25.0 -24.8 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Grown (HCO3/CO3) (ONO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (He	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 16.8 16.8 16.8 16.8 16.8 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals)	Cond. (uS/cm) 571 579 569 570 NALYSIS AI 0) (8020) (N H) (NWTPHetrivity) (TD: C) (Total PO- e) (WAD Cy) (As) (Sb) (cetals) (As) (Sb)	D.O. (mg/L) 1.20 1.18 1.17 1.18 1.18 LLOWED PE WITPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	5.91 5.92 5.92 5.92 5.92 CR BOTTLE (NWTPH-GX) PH-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -24.5 -24.5 -25.0 -25.0 -24.8 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Grown (HCO3/CO3) (ONO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (He	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 16.8 16.8 16.8 16.8 16.8 16.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 571 579 569 570 NALYSIS AI 0) (8020) (N H) (NWTPHetrivity) (TD: C) (Total PO- e) (WAD Cy) (As) (Sb) (cetals) (As) (Sb)	D.O. (mg/L) 1.20 1.18 1.17 1.18 1.18 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.91 5.92 5.92 5.92 5.92 CR BOTTLE (NWTPH-GX) PH-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -24.5 -24.5 -25.0 -25.0 -24.8 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Grown (HCO3/CO3) (ONO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (He	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 16.8 16.8 16.8 16.8 16.8 16.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 571 579 569 570 NALYSIS AI (2) (8020) (N (3H) (NWTPI (4) (TDi (5) (Total PO- (6) (WAD Cy (6) (As) (Sb) (Set) (9) (g short list)	D.O. (mg/L) 1.20 1.18 1.17 1.18 1.18 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.91 5.92 5.92 5.92 5.92 CR BOTTLE (NWTPH-GX) PH-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -24.5 -24.5 -25.0 -25.0 -24.8 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Grown (HCO3/CO3) (ONO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (He	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 16.8 16.8 16.8 16.8 16.8 16.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 571 579 569 570 NALYSIS AI (2) (8020) (N (3H) (NWTPI (4) (TDi (5) (Total PO- (6) (WAD Cy (6) (As) (Sb) (Set) (9) (g short list)	D.O. (mg/L) 1.20 1.18 1.17 1.18 1.18 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.91 5.92 5.92 5.92 5.92 CR BOTTLE (NWTPH-GX) PH-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -24.5 -24.5 -25.0 -25.0 -24.8 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Grown (HCO3/CO3) (ONO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (He	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 16.8 16.8 16.8 16.8 16.8 16.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 571 579 569 570 NALYSIS AI (2) (8020) (N (3H) (NWTPI (4) (TDi (5) (Total PO- (6) (WAD Cy (6) (As) (Sb) (Set) (9) (g short list)	D.O. (mg/L) 1.20 1.18 1.17 1.18 1.18 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.91 5.92 5.92 5.92 5.92 CR BOTTLE (NWTPH-GX) PH-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -24.5 -24.5 -25.0 -25.0 -24.8 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Grown (HCO3/CO3) (ONO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (He	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 16.8 16.8 16.8 16.8 16.8 16.8 (8270D) (PA (PH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Ether))	Cond. (uS/cm) 571 579 569 570 NALYSIS AI (2) (8020) (N (3H) (NWTPI (4) (TDi (5) (Total PO- (6) (WAD Cy (6) (As) (Sb) (Set (6) (g short list)	D.O. (mg/L) 1.20 1.18 1.17 1.18 1.18 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.91 5.92 5.92 5.92 5.92 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -24.5 -24.5 -25.0 -25.0 -24.8 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Grown (HCO3/CO3) (ONO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (He	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 16.8 16.8 16.8 16.8 16.8 16.8 (8270D) (PA (PH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Ether))	Cond. (uS/cm) 571 579 569 570 NALYSIS AI (2) (8020) (N (3H) (NWTPI (4) (TDi (5) (Total PO- (6) (WAD Cy (6) (As) (Sb) (Set (6) (g short list)	D.O. (mg/L) 1.20 1.18 1.17 1.18 1.18 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.91 5.92 5.92 5.92 5.92 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -24.5 -24.5 -25.0 -25.0 -24.8 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Grown (HCO3/CO3) (ONO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (He	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 16.8 16.8 16.8 16.8 16.8 16.8 (8270D) (PA (PH) (Condu (COD) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Ether))	Cond. (uS/cm) 571 579 569 570 NALYSIS AI (2) (8020) (N (3H) (NWTPI (4) (TDi (5) (Total PO- (6) (WAD Cy (6) (As) (Sb) (Set (6) (g short list)	D.O. (mg/L) 1.20 1.18 1.17 1.18 1.18 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	5.91 5.92 5.92 5.92 5.92 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -24.5 -24.5 -25.0 -25.0 -24.8 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Grown (HCO3/CO3) (ONO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (He	Observations OR OR OR OR OR OR OR OR OR OR



Event:	ne:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
L VCIII.		Aug-21			Date/Time:	8/ 12 /2021@	842		
Sample Nun	nber:	RGW178S-	210812		Weather:	SUNNY, 80S			
Landau Rep	resentative:	BXM							
WATER LEV	/EL/WELL/PU	RGE DATA							
Well Condition		Secure (YES)	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	8.29	Time:		Flow through cel	l vol		GW Meter No.(s	SLOPE #8
	Date/Time:		817	End Purge:	C	8/ 12 /2021 @	840	Gallons Purged:	1
Purge water d		6/ 12 /2021	55-gal Drum		Storage Tank	Ground		SITE TREATM	ENIT SVSTEM
i dige water d	nsposed to.		55-gai Diuiii		Storage Tank	□ Ground	Other	SITE TREATM	EIVI SISIEWI
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	
820	17.8	371.6	0.59	6.21	7.1		8.30		
823	18.5	384.9	0.51	6.24	2.5		8.30		
826		399.9	0.46		-2.5		8.31		
-				6.31			8.31		
829	19.2	411.0	0.48	6.34	-4.9				
832	19.2	416.2	0.5	6.34	-6.3		· 		
835	19.2	417.1	0.54	6.34	-7.2				
838	19.2	417.5	0.55	6.34	-8.7				
	-						·		
SAMPLE CO	LLECTION D	ATA							
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	<u> </u>	ш Бешешев	
(By Numerica	_	Other	sıı 🗀	rap Kilise	☐ DI Water	Dedicated			
. •			.1	No coron			•		
Sample Desci	HDUOH (COIOL. I				NO ODOD NO	CHEEN CLEAD			
	····· (,	urbiaity, oaor	, sneen, etc.):	NO COLOR	, NO ODOR, NO	SHEEN, CLEAR			
Replicate	Temp	Cond.	D.O.	pH	ORP	SHEEN, CLEAR Turbidity	DTW	Ferrous iron	Comments/
Replicate							DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate	Temp	Cond.	D.O.		ORP	Turbidity			
•	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity			
1 2	Temp (°F/°C) 19.2	Cond. (uS/cm) 417.4 417.6	D.O. (mg/L) 0.55	pH 6.34 6.34	ORP (mV) -8.7 -8.9	Turbidity			
1 2 3	Temp (°F/°C) 19.2 19.2	Cond. (uS/cm) 417.4 417.6 417.4	D.O. (mg/L) 0.55 0.55	pH 6.34 6.34 6.34	ORP (mV) -8.7 -8.9 -9.0	Turbidity			
1 2 3 4	Temp (°F/°C) 19.2 19.2 19.2	Cond. (uS/cm) 417.4 417.6 417.4 417.4	D.O. (mg/L) 0.55 0.55 0.55	pH 6.34 6.34 6.34 6.34	ORP (mV) -8.7 -8.9 -9.0	Turbidity			
1 2 3	Temp (°F/°C) 19.2 19.2	Cond. (uS/cm) 417.4 417.6 417.4	D.O. (mg/L) 0.55 0.55	pH 6.34 6.34 6.34	ORP (mV) -8.7 -8.9 -9.0	Turbidity			
1 2 3 4	Temp (°F/°C) 19.2 19.2 19.2 19.2 19.2	Cond. (uS/cm) 417.4 417.6 417.4 417.4 417.5	D.O. (mg/L) 0.55 0.55 0.55 0.55	pH 6.34 6.34 6.34 6.34 6.34	ORP (mV) -8.7 -8.9 -9.0 -9.2 -9.0	Turbidity	(ft)	(Fe II)	
1 2 3 4 Average:	Temp (°F/°C) 19.2 19.2 19.2 19.2 19.2	Cond. (uS/cm) 417.4 417.6 417.4 417.4 417.5	D.O. (mg/L) 0.55 0.55 0.55 0.55	pH 6.34 6.34 6.34 6.34 6.34 6.34	ORP (mV) -8.7 -8.9 -9.0 -9.2 -9.0 TYPE (Circle ap	Turbidity (NTU)	(ft)	(Fe II)	
1 2 3 4 Average:	Temp (°F/°C) 19.2 19.2 19.2 19.2 19.2 TYPICAL A (8260) (8010	Cond. (uS/cm) 417.4 417.6 417.4 417.5 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.55 0.55 0.55 0.55 LOWED PE	6.34 6.34 6.34 6.34 6.34 RESTREAM 6.34 RESTREAM 6.34	ORP (mV) -8.7 -8.9 -9.0 -9.2 -9.0 TYPE (Circle aport) (BTEX)	Turbidity (NTU)	(ft)	(Fe II)	Observations
1 2 3 4 Average:	Temp (°F/°C) 19.2 19.2 19.2 19.2 19.2 19.2 19.2 (8260) (8010) (8270D) (PA	Cond. (uS/cm) 417.4 417.6 417.4 417.5 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.55 0.55 0.55 0.55 0.55 LOWED PE	6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-Gx)	ORP (mV) -8.7 -8.9 -9.0 -9.2 -9.0 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU)	(ft) non-standard an	(Fe II) malysis below) WA WA WA	Observations OR
1 2 3 4 Average:	Temp (°F/°C) 19.2 19.2 19.2 19.2 19.2 19.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction) (TOO	Cond. (uS/cm) 417.4 417.6 417.4 417.5 NALYSIS AI (2) (8020) (N (3H) (NWTPH (4) (10 (10 (10 (10 (10 (10 (10 (10 (10 (10	D.O. (mg/L) 0.55 0.55 0.55 0.55 LOWED PE JWTPH-G) (NWTP S) (TSS) (B	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-Dx) (TPH-Dx) (Turbio dahl Nitroger	ORP (mV) -8.7 -8.9 -9.0 -9.2 -9.0 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & Gr	(ft) non-standard an	(Fe II) malysis below) WA WA WA	Observations OR
1 2 3 4 Average:	Temp (°F/°C) 19.2 19.2 19.2 19.2 19.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid	Cond. (uS/cm) 417.4 417.6 417.4 417.5 NALYSIS AI () (8020) (N AH) (NWTPH (ctivity) (TDS (C) (Total PO4 e) (WAD Cy	D.O. (mg/L) 0.55 0.55 0.55 0.55 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie anide) (Free	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-GX) PH-Dx) (TPH-GX) CH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide)	ORP (mV) -8.7 -8.9 -9.0 -9.2 -9.0 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Gr (HCO3/CO3) (O	non-standard and rease)	(Fe II) malysis below) WA WA WA Solution WA Solutio	Observations OR OR OR
1 2 3 4 Average:	Temp (°F/°C) 19.2 19.2 19.2 19.2 19.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals)	Cond. (uS/cm) 417.4 417.6 417.4 417.5 NALYSIS AI () (8020) (N () (NWTPI- () (Total PO- () (AS) (Sb) (D.O. (mg/L) 0.55 0.55 0.55 0.55 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie anide) (Free Ba) (Be) (Ca	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-GX) H-DX) (TPH-GOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -8.7 -8.9 -9.0 -9.2 -9.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average:	Temp (°F/°C) 19.2 19.2 19.2 19.2 19.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M.	Cond. (uS/cm) 417.4 417.6 417.4 417.5 NALYSIS AI () (8020) (N (H) (NWTPFectivity) (TDS (C) (Total PO4 e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.55 0.55 0.55 0.55 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie anide) (Free Ba) (Be) (Ca	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-GX) H-DX) (TPH-GX) H-DX) (TUrbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -8.7 -8.9 -9.0 -9.2 -9.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR
1 2 3 4 Average:	Temp (°F/°C) 19.2 19.2 19.2 19.2 19.2 19.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 417.4 417.6 417.4 417.5 NALYSIS AI (b) (8020) (N (c) (NWTPH (ctivity) (TDS) (c) (Total PO4 (c) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.55 0.55 0.55 0.55 0.55 LOWED PE WTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-GX) H-DX) (TPH-GX) H-DX) (TUrbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -8.7 -8.9 -9.0 -9.2 -9.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average:	Temp (°F/°C) 19.2 19.2 19.2 19.2 19.2 19.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 417.4 417.6 417.4 417.5 NALYSIS AI () (8020) (N (H) (NWTPFectivity) (TDS (C) (Total PO4 e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.55 0.55 0.55 0.55 0.55 LOWED PE WTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-GX) H-DX) (TPH-GX) H-DX) (TUrbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -8.7 -8.9 -9.0 -9.2 -9.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average:	Temp (°F/°C) 19.2 19.2 19.2 19.2 19.2 19.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 417.4 417.6 417.4 417.5 NALYSIS AI (b) (8020) (N (c) (NWTPH (ctivity) (TDS) (c) (Total PO4 (c) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.55 0.55 0.55 0.55 0.55 LOWED PE WTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-GX) H-DX) (TPH-GX) H-DX) (TUrbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -8.7 -8.9 -9.0 -9.2 -9.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average:	Temp (°F/°C) 19.2 19.2 19.2 19.2 19.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein Methane Eth	Cond. (uS/cm) 417.4 417.6 417.4 417.5 NALYSIS AI (b) (8020) (N (c) (NWTPH (ctivity) (TDS) (c) (Total PO4 (c) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.55 0.55 0.55 0.55 0.55 LOWED PE WTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-GX) H-DX) (TPH-GX) H-DX) (TUrbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -8.7 -8.9 -9.0 -9.2 -9.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average:	Temp (°F/°C) 19.2 19.2 19.2 19.2 19.2 19.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 417.4 417.6 417.4 417.5 NALYSIS AI (b) (8020) (N (c) (NWTPH (ctivity) (TDS) (c) (Total PO4 (c) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.55 0.55 0.55 0.55 0.55 LOWED PE WTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-GX) H-DX) (TPH-GX) H-DX) (TUrbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -8.7 -8.9 -9.0 -9.2 -9.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average:	Temp (°F/°C) 19.2 19.2 19.2 19.2 19.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein Methane Eth	Cond. (uS/cm) 417.4 417.6 417.4 417.5 NALYSIS AI (b) (8020) (N (c) (NWTPH (ctivity) (TDS) (c) (Total PO4 (c) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.55 0.55 0.55 0.55 0.55 LOWED PE WTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-GX) H-DX) (TPH-GX) H-DX) (TUrbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -8.7 -8.9 -9.0 -9.2 -9.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 19.2 19.2 19.2 19.2 19.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein Methane Eth	Cond. (uS/cm) 417.4 417.6 417.4 417.5 NALYSIS AI (b) (8020) (N (c) (NWTPH (ctivity) (TDS) (c) (Total PO4 (c) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.55 0.55 0.55 0.55 0.55 LOWED PE WTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca)	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-GX) H-DX) (TPH-GX) H-DX) (TUrbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -8.7 -8.9 -9.0 -9.2 -9.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr NO2)	non-standard and rease) 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 Nam	ne:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 12 /2021@	1324		
Sample Nun	nber:	RGW188S-	210812		Weather:	SUNNY, 80S			
Landau Rep	resentative:	BXM							
WATER LEV	VEL/WELL/PU	JRGE DATA							
Well Condition		Secure (YES)	Damaged (N	(O)	Describe:	FLUSH		
DTW Before	Purging (ft)	4.05	Time:	•	Flow through cel	l vol		GW Meter No.(s	SLOPE #8
	Date/Time:		1256	End Purge:	_	8/ 12 /2021 @	. 1320	Gallons Purged:	BEOLE WO
Purge water of		8/ 12 /2021	55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	ENIT CVCTEM
i uige water c	nsposed to.		55-gai Diuiii		Storage Talik	Ш Ground	Other	SHE IKEAIWI	ENI SISIEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O.	pН	ORP (mV)	Turbidity (NTU)	DTW	Internal Purge	Comments/
Time	, ,	,	(mg/L) on of Parame	ters for three	` '	(NTU) dings within the fo	(ft) ollowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units		+/- 10%	< 0.3 ft	through cell	
1259	20.8	414	0.15	6.33	-4.1		4.05		
1302	22.3	449	0.25	6.38	-10.8		4.05		
		479					4.04		
1305			0.21	6.47	-15.4		4.04		
1308	24.7	500	0.21	6.48	-18.2				
1311	25.2	511	0.24	6.5	-18.7				
1314	25.6	521	0.25	6.52	-20.0				
1317	25.7	532	0.27	6.53	-21.4				
	- 								
SAMPLE CO	DLLECTION D	ΔΤΔ					·		
Sample Colle			Bailer		Pump/Pump Type	BLADDER			
Made of:	cica with.	Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	
					DI Water			Bedicated	
Decon Proced	_	Alconox Was	sh 🔲	Tap Rinse	☐ DI Water	Dedicated			
(By Numerica	u Oraer)	II II Otner							
c 1 D		-	1 ()	NO COLOR	NO ODOD NO	CHEEN CMALL	DOMAI DA DEM	ar Ea	
Sample Desc	ription (color,	-	, sheen, etc.):	NO COLOR	, NO ODOR, NO	SHEEN, SMALL I	BROWN PARTIO	CLES	
		-	p.O.		, NO ODOR, NO	SHEEN, SMALL I	BROWN PARTIO		Comments/
Sample Describerate Replicate	Temp (°F/°C)	turbidity, odor	· -	NO COLOR				Ferrous iron (Fe II)	Comments/ Observations
	Temp	turbidity, odor	D.O.		ORP	Turbidity	DTW	Ferrous iron	
Replicate	Temp (°F/°C) 25.7	Cond. (uS/cm)	D.O. (mg/L)	рН 6.53	ORP (mV)	Turbidity	DTW	Ferrous iron	
Replicate 1 2	Temp (°F/°C) 25.7	Cond. (uS/cm) 532	D.O. (mg/L) 0.27	pH 6.53 6.53	ORP (mV) -21.7 -21.9	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3	Temp (°F/°C) 25.7 25.8	Cond. (uS/cm) 532 534 535	D.O. (mg/L) 0.27 0.27	pH 6.53 6.53 6.53	ORP (mV) -21.7 -21.9 -22.1	Turbidity	DTW	Ferrous iron	
Replicate 1 2	Temp (°F/°C) 25.7	Cond. (uS/cm) 532	D.O. (mg/L) 0.27	pH 6.53 6.53	ORP (mV) -21.7 -21.9	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3	Temp (°F/°C) 25.7 25.8	Cond. (uS/cm) 532 534 535	D.O. (mg/L) 0.27 0.27	pH 6.53 6.53 6.53	ORP (mV) -21.7 -21.9 -22.1	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3 4	Temp (°F/°C) 25.7 25.7 25.8 25.8 25.8	Cond. (uS/cm) 532 534 535 534	D.O. (mg/L) 0.27 0.27 0.27 0.29	pH 6.53 6.53 6.53 6.53 6.53	ORP (mV) -21.7 -21.9 -22.1 -22.3 -22.0	Turbidity	DTW (ft)	Ferrous iron (Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 25.7 25.7 25.8 25.8 25.8	Cond. (uS/cm) 532 534 535 534	D.O. (mg/L) 0.27 0.27 0.27 0.29 0.28	pH 6.53 6.53 6.53 6.53 6.53 CR BOTTLE	ORP (mV) -21.7 -21.9 -22.1 -22.3 -22.0 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 25.7 25.8 25.8 25.8 25.8 (8260) (8010	Cond. (uS/cm) 532 534 535 534 NALYSIS AI (0) (8020) (N	D.O. (mg/L) 0.27 0.27 0.27 0.29 0.28 LOWED PE	pH 6.53 6.53 6.53 6.53 6.53 CR BOTTLE NWTPH-GX	ORP (mV) -21.7 -21.9 -22.1 -22.3 -22.0 TYPE (Circle apple) (BTEX)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 25.7 25.8 25.8 25.8 25.8 (8260) (8010 (8270D) (PA	Cond. (uS/cm) 532 534 535 534 NALYSIS AI 0) (8020) (NAH) (NWTPH	D.O. (mg/L) 0.27 0.27 0.27 0.29 0.28 LOWED PE	6.53 6.53 6.53 6.53 6.53 CR BOTTLE NWTPH-GX	ORP (mV) -21.7 -21.9 -22.1 -22.3 -22.0 TYPE (Circle approximately (BTEX) H-HCID) (8081)	Turbidity (NTU)	DTW (ft) non-standard ar	Ferrous iron (Fe II) allysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 25.7 25.8 25.8 25.8 25.8 (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 532 534 535 534 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TD:	D.O. (mg/L) 0.27 0.27 0.27 0.29 0.28 LOWED PE NWTPH-G) (MWTP S) (TSS) (B	6.53 6.53 6.53 6.53 6.53 6.53 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPF-GOD) (Turbic	ORP (mV) -21.7 -21.9 -22.1 -22.3 -22.0 TYPE (Circle approximately (BTEX) H-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & G	DTW (ft) non-standard ar	Ferrous iron (Fe II) allysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 25.7 25.8 25.8 25.8 25.8 (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 532 534 535 534 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TD:	D.O. (mg/L) 0.27 0.27 0.29 0.28 LOWED PENTTH-G) (M-D) (NWTPS) (TSS) (B4) (Total Kie	6.53 6.53 6.53 6.53 6.53 6.53 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GX) CH-Dx) (Turbio dahl Nitroger	ORP (mV) -21.7 -21.9 -22.1 -22.3 -22.0 TYPE (Circle ago) (BTEX) I-HCID) (8081) dity) (Alkalinity)	Turbidity (NTU) pplicable or write (8141) (Oil & G	DTW (ft) non-standard ar	Ferrous iron (Fe II) allysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 25.7 25.8 25.8 25.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction) (COD) (Too	Cond. (uS/cm) 532 534 535 534 NALYSIS AI 0) (8020) (N AH) (NWTPH (ctivity) (TD) (C) (Total PO-	D.O. (mg/L) 0.27 0.27 0.29 0.28 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free	pH 6.53 6.53 6.53 6.53 6.53 CR BOTTLE NWTPH-Gx: PH-Dx) (TPH-Gx) CH-Dx) (Turbic dahl Nitroger Cyanide)	ORP (mV) -21.7 -21.9 -22.1 -22.3 -22.0 TYPE (Circle approximately (BTEX) H-HCID) (8081) dity) (Alkalinity) a) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G	non-standard ar	Ferrous iron (Fe II) malysis below) WA WA WA Solution	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 25.7 25.8 25.8 25.8 25.8 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Todal Cyanid (Total Metals)	Cond. (uS/cm) 532 534 535 534 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TD: C) (Total PO- le) (WAD Cy) (As) (Sb) (D.O. (mg/L) 0.27 0.27 0.27 0.29 0.28 LLOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.53 6.53 6.53 6.53 6.53 CR BOTTLE (NWTPH-Gx) (PH-Dx) (TPH-Gx) (TUrbic dahl Nitroger (Cyanide) a) (Cd) (Co)	ORP (mV) -21.7 -21.9 -22.1 -22.3 -22.0 TYPE (Circle ap (BTEX) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard ar rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 25.7 25.8 25.8 25.8 25.8 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Todal Cyanid (Total Metals)	Cond. (uS/cm) 532 534 535 534 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TD: (C) (Total PO- (de) (WAD Cy (de) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L) 0.27 0.27 0.27 0.29 0.28 LLOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.53 6.53 6.53 6.53 6.53 CR BOTTLE (NWTPH-Gx) (PH-Dx) (TPH-Gx) (TUrbic dahl Nitroger (Cyanide) a) (Cd) (Co)	ORP (mV) -21.7 -21.9 -22.1 -22.3 -22.0 TYPE (Circle ap (BTEX) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard ar rease) CI) (SO4) (NO	Ferrous iron (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) 25.7 25.8 25.8 25.8 25.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Tool (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 532 534 535 534 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TD: (C) (Total PO- (de) (WAD Cy (de) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L) 0.27 0.27 0.29 0.28 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	pH 6.53 6.53 6.53 6.53 6.53 CR BOTTLE (NWTPH-Gx) (PH-Dx) (TPH-Gx) (TUrbic dahl Nitroger (Cyanide) a) (Cd) (Co)	ORP (mV) -21.7 -21.9 -22.1 -22.3 -22.0 TYPE (Circle ap (BTEX) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard ar rease) CI) (SO4) (NO	Ferrous iron (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) 25.7 25.8 25.8 25.8 25.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Tool (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 532 534 535 535 534 NALYSIS AI 0) (8020) (N AH) (NWTPHetrivity) (TD: C) (Total PO- le) (WAD Cy) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.27 0.27 0.29 0.28 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	pH 6.53 6.53 6.53 6.53 6.53 CR BOTTLE (NWTPH-Gx) (PH-Dx) (TPH-Gx) (TUrbic dahl Nitroger (Cyanide) a) (Cd) (Co)	ORP (mV) -21.7 -21.9 -22.1 -22.3 -22.0 TYPE (Circle ap (BTEX) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard ar rease) CI) (SO4) (NO	Ferrous iron (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) 25.7 25.8 25.8 25.8 25.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Tool (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 532 534 535 535 534 NALYSIS AI 0) (8020) (N AH) (NWTPHetrivity) (TD: C) (Total PO- le) (WAD Cy) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.27 0.27 0.29 0.28 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	pH 6.53 6.53 6.53 6.53 6.53 CR BOTTLE (NWTPH-Gx) (PH-Dx) (TPH-Gx) (TUrbic dahl Nitroger (Cyanide) a) (Cd) (Co)	ORP (mV) -21.7 -21.9 -22.1 -22.3 -22.0 TYPE (Circle ap (BTEX) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard ar rease) CI) (SO4) (NO	Ferrous iron (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) 25.7 25.8 25.8 25.8 25.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Tool (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 532 534 535 535 534 NALYSIS AI 0) (8020) (N AH) (NWTPHetrivity) (TD: C) (Total PO- le) (WAD Cy) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.27 0.27 0.29 0.28 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	pH 6.53 6.53 6.53 6.53 6.53 CR BOTTLE (NWTPH-Gx) (PH-Dx) (TPH-Gx) (TUrbic dahl Nitroger (Cyanide) a) (Cd) (Co)	ORP (mV) -21.7 -21.9 -22.1 -22.3 -22.0 TYPE (Circle ap (BTEX) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard ar rease) CI) (SO4) (NO	Ferrous iron (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) 25.7 25.8 25.8 25.8 25.8 25.8 (8260) (8010) (8270D) (PA) (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 532 534 535 535 534 NALYSIS AI 0) (8020) (N AH) (NWTPHetrivity) (TD: C) (Total PO- le) (WAD Cy) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.27 0.27 0.29 0.28 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	pH 6.53 6.53 6.53 6.53 6.53 CR BOTTLE (NWTPH-Gx) (PH-Dx) (TPH-Gx) (TUrbic dahl Nitroger (Cyanide) a) (Cd) (Co)	ORP (mV) -21.7 -21.9 -22.1 -22.3 -22.0 TYPE (Circle ap (BTEX) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard ar rease) CI) (SO4) (NO	Ferrous iron (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) 25.7 25.8 25.8 25.8 25.8 25.8 (8260) (8010) (8270D) (PA) (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 532 534 535 535 534 NALYSIS AI 0) (8020) (N AH) (NWTPHetrivity) (TD: C) (Total PO- le) (WAD Cy) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.27 0.27 0.29 0.28 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	pH 6.53 6.53 6.53 6.53 6.53 CR BOTTLE (NWTPH-Gx) (PH-Dx) (TPH-Gx) (TUrbic dahl Nitroger (Cyanide) a) (Cd) (Co)	ORP (mV) -21.7 -21.9 -22.1 -22.3 -22.0 TYPE (Circle ap (BTEX) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard ar rease) CI) (SO4) (NO	Ferrous iron (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) 25.7 25.8 25.8 25.8 25.8 25.8 (8260) (8010) (8270D) (PA) (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 532 534 535 535 534 NALYSIS AI 0) (8020) (N AH) (NWTPHetrivity) (TD: C) (Total PO- le) (WAD Cy) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.27 0.27 0.29 0.28 LOWED PENTPH-G) (NWTP S) (TSS) (Bd) (Total Kievanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	pH 6.53 6.53 6.53 6.53 6.53 CR BOTTLE (NWTPH-Gx) (PH-Dx) (TPH-Gx) (TUrbic dahl Nitroger (Cyanide) a) (Cd) (Co)	ORP (mV) -21.7 -21.9 -22.1 -22.3 -22.0 TYPE (Circle ap (BTEX) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard ar rease) CI) (SO4) (NO	Ferrous iron (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 Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/12 /2021@	920		
Sample Nun	nber:	RGW189S-	210812		Weather:	SUNNY, 70S			
Landau Rep	resentative:	BXM							
WATER LEV	/EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES)	Damaged (N	(O)	Describe:	FLUSH		
DTW Before		7.16	Time:	•	Flow through ce			GW Meter No.(s	SLOPE 8
	Date/Time:		857	End Purge:	ě	8/ 12 /2021 @	010	Gallons Purged:	SLOIE 8
-		8/ 12 /2021	55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	ENIT CYCTEM
Purge water of	nsposed to:	-	55-gai Drum	<u> </u>	Storage Tank	□ Ground	- Other	SHE IREALMI	EINT STSTEIM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
						dings within the fo		>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
900	18.2	357.4	0.36	5.9	5.2		7.41		
903	18.7	345.7	0.36	6.06	-7.0		7.39		
906	19.1	334.0	0.36	6.14	-12.9		7.39		
909		328.9	0.43	6.18	-17.4	-			
-									
912	19.6	326.9	0.41	6.20	-19.6				
915	19.8	325.8	0.45	6.21	-21.6				
918	19.8	324.9	0.47	6.22	-22.9				
SAMPLE CO	LLECTION D	OATA							
Sample Colle	cted With:		Bailer		Pump/Pump Type	DED. BLADDER			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee	dure:	Alconox Was	sh 🗖	Tap Rinse	DI Water	Dedicated		_	
(By Numerica	al Order)	Other		•					
Sample Desc	,	₩	, sheen, etc.):	CLEAR, CO	LORLESS, NO C	DOR, NO SHEEN	, DARK FINES		
Sample Desc	,	₩	, sheen, etc.):	CLEAR, CO	LORLESS, NO C	DOR, NO SHEEN	, DARK FINES		
Sample Description Replicate	,	₩	D.O. (mg/L)	CLEAR, CO	ORP (mV)	DOR, NO SHEEN Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW		
Replicate	Temp (°F/°C)	Cond. (uS/cm) 324.6	D.O. (mg/L)	рН 6.22	ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 19.8	Cond. (uS/cm) 324.6	D.O. (mg/L) 0.48	рН 6.22 6.22	ORP (mV) -23.2 -23.3	Turbidity	DTW		
Replicate	Temp (°F/°C)	Cond. (uS/cm) 324.6	D.O. (mg/L)	рН 6.22	ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 19.8	Cond. (uS/cm) 324.6	D.O. (mg/L) 0.48	рН 6.22 6.22	ORP (mV) -23.2 -23.3	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 19.8 19.8	Cond. (uS/cm) 324.6 324.4	D.O. (mg/L) 0.48 0.47	pH 6.22 6.22 6.22	ORP (mV) -23.2 -23.3 -23.7	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 19.8 19.8 19.8 19.8	Cond. (uS/cm) 324.6 324.4 324.5 324.5	D.O. (mg/L) 0.48 0.47 0.48 0.48	6.22 6.22 6.22 6.22 6.22	ORP (mV) -23.2 -23.3 -23.7 -24.0 -23.6	Turbidity	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 19.8 19.8 19.8 19.8 19.8	Cond. (uS/cm) 324.6 324.4 324.5 324.5	D.O. (mg/L) 0.48 0.47 0.48 0.48	6.22 6.22 6.22 6.22 6.22 6.22	ORP (mV) -23.2 -23.3 -23.7 -24.0 -23.6 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 19.8 19.8 19.8 19.8 19.8 19.8 (8260) (8010	Cond. (uS/cm) 324.6 324.4 324.5 324.5 NALYSIS AI	D.O. (mg/L) 0.48 0.47 0.48 0.48 0.48 LOWED PE	6.22 6.22 6.22 6.22 6.22 6.22 CR BOTTLE	ORP (mV) -23.2 -23.3 -23.7 -24.0 -23.6 TYPE (Circle approximately (BTEX)	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 19.8 19.8 19.8 19.8 19.8 19.8 (8260) (8010) (8270D) (PA	Cond. (uS/cm) 324.6 324.6 324.4 324.5 324.5 NALYSIS AI 0) (8020) (NAH) (NWTPH	D.O. (mg/L) 0.48 0.47 0.48 0.48 0.48 LOWED PE	6.22 6.22 6.22 6.22 6.22 6.22 CR BOTTLE NWTPH-GX, PH-Dx) (TPH	ORP (mV) -23.2 -23.3 -23.7 -24.0 -23.6 TYPE (Circle approximately 1997) H-HCID) (8081)	Turbidity (NTU)	DTW (ft) non-standard ar	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 19.8 19.8 19.8 19.8 19.8 19.8 (8260) (8010) (8270D) (PA) (pH) (Condu	Cond. (uS/cm) 324.6 324.6 324.5 324.5 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS)	D.O. (mg/L) 0.48 0.47 0.48 0.48 0.48 CLOWED PENWTPH-G) (MWTPH-G) (MWTP	6.22 6.22 6.22 6.22 6.22 6.22 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GOD) (Turbio	ORP (mV) -23.2 -23.3 -23.7 -24.0 -23.6 TYPE (Circle approximately 1997) H-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & G	DTW (ft) non-standard ar	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 21 6	Temp (°F/°C) 19.8 19.8 19.8 19.8 19.8 (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 324.6 324.6 324.5 324.5 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS)	D.O. (mg/L) 0.48 0.47 0.48 0.48 0.48 LOWED PENWTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (TSS) (TSS) (E) (Total Kie	6.22 6.22 6.22 6.22 6.22 6.22 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-GX) CTurbic dahl Nitroger	ORP (mV) -23.2 -23.3 -23.7 -24.0 -23.6 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity)	Turbidity (NTU) pplicable or write (8141) (Oil & G	DTW (ft) non-standard ar	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 21 6	Temp (°F/°C) 19.8 19.8 19.8 19.8 19.8 19.8 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Too	Cond. (uS/cm) 324.6 324.6 324.4 324.5 NALYSIS AI 0) (8020) (N AH) (NWTPH detivity) (TDS C) (Total PO- de) (WAD Cy	D.O. (mg/L) 0.48 0.47 0.48 0.48 0.48 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free	6.22 6.22 6.22 6.22 6.22 6.22 CR BOTTLE NWTPH-Gx PH-Dx) (TPF BOD) (Turbic dahl Nitroger Cyanide)	ORP (mV) -23.2 -23.3 -23.7 -24.0 -23.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) (MH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G	DTW (ft) non-standard ar rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA O WA O WO (F)	Observations OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 21 6	Temp (°F/°C) 19.8 19.8 19.8 19.8 19.8 TYPICAL A (8260) (8010 (8270D) (PA (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 324.6 324.6 324.4 324.5 NALYSIS AI (0) (8020) (N AH) (NWTPH detivity) (TDS (C) (Total PO- (WAD Cy () (As) (Sb) (D.O. (mg/L) 0.48 0.47 0.48 0.48 0.48 LLOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.22 6.22 6.22 6.22 6.22 CR BOTTLE (NWTPH-Gx) (TPF GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -23.2 -23.3 -23.7 -24.0 -23.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard ar rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA ON (NO2) (F) TI) (V) (Zn) (Hg	Observations OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 21 6	Temp (°F/°C) 19.8 19.8 19.8 19.8 19.8 TYPICAL A (8260) (8010 (8270D) (PA (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 324.6 324.6 324.5 324.5 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 le) (WAD Cy de) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.48 0.47 0.48 0.48 0.48 LLOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.22 6.22 6.22 6.22 6.22 CR BOTTLE (NWTPH-Gx) (TPF GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -23.2 -23.3 -23.7 -24.0 -23.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard ar 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
Replicate 1 2 3 4 Average: QUANTITY 21 6	Temp (°F/°C) 19.8 19.8 19.8 19.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 324.6 324.6 324.5 324.5 NALYSIS AI 0) (8020) (N AH) (NWTPHetivity) (TDS C) (Total PO4 le) (WAD Cy de) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.48 0.47 0.48 0.48 0.48 LOWED PE WTPH-G) (NWTP S) (TSS) (B d) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.22 6.22 6.22 6.22 6.22 CR BOTTLE (NWTPH-Gx) (TPF GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -23.2 -23.3 -23.7 -24.0 -23.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard ar 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
Replicate 1 2 3 4 Average: QUANTITY 21 6	Temp (°F/°C) 19.8 19.8 19.8 19.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 324.6 324.6 324.5 324.5 NALYSIS AI (0) (8020) (N AH) (NWTPHetrivity) (TDS (C) (Total PO4 (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.48 0.47 0.48 0.48 0.48 LOWED PE WTPH-G) (NWTP S) (TSS) (B d) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.22 6.22 6.22 6.22 6.22 CR BOTTLE (NWTPH-Gx) (TPF GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -23.2 -23.3 -23.7 -24.0 -23.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard ar 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
Replicate 1 2 3 4 Average: QUANTITY 21 6	Temp (°F/°C) 19.8 19.8 19.8 19.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 324.6 324.6 324.5 324.5 NALYSIS AI (0) (8020) (N AH) (NWTPHetrivity) (TDS (C) (Total PO4 (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.48 0.47 0.48 0.48 0.48 LOWED PE WTPH-G) (NWTP S) (TSS) (B d) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.22 6.22 6.22 6.22 6.22 CR BOTTLE (NWTPH-Gx) (TPF GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -23.2 -23.3 -23.7 -24.0 -23.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard ar 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
Replicate 1 2 3 4 Average: QUANTITY 21 6	Temp (°F/°C) 19.8 19.8 19.8 19.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 324.6 324.6 324.5 324.5 NALYSIS AI (0) (8020) (N AH) (NWTPHetrivity) (TDS (C) (Total PO4 (e) (WAD Cy (e) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.48 0.47 0.48 0.48 0.48 LOWED PE WTPH-G) (NWTP S) (TSS) (B d) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.22 6.22 6.22 6.22 6.22 CR BOTTLE (NWTPH-Gx) (TPF GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -23.2 -23.3 -23.7 -24.0 -23.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard ar 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
Replicate 1 2 3 4 Average: QUANTITY 21 6	Temp (°F/°C) 19.8 19.8 19.8 19.8 19.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 324.6 324.6 324.5 324.5 NALYSIS AI 0) (8020) (NAH) (NWTPHetivity) (TDS C) (Total PO4- le) (WAD Cy 1) (As) (Sb) (etals) (As) (Sb g short list) lane Ethene Ac	D.O. (mg/L) 0.48 0.47 0.48 0.48 0.48 LLOWED PE WITH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca cetylene	pH 6.22 6.22 6.22 6.22 6.22 CR BOTTLE (NWTPH-Gx) (TPF GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -23.2 -23.3 -23.7 -24.0 -23.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard ar 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
Replicate 1 2 3 4 Average: QUANTITY 21 6 3 Duplicate San	Temp (°F/°C) 19.8 19.8 19.8 19.8 19.8 TYPICAL A (8260) (8010 (7000) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Ether) others mple No(s):	Cond. (uS/cm) 324.6 324.6 324.5 324.5 324.5 NALYSIS AI (0) (8020) (N (MH) (NWTPHetivity) (TDS (C) (Total PO- (de) (WAD Cy (de) (As) (Sb) ((etals) (As) (Sb) (anne Ethene Ac (MSMSD Loc	D.O. (mg/L) 0.48 0.47 0.48 0.48 0.48 0.48 LOWED PE WTPH-G) (MTPH-G)	pH 6.22 6.22 6.22 6.22 6.22 CR BOTTLE (NWTPH-Gx) (TPF GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -23.2 -23.3 -23.7 -24.0 -23.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard ar 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
Replicate 1 2 3 4 Average: QUANTITY 21 6	Temp (°F/°C) 19.8 19.8 19.8 19.8 19.8 TYPICAL A (8260) (8010 (7000) (TOO (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Ether) others mple No(s):	Cond. (uS/cm) 324.6 324.6 324.5 324.5 NALYSIS AI 0) (8020) (NAH) (NWTPHetivity) (TDS C) (Total PO4- le) (WAD Cy 1) (As) (Sb) (etals) (As) (Sb g short list) lane Ethene Ac	D.O. (mg/L) 0.48 0.47 0.48 0.48 0.48 0.48 LOWED PE WTPH-G) (MTPH-G)	pH 6.22 6.22 6.22 6.22 6.22 CR BOTTLE (NWTPH-Gx) (TPF GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -23.2 -23.3 -23.7 -24.0 -23.6 TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & Good (HCO3/CO3) (Oil (MO2) (Pb) (Mg) (Mn) (Ni) (Oil (Mg) (Mn) (Ni) (Mg) (Mn) (Mg) (Mg) (Mg) (Mg) (Mg) (Mg) (Mg) (Mg	DTW (ft) non-standard ar 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	ie:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	_
Event:		Aug-21			Date/Time:	8/ 12 /2021@	1102		
Sample Nun	nber:	RGW207S-	210812		Weather:	SUNNY, 80S			
Landau Rep	resentative:	BXM			•				
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Condition		Secure (YES)	Damaged (N	IO)	Describe:	FLUSH		
DTW Before	Purging (ft)	6.8	Time:	1034	Flow through cel	ll vol.		GW Meter No.(s	s SLOPE #8
	0 0 0	8/ 12 /2021	1036	End Purge:	•	8/ 12 /2021 @	1059	Gallons Purged:	-
Purge water d			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	ENT SYSTEM
Ü	•		-		-		_		
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
		ls: Stablizatio	n of Parame			dings within the fo	ollowing limits	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1039	20	381.1	0.31	6.39	2.9		6.74		
1042	20.9	412.1	0.29	6.46	-4.0		6.73		
1045	21.5	431.7	0.27	6.52	-8.4		6.7		
1048	21.7	442.8	0.23	6.51	-9.8		6.73		
1051	21.8	449.6	0.22	6.48	-10.9		0.75		
	-								
1054	21.9	453.2	0.24	6.47	-11.9				
1057	21.9	454.8	0.24	6.47	-12.6		·		
				,					
SAMPLE CO									
Sample Colle	cted With:		Bailer		Pump/Pump Type	_			
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							
Sample Descr	ription (color,	turbidity, odor	, sheen, etc.)	NO COLOR	, NO ODOR, NO	SHEEN, CLEAR			
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	21.9	454.7	0.23	6.46	-12.6				
2	21.9	454.7	0.23	6.46	-12.8				
3	21.9	455.3	0.24	6.46	-12.9				
	21.9		0.24	6.46			-		
4		455.2			-13.1				
Average:	21.9	455.0	0.24	6.46	-12.9		-		
QUANTITY	TYPICAL A	NALYSIS AL	LOWED PE	ER BOTTLE	TYPE (Circle ap	plicable or write	non-standard a	nalysis below)	
3	(8260) (801	0) (8020) (N	WTPH-G)	(NWTPH-Gx) (BTEX)			WA 🗆	OR 🗆
						(8141) (Oil & Gi		WA 🗆	OR 🗆
	u / (• / (/ \ / \	, ,	*/	(HCO3/CO3) (C	Cl) (SO4) (NC	03) (NO2) (F)	
	· / ·	le) (Total PO4	/		n) (NH3) (NO3/	NO2)			
					(Cr) (Cu) (Fe)	(Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (7 n) (H	a) (K) (Na)
				, , , , , ,		<u> </u>			Na) (Hardness) (Sili
	VOC (Boein) (24) (24) ((04)	(61) (64) (14) (1	o) (111g) (1111) (111)	(115) (34) (11) (1) (LLI) (11g) (11) (1	(1111 (1110 (111)
	,	nane Ethene A	etylene						
	others								
Duplicate Sar	nnle No(a):								
Comments:	ubic Mo(8):								
	DVC f					,	0.10.2021		
Signature:	BXM					Date:	8.12.2021		



Project Nam	e:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 12 /2021@	805		
Sample Num	nber:	RGW208S-	210812		Weather:	SUNNY, 70S			
Landau Repr	resentative:	BXM							
WATER LEV	EL/WELL/PU	IRGE DATA							
Well Condition	n:	Secure (YES)	Damaged (N	(O)	Describe:	FLUSH		
DTW Before	Purging (ft)	8.03	Time:	732	Flow through cel	ll vol.		GW Meter No.(s	SLOPE 8
Begin Purge:		8/ 12 /2021	739	End Purge:	Date/Time:	8/ 12 /2021 @	801	Gallons Purged:	1
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)	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	
742	19.5	574	0.86	6.35	-2.0		8.05		
745	20.7	546	1.17	6.35	-10.5		8.05		
748	21.2	549	1.32	6.36	-16.4		8.04		
751	21.7	553	1.33	6.36	-18.1		8.04		
754	22.0	557	1.55	6.35	-20.0				
-		560							
757	22.4		1.57	6.35	-22.5				
800	22.6	562	1.59	6.35	-24.0		· 		
SAMPLE CO			D "		D /D T	DI ADDED			
Sample Collec	cted With:	_	Bailer		Pump/Pump Type	_		<u> </u>	
Made of:	_	Stainless Stee	_	PVC	Teflon	Polyethylene	Other	☐ Dedicated	
Decon Proced		Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica									
	ŕ	Other							
	ŕ		, sheen, etc.):	COLORLES	S, NO ODOR, NO	O SHEEN, CLEAR			
Sample Descr	ŕ		, sheen, etc.):	COLORLES	S, NO ODOR, NO	O SHEEN, CLEAR Turbidity	DTW	Ferrous iron	Comments/
	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 1 2	Temp (°F/°C) 22.7	Cond. (uS/cm) 562	D.O. (mg/L) 1.55 1.54	pH 6.35 6.35	ORP (mV) -24.3	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 22.7 22.7	Cond. (uS/cm) 562 562 563	D.O. (mg/L) 1.55 1.54	pH 6.35 6.35 6.35	ORP (mV) -24.3 -24.5	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 22.7 22.7 22.7 22.8	Cond. (uS/cm) 562 563	D.O. (mg/L) 1.55 1.54 1.53	pH 6.35 6.35 6.35 6.35	ORP (mV) -24.3 -24.5 -24.8 -25.0	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 22.7 22.7	Cond. (uS/cm) 562 562 563	D.O. (mg/L) 1.55 1.54	pH 6.35 6.35 6.35	ORP (mV) -24.3 -24.5	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.7 22.7 22.7 22.8 22.7	Cond. (uS/cm) 562 563 563 NALYSIS AI	D.O. (mg/L) 1.55 1.54 1.53 1.53 1.54 LOWED PE	6.35 6.35 6.35 6.35 6.35 6.35	ORP (mV) -24.3 -24.5 -24.8 -25.0 -24.7 TYPE (Circle ap	Turbidity	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.7 22.7 22.8 22.7 TYPICAL A (8260) (8010	Cond. (uS/cm) 562 563 563 NALYSIS AI (0) (8020) (N	D.O. (mg/L) 1.55 1.54 1.53 1.54 LOWED PE	6.35 6.35 6.35 6.35 6.35 REPUTLE	ORP (mV) -24.3 -24.5 -24.8 -25.0 -24.7 TYPE (Circle apple) (BTEX)	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.7 22.7 22.8 22.7 TYPICAL A (8260) (8010 (8270D) (PA	Cond. (uS/cm) 562 563 563 563 NALYSIS AI 0) (8020) (NAH) (NWTPH	D.O. (mg/L) 1.55 1.54 1.53 1.54 LOWED PERMITPH-G) (NWTPH-G) (6.35 6.35 6.35 6.35 6.35 RR BOTTLE NWTPH-GX PH-Dx) (TPF	ORP (mV) -24.3 -24.5 -24.8 -25.0 -24.7 TYPE (Circle approximately 1975) H-HCID) (8081)	Turbidity (NTU) pplicable or write	DTW (ft) non-standard are	(Fe II) allysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.7 22.7 22.7 22.8 22.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 562 563 563 563 NALYSIS AL (0) (8020) (N (AH) (NWTPHetivity) (TDS)	D.O. (mg/L) 1.55 1.54 1.53 1.53 1.54 LOWED PERMYPH-G) (MYTPH-G) (NWTPH-G) (NWTPH-G) (MYTPH-G) (MYTPH	6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-Gx H-Dx) (TPH-OD) (Turbic	ORP (mV) -24.3 -24.5 -24.8 -25.0 -24.7 TYPE (Circle ap (BTEX) H-HCID) (8081) dity) (Alkalinity)	Turbidity (NTU) pplicable or write (8141) (Oil & Grotter) (HCO3/CO3) (0	DTW (ft) non-standard are	(Fe II) allysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.7 22.7 22.8 22.7 22.8 22.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 562 563 563 563 NALYSIS AI (2) (8020) (N (AH) (NWTPH (activity) (TDS)	D.O. (mg/L) 1.55 1.54 1.53 1.53 1.54 LOWED PERIVETH-G) (NWTPH-G) (NTG) (NTG) (NWTPH-G) (NTG) (NT	6.35 6.35 6.35 6.35 6.35 6.35 R BOTTLE NWTPH-Gx H-Dx) (TPH OD) (Turbidahl Nitroger	ORP (mV) -24.3 -24.5 -24.8 -25.0 -24.7 TYPE (Circle approximately 1975) H-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & Grotter) (HCO3/CO3) (0	DTW (ft) non-standard are	(Fe II) allysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.7 22.7 22.8 22.7 22.8 22.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 562 563 563 563 NALYSIS AI (2) (8020) (N (3H) (NWTPF (4ctivity) (TDS) (C) (Total PO4 (e) (WAD Cy	D.O. (mg/L) 1.55 1.54 1.53 1.53 1.54 LOWED PERIVERS (ED) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Total Kielanide) (Free	6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX PH-Dx) (TPF GOD) (Turbidahl Nitroger Cyanide)	ORP (mV) -24.3 -24.5 -24.8 -25.0 -24.7 TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) a) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & Gr (HCO3/CO3) (O	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA Solution WA Solution WA Solution WA Solution NO2) (F)	Observations OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.7 22.7 22.8 22.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 562 563 563 563 NALYSIS AI (D) (8020) (N AH) (NWTPF detivity) (TDS (C) (Total PO4 e) (WAD Cy () (As) (Sb) (D.O. (mg/L) 1.55 1.54 1.53 1.53 1.54 LOWED PE WTPH-G) (NWTP S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca	pH 6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX H-DX) (TPH DOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -24.3 -24.5 -24.8 -25.0 -24.7 TYPE (Circle apple (Circle	Turbidity (NTU) pplicable or write (8141) (Oil & Gi (HCO3/CO3) (Oil (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.7 22.7 22.8 22.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 562 563 563 563 NALYSIS AI (0) (8020) (N (H) (NWTPHetivity) (TDS (C) (Total PO4 (e) (WAD Cy () (As) (Sb) (Cetals) (As) (Sb) (Sb)	D.O. (mg/L) 1.55 1.54 1.53 1.53 1.54 LOWED PE WTPH-G) (NWTP S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca	pH 6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX H-DX) (TPH DOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -24.3 -24.5 -24.8 -25.0 -24.7 TYPE (Circle apple (Circle	Turbidity (NTU) pplicable or write (8141) (Oil & Gi (HCO3/CO3) (Oil (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and 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:	Temp (°F/°C) 22.7 22.7 22.8 22.7 22.8 22.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 562 563 563 563 NALYSIS AI (0) (8020) (N (H) (NWTPHetivity) (TDS (C) (Total PO4 (e) (WAD Cy () (As) (Sb) (Cetals) (As) (Sb) (Sb)	D.O. (mg/L) 1.55 1.54 1.53 1.53 1.54 LOWED PERWITPH-G) (MTPH-G) (NWTPH-G) (TSS) (Be) (Total Kie anide) (Free Ba) (Be) (Case anide) (Be) (Case anide) (Be) (Case anide) (Be) (Case anide) (Ba) (Ba) (Be) (Case anide) (Ba) (Ba) (Be) (Case anide) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba	pH 6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX H-DX) (TPH DOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -24.3 -24.5 -24.8 -25.0 -24.7 TYPE (Circle apple (Circle	Turbidity (NTU) pplicable or write (8141) (Oil & Gi (HCO3/CO3) (Oil (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and 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:	Temp (°F/°C) 22.7 22.7 22.8 22.7 22.8 22.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 562 563 563 563 NALYSIS AL () (8020) (N () (NWTPHetivity) (TDS (C) (Total PO4 (e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.55 1.54 1.53 1.53 1.54 LOWED PERWITPH-G) (MTPH-G) (NWTPH-G) (TSS) (Be) (Total Kie anide) (Free Ba) (Be) (Case anide) (Be) (Case anide) (Be) (Case anide) (Be) (Case anide) (Ba) (Ba) (Be) (Case anide) (Ba) (Ba) (Be) (Case anide) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba	pH 6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX H-DX) (TPH DOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -24.3 -24.5 -24.8 -25.0 -24.7 TYPE (Circle application of the company of the comp	Turbidity (NTU) pplicable or write (8141) (Oil & Gi (HCO3/CO3) (Oil (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and 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:	Temp (°F/°C) 22.7 22.7 22.8 22.7 22.8 22.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 562 563 563 563 NALYSIS AL () (8020) (N () (NWTPHetivity) (TDS (C) (Total PO4 (e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.55 1.54 1.53 1.53 1.54 LOWED PERWITPH-G) (MTPH-G) (NWTPH-G) (TSS) (Be) (Total Kie anide) (Free Ba) (Be) (Case anide) (Be) (Case anide) (Be) (Case anide) (Be) (Case anide) (Ba) (Ba) (Be) (Case anide) (Ba) (Ba) (Be) (Case anide) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba	pH 6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX H-DX) (TPH DOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -24.3 -24.5 -24.8 -25.0 -24.7 TYPE (Circle application of the company of the comp	Turbidity (NTU) pplicable or write (8141) (Oil & Gi (HCO3/CO3) (Oil (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and 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:	Temp (°F/°C) 22.7 22.7 22.8 22.7 22.8 22.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 562 563 563 563 NALYSIS AL () (8020) (N () (NWTPHetivity) (TDS (C) (Total PO4 (e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.55 1.54 1.53 1.53 1.54 LOWED PERWITPH-G) (MTPH-G) (NWTPH-G) (TSS) (Be) (Total Kie anide) (Free Ba) (Be) (Case anide) (Be) (Case anide) (Be) (Case anide) (Be) (Case anide) (Ba) (Ba) (Be) (Case anide) (Ba) (Ba) (Be) (Case anide) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba	pH 6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX H-DX) (TPH DOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -24.3 -24.5 -24.8 -25.0 -24.7 TYPE (Circle application of the company of the comp	Turbidity (NTU) pplicable or write (8141) (Oil & Gi (HCO3/CO3) (Oil (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and 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) 22.7 22.7 22.8 22.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 562 563 563 563 NALYSIS AL () (8020) (N () (NWTPHetivity) (TDS (C) (Total PO4 (e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.55 1.54 1.53 1.53 1.54 LOWED PERWITPH-G) (MTPH-G) (NWTPH-G) (TSS) (Be) (Total Kie anide) (Free Ba) (Be) (Case anide) (Be) (Case anide) (Be) (Case anide) (Be) (Case anide) (Ba) (Ba) (Be) (Case anide) (Ba) (Ba) (Be) (Case anide) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba	pH 6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX H-DX) (TPH DOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -24.3 -24.5 -24.8 -25.0 -24.7 TYPE (Circle application of the company of the comp	Turbidity (NTU) pplicable or write (8141) (Oil & Gi (HCO3/CO3) (Oil (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and 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 Duplicate San	Temp (°F/°C) 22.7 22.7 22.8 22.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 562 563 563 563 NALYSIS AL () (8020) (N () (NWTPHetivity) (TDS (C) (Total PO4 (e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.55 1.54 1.53 1.53 1.54 LOWED PERWITPH-G) (MTPH-G) (NWTPH-G) (TSS) (Be) (Total Kie anide) (Free Ba) (Be) (Case anide) (Be) (Case anide) (Be) (Case anide) (Be) (Case anide) (Ba) (Ba) (Be) (Case anide) (Ba) (Ba) (Be) (Case anide) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba	pH 6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX H-DX) (TPH DOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -24.3 -24.5 -24.8 -25.0 -24.7 TYPE (Circle application of the company of the comp	Turbidity (NTU) pplicable or write (8141) (Oil & Gi (HCO3/CO3) (Oil (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and 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) 22.7 22.7 22.8 22.7 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 562 563 563 563 NALYSIS AL () (8020) (N () (NWTPHetivity) (TDS (C) (Total PO4 (e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 1.55 1.54 1.53 1.53 1.54 LOWED PERWITPH-G) (MTPH-G) (NWTPH-G) (TSS) (Be) (Total Kie anide) (Free Ba) (Be) (Case anide) (Be) (Case anide) (Be) (Case anide) (Be) (Case anide) (Ba) (Ba) (Be) (Case anide) (Ba) (Ba) (Be) (Case anide) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba	pH 6.35 6.35 6.35 6.35 6.35 CR BOTTLE NWTPH-GX H-DX) (TPH DOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -24.3 -24.5 -24.8 -25.0 -24.7 TYPE (Circle application of the company of the comp	Turbidity (NTU) oplicable or write (8141) (Oil & Gr (HCO3/CO3) (Or NO2) (Pb) (Mg) (Mn) (Ni) (Or (Pb) (Mg) (Mn) (Mg) (Mn) (Ni) (Or (Pb) (Mg) (Mg) (Mg) (Mg) (Mg) (Mg) (Mg) (Mg	DTW (ft) non-standard and 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



	ne:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/10 /2021@	1115		
Sample Nun	nber:	RGW211S-	210810		Weather:	SUNNY, 70S			
Landau Repr	resentative:	BXM							
WATER LEV	/EL/WELL/PU	RGE DATA							
Well Condition		Secure (YES))	Damaged (N	O)	Describe:	Flush Mount		
DTW Before	Purging (ft)	10.73	Time:		Flow through cel	ll vol		GW Meter No.(s	SLOPE 8
Begin Purge:	0 0 0	8/ 10 /2021	1049	End Purge:	-	8/ 10 /2021 @	. 1112	Gallons Purged:	BEOLE 0
Purge water d			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	ENIT CVCTEM
i uige water u	nsposed to.		55-gai Diuiii		Storage Talik	Ш Oround	Other	SITE TREATMI	ENTSTSTEM
Т:	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) e 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	
1052	20.5	302.2	0.40	6.46	-55.2		10.83		
1055	20.7	290.1	0.35	6.54	-65.9		10.80		
							10.79		
1058		286.5	0.33	6.58	-69.1				
1101	21.0	283.5	0.31	6.60	-68.7		10.82		
1104	21.0	280.4	0.27	6.56	-67.1				
1107	20.9	277.9	0.25	6.55	-66.6				
1110	21.0	276.8	0.24	6.54	-67.9				
	-								
SAMPLE CO	LLECTION D	ATA							
Sample Collection			Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Stee	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Was	_	Tap Rinse	DI Water	Dedicated	<u> </u>	ш Бешешев	
(By Numerica	_	Other	nı 📋	Tap Killse	☐ DI Water	Dedicated			
	u Oruer)								
Sample Decer	rintion (color t	urbidity odor	sheen etc.):	BROWN TI	IRRID NO ODO	R NO SHEEN	•		
Sample Descr	ription (color, t	turbidity, odor	, sheen, etc.):	BROWN, TU	JRBID, NO ODO	R, NO SHEEN	•		
Sample Descr Replicate	ription (color, t	curbidity, odor	, sheen, etc.):	BROWN, TU	JRBID, NO ODO	R, NO SHEEN 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)	pН	ORP (mV)	Turbidity			
Replicate 1 2	Temp (°F/°C) 21.0	Cond. (uS/cm) 276.6 276.8	D.O. (mg/L) 0.24	pH 6.55 6.55	ORP (mV) -68.4 -68.3	Turbidity			
Replicate 1 2 3	Temp (°F/°C) 21.0 21.0 21.1	Cond. (uS/cm) 276.6 276.8 276.3	D.O. (mg/L) 0.24 0.24	pH 6.55 6.55 6.55	ORP (mV) -68.4 -68.3	Turbidity			
Replicate 1 2 3 4	Temp (°F/°C) 21.0 21.1 21.1	Cond. (uS/cm) 276.6 276.8 276.3	D.O. (mg/L) 0.24 0.24 0.25 0.23	pH 6.55 6.55 6.55 6.55	ORP (mV) -68.4 -68.3 -68.4 -68.6	Turbidity			
Replicate 1 2 3	Temp (°F/°C) 21.0 21.0 21.1	Cond. (uS/cm) 276.6 276.8 276.3	D.O. (mg/L) 0.24 0.24	pH 6.55 6.55 6.55	ORP (mV) -68.4 -68.3	Turbidity			
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.0 21.0 21.1 21.1 21.1	Cond. (uS/cm) 276.6 276.8 276.3 276.4 276.5	D.O. (mg/L) 0.24 0.25 0.23 0.24	pH 6.55 6.55 6.55 6.55 6.55	ORP (mV) -68.4 -68.3 -68.4 -68.6	Turbidity	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.0 21.0 21.1 21.1 TYPICAL A	Cond. (uS/cm) 276.6 276.8 276.3 276.4 276.5	D.O. (mg/L) 0.24 0.25 0.23 0.24 LOWED PE	pH 6.55 6.55 6.55 6.55 6.55 CR BOTTLE	ORP (mV) -68.4 -68.3 -68.4 -68.6 -78.4 TYPE (Circle ap	Turbidity (NTU)	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.0 21.1 21.1 21.1 TYPICAL A (8260) (8010	Cond. (uS/cm) 276.6 276.8 276.3 276.4 276.5 NALYSIS AL 0) (8020) (N	D.O. (mg/L) 0.24 0.25 0.23 0.24 LOWED PE	6.55 6.55 6.55 6.55 CR BOTTLE NWTPH-Gx)	ORP (mV) -68.4 -68.3 -68.4 -68.6 -68.4 TYPE (Circle ap (BTEX)	Turbidity (NTU)	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.0 21.0 21.1 21.1 21.1 TYPICAL A (8260) (8010 (8270) (PAE	Cond. (uS/cm) 276.6 276.8 276.3 276.4 276.5 NALYSIS AL (0) (8020) (NI) (NWTPH-I	D.O. (mg/L) 0.24 0.25 0.23 0.24 LOWED PE	6.55 6.55 6.55 6.55 6.55 CR BOTTLE NWTPH-Gx)	ORP (mV) -68.4 -68.3 -68.4 -68.6 -68.4 TYPE (Circle aportion (BTEX)) HCID) (8081) (Turbidity (NTU)	non-standard an	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.0 21.1 21.1 21.1 21.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu	Cond. (uS/cm) 276.6 276.8 276.3 276.4 276.5 NALYSIS AL 0) (8020) (N I) (NWTPH-lectivity) (TDS C) (Total PO4	D.O. (mg/L) 0.24 0.25 0.23 0.24 LOWED PER (WTPH-G) (D) (NWTPH (S) (TSS) (B) (Total Kie	6.55 6.55 6.55 6.55 6.55 R BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbio dahl Nitrogen	ORP (mV) -68.4 -68.3 -68.4 -68.6 -68.4 TYPE (Circle aportion (BTEX)) HCID) (8081) (Turbidity (NTU) 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) 21.0 21.0 21.1 21.1 21.1 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Conduction) (COD) (TOC) (Total Cyanid	Cond. (uS/cm) 276.6 276.8 276.3 276.4 276.5 NALYSIS AL (I) (NWTPH-Inctivity) (TDS) (T) (Total PO4) (e) (WAD Cy	D.O. (mg/L) 0.24 0.25 0.23 0.24 LOWED PE [WTPH-G) (D) (NWTPH S) (TSS) (B L) (Total Kie anide) (Free	6.55 6.55 6.55 6.55 6.55 RBOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbid dahl Nitrogen Cyanide)	ORP (mV) -68.4 -68.3 -68.4 -68.6 -68.4 TYPE (Circle aportion (BTEX) HCID) (8081) (Mits) (Alkalinity) (Mits) (NO3/10)	Turbidity (NTU) oplicable or write 8141) (Oil & Gre (HCO3/CO3) (6	non-standard an ase)	(Fe II) malysis below) WA WA Solution W	Observations OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.0 21.0 21.1 21.1 21.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals)	Cond. (uS/cm) 276.6 276.8 276.3 276.4 276.5 NALYSIS AL (US/CONT)	D.O. (mg/L) 0.24 0.25 0.23 0.24 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B E) (Total Kie anide) (Free Ba) (Be) (Ca	6.55 6.55 6.55 6.55 6.55 CR BOTTLE NWTPH-Gx) 1-Dx) (TPH-I COD) (Turbic dahl Nitrogen Cyanide) (1) (Cd) (Co)	ORP (mV) -68.4 -68.3 -68.4 -68.6 -68.4 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write 8141) (Oil & Green (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (non-standard an ase) CI) (SO4) (NO	(Fe II) malysis below) WA	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.0 21.0 21.1 21.1 21.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved Metals)	Cond. (uS/cm) 276.6 276.8 276.3 276.4 276.5 NALYSIS AL 0) (8020) (N I) (NWTPH-I ctivity) (TDS C) (Total PO4 e) (WAD Cy d) (As) (Sb) (Setals) (As) (Sb)	D.O. (mg/L) 0.24 0.25 0.23 0.24 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B E) (Total Kie anide) (Free Ba) (Be) (Ca	6.55 6.55 6.55 6.55 6.55 CR BOTTLE NWTPH-Gx) 1-Dx) (TPH-I COD) (Turbic dahl Nitrogen Cyanide) (1) (Cd) (Co)	ORP (mV) -68.4 -68.3 -68.4 -68.6 -68.4 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write 8141) (Oil & Green (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (non-standard an ase) CI) (SO4) (NO	(Fe II) malysis below) WA	Observations OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.0 21.0 21.1 21.1 21.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 276.6 276.8 276.3 276.4 276.5 NALYSIS AI (I) (NWTPH-Inctivity) (TDS) (C) (Total PO4) (e) (WAD Cy) (dAs) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.24 0.25 0.23 0.24 LOWED PE WTPH-G) (D) (NWTPH G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca	6.55 6.55 6.55 6.55 6.55 CR BOTTLE NWTPH-Gx) 1-Dx) (TPH-I COD) (Turbic dahl Nitrogen Cyanide) (1) (Cd) (Co)	ORP (mV) -68.4 -68.3 -68.4 -68.6 -68.4 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write 8141) (Oil & Green (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (non-standard an ase) CI) (SO4) (NO	(Fe II) malysis below) WA	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.0 21.0 21.1 21.1 21.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 276.6 276.8 276.3 276.4 276.5 NALYSIS AL 0) (8020) (N I) (NWTPH-I ctivity) (TDS C) (Total PO4 e) (WAD Cy d) (As) (Sb) (Setals) (As) (Sb)	D.O. (mg/L) 0.24 0.25 0.23 0.24 LOWED PE WTPH-G) (D) (NWTPH G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca	6.55 6.55 6.55 6.55 6.55 CR BOTTLE NWTPH-Gx) 1-Dx) (TPH-I COD) (Turbic dahl Nitrogen Cyanide) (1) (Cd) (Co)	ORP (mV) -68.4 -68.3 -68.4 -68.6 -68.4 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write 8141) (Oil & Green (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (non-standard an ase) CI) (SO4) (NO	(Fe II) malysis below) WA	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.0 21.0 21.1 21.1 21.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 276.6 276.8 276.3 276.4 276.5 NALYSIS AI (I) (NWTPH-Inctivity) (TDS) (C) (Total PO4) (e) (WAD Cy) (dAs) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.24 0.25 0.23 0.24 LOWED PE WTPH-G) (D) (NWTPH G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca	6.55 6.55 6.55 6.55 6.55 CR BOTTLE NWTPH-Gx) 1-Dx) (TPH-I COD) (Turbic dahl Nitrogen Cyanide) (1) (Cd) (Co)	ORP (mV) -68.4 -68.3 -68.4 -68.6 -68.4 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write 8141) (Oil & Green (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (non-standard an ase) CI) (SO4) (NO	(Fe II) malysis below) WA	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.0 21.0 21.1 21.1 21.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein Methane Eth	Cond. (uS/cm) 276.6 276.8 276.3 276.4 276.5 NALYSIS AI (I) (NWTPH-Inctivity) (TDS) (C) (Total PO4) (e) (WAD Cy) (dAs) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.24 0.25 0.23 0.24 LOWED PE WTPH-G) (D) (NWTPH G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca	6.55 6.55 6.55 6.55 6.55 CR BOTTLE NWTPH-Gx) 1-Dx) (TPH-I COD) (Turbic dahl Nitrogen Cyanide) (1) (Cd) (Co)	ORP (mV) -68.4 -68.3 -68.4 -68.6 -68.4 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write 8141) (Oil & Green (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (non-standard an ase) CI) (SO4) (NO	(Fe II) malysis below) WA	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.0 21.0 21.1 21.1 21.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein	Cond. (uS/cm) 276.6 276.8 276.3 276.4 276.5 NALYSIS AI (I) (NWTPH-Inctivity) (TDS) (C) (Total PO4) (e) (WAD Cy) (dAs) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L) 0.24 0.25 0.23 0.24 LOWED PE WTPH-G) (D) (NWTPH G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca	6.55 6.55 6.55 6.55 6.55 CR BOTTLE NWTPH-Gx) 1-Dx) (TPH-I COD) (Turbic dahl Nitrogen Cyanide) (1) (Cd) (Co)	ORP (mV) -68.4 -68.3 -68.4 -68.6 -68.4 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write 8141) (Oil & Green (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (non-standard an ase) CI) (SO4) (NO	(Fe II) malysis below) WA	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.0 21.0 21.1 21.1 21.1 TYPICAL A (8260) (8010 (8270) (PAH (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 276.6 276.8 276.3 276.4 276.5 NALYSIS AI (I) (8020) (N II) (NWTPH-Inctivity) (TDS (C) (Total PO4 e) (WAD Cy (MA) (Sb) (Setals) (As) (Sb g short list)	D.O. (mg/L) 0.24 0.25 0.23 0.24 LOWED PE WTPH-G) (D) (NWTPH G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca	6.55 6.55 6.55 6.55 6.55 CR BOTTLE NWTPH-Gx) 1-Dx) (TPH-I COD) (Turbic dahl Nitrogen Cyanide) (1) (Cd) (Co)	ORP (mV) -68.4 -68.3 -68.4 -68.6 -68.4 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write 8141) (Oil & Green (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (non-standard an ase) CI) (SO4) (NO	(Fe II) malysis below) WA	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 2	Temp (°F/°C) 21.0 21.0 21.1 21.1 21.1 TYPICAL A (8260) (8010 (8270) (PAH (PH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 276.6 276.8 276.3 276.4 276.5 NALYSIS AI (I) (8020) (N II) (NWTPH-Inctivity) (TDS (C) (Total PO4 e) (WAD Cy (MA) (Sb) (Setals) (As) (Sb g short list)	D.O. (mg/L) 0.24 0.25 0.23 0.24 LOWED PE WTPH-G) (D) (NWTPH G) (Total Kie anide) (Free Ba) (Be) (Ca) (Ba) (Be) (Ca	6.55 6.55 6.55 6.55 6.55 CR BOTTLE NWTPH-Gx) 1-Dx) (TPH-I COD) (Turbic dahl Nitrogen Cyanide) (1) (Cd) (Co)	ORP (mV) -68.4 -68.3 -68.4 -68.6 -68.4 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write 8141) (Oil & Green (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (non-standard an ase) CI) (SO4) (NO	(Fe II) malysis below) WA	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ne:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 10 /2021@	1250		
Sample Nun	nber:	RGW221S-	2108		Weather:	SUNNY, 80s			
Landau Rep	resentative:	BXM							
WATER LEV	EL/WELL/PU	RGE DATA							
Well Condition	on:	Secure (YES)	Damaged (N	O)	Describe:	Flush Mount		
DTW Before	Purging (ft)	10.87	Time:	1223	Flow through cel	l vol.		GW Meter No.(s	SLOPE 8
Begin Purge:	Date/Time:	8/ 10 /2021	1226	End Purge:	Date/Time:	8/ 10 /2021 @	1249	Gallons Purged:	1
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
	_					dings within the fo	_	>/= 1 flow	
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1229	21.7	244.4	0.78	6.34	-4.4		10.89		
1232	24.2	254.8	0.71	6.44	-19.1		10.87		
1235	24.7	257.9	0.79	6.45	-21.7		10.87		
1238	26.1	261.9	0.64	6.46	-23.2		10.87		
1241	26.4	263.0	0.56	6.48	-23.6				
1244	• •	264.0	0.48	6.45	-23.6				
	. ———								
1247	27.5	264.3	0.47	6.43	-23.1				
SAMPLE CO	LLECTION D	ATA							
Sample Colle			Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Wa	_	Tap Rinse	DI Water	Dedicated	₩		
(By Numerica			, <u> </u>	rup remse	□ D1a.c.	Bedieuted			
		II II Otner							
		Other turbidity, odor	, sheen, etc.):	CLEAR, NO	COLOR, NO OD	OR, NO SHEEN			
			, sheen, etc.):	CLEAR, NO	COLOR, NO OD	OOR, NO SHEEN			
			D.O. (mg/L)	CLEAR, NO	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	Temp	turbidity, odor	D.O.		ORP	Turbidity			
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity			
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.42	ORP (mV)	Turbidity			
Replicate 1 2	Temp (°F/°C) 27.5	Cond. (uS/cm) 264.1	D.O. (mg/L) 0.47	pH 6.42 6.42	ORP (mV) -23.0 -22.9	Turbidity			
Replicate 1 2 3	Temp (°F/°C) 27.5 27.5	Cond. (uS/cm) 264.1 264.2 264.3	D.O. (mg/L) 0.47 0.44	pH 6.42 6.42 6.42	ORP (mV) -23.0 -22.9	Turbidity			
Replicate 1 2 3 4 Average:	Temp (°F/°C) 27.5 27.5 27.6 27.5	Cond. (uS/cm) 264.1 264.2 264.3 264.0	D.O. (mg/L) 0.47 0.44 0.49 0.48	6.42 6.42 6.42 6.41 6.42	ORP (mV) -23.0 -22.9 -22.8 -22.8	Turbidity	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 27.5 27.5 27.6 27.5 TYPICAL A	Cond. (uS/cm) 264.1 264.2 264.3 264.0	D.O. (mg/L) 0.47 0.44 0.49 0.48 0.47	6.42 6.42 6.42 6.41 6.42	ORP (mV) -23.0 -22.9 -22.8 -22.8 -22.9 TYPE (Circle ap	Turbidity (NTU)	(ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 27.5 27.5 27.6 27.5 27.6 27.5 (8260) (8010 (8270) (PAF	Cond. (uS/cm) 264.1 264.2 264.3 264.0 264.2 NALYSIS AI ()) (8020) (NI) (NWTPH-	D.O. (mg/L) 0.47 0.44 0.49 0.48 0.47 LLOWED PE	6.42 6.42 6.41 6.42 RROTTLE NWTPH-Gx) -Dx) (TPH-	ORP (mV) -23.0 -22.9 -22.8 -22.8 -22.9 TYPE (Circle approximately continuous properties of the co	Turbidity (NTU) oplicable or write 8141) (Oil & Gre	non-standard ar	(Fe II) alysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 27.5 27.5 27.6 27.6 27.5 TYPICAL A (8260) (8010) (8270) (PAF (pH) (Condu	Cond. (uS/cm) 264.1 264.2 264.3 264.0 264.2 NALYSIS AI 0) (8020) (NI) (NWTPH-activity) (TD:	D.O. (mg/L) 0.47 0.44 0.49 0.48 0.47 LOWED PENWTPH-G) (MWTPH-G) (MWTPH	6.42 6.42 6.41 6.42 R BOTTLE NWTPH-Gx) -Dx) (TPH-I	ORP (mV) -23.0 -22.9 -22.8 -22.8 -22.9 TYPE (Circle ap (BTEX) HCID) (8081) (dity) (Alkalinity)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (6	non-standard ar	(Fe II) alysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 27.5 27.5 27.6 27.5 27.6 27.5 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu	Cond. (uS/cm) 264.1 264.2 264.3 264.0 264.2 NALYSIS AI () (8020) (NI) (NWTPH- detivity) (TD: C) (Total PO-	D.O. (mg/L) 0.47 0.44 0.49 0.48 0.47 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie	6.42 6.42 6.41 6.42 R BOTTLE NWTPH-Gx) -Dx) (TPH-IDD) (Turbio dahl Nitrogen	ORP (mV) -23.0 -22.9 -22.8 -22.8 -22.9 TYPE (Circle approximately continuous properties of the co	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (6	non-standard ar	(Fe II) alysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 27.5 27.5 27.5 27.6 27.5 27.6 27.5 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOO (Total Cyanid	Cond. (uS/cm) 264.1 264.2 264.3 264.0 264.2 NALYSIS AI 0) (8020) (NI) (NWTPH- dictivity) (TD: C) (Total PO- de) (WAD Cy	D.O. (mg/L) 0.47 0.44 0.49 0.48 0.47 LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie anide) (Free	6.42 6.42 6.41 6.42 6.41 6.42 R BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbio dahl Nitrogen Cyanide)	ORP (mV) -23.0 -22.9 -22.8 -22.8 -22.9 TYPE (Circle ap (BTEX) HCID) (8081) (dity) (Alkalinity) (a) (NH3) (NO3/	Turbidity (NTU) oplicable or write 8141) (Oil & Gre (HCO3/CO3) (O	non-standard arase)	(Fe II) nalysis below) WA WA Solution W	Observations OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 27.5 27.5 27.5 27.6 27.5 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 264.1 264.2 264.3 264.2 NALYSIS AI (INWTPH- (Intivity) (TD: (IC) (Total PO- (IC) (WAD Cy. (I) (As) (Sb) (D.O. (mg/L) 0.47 0.44 0.49 0.48 0.47 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.42 6.42 6.41 6.42 RR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -23.0 -22.9 -22.8 -22.8 -22.9 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (non-standard ar ase) 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) 27.5 27.5 27.5 27.6 27.5 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 264.1 264.2 264.3 264.2 NALYSIS AI () (8020) (NI) (NWTPH- lectivity) (TD: (C) (Total PO- e) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L) 0.47 0.44 0.49 0.48 0.47 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.42 6.42 6.41 6.42 RR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -23.0 -22.9 -22.8 -22.8 -22.9 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (6) NO2) (Pb) (Mg) (Mn) (non-standard ar ase) CI) (SO4) (NO	(Fe II)	Observations OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 27.5 27.5 27.6 27.5 27.6 27.5 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOd (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 264.1 264.2 264.3 264.2 NALYSIS AI () (8020) (NI) (NWTPH- lectivity) (TD: (C) (Total PO- e) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L) 0.47 0.44 0.49 0.48 0.47 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.42 6.42 6.41 6.42 RR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -23.0 -22.9 -22.8 -22.8 -22.9 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (6) NO2) (Pb) (Mg) (Mn) (non-standard ar ase) 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) 27.5 27.5 27.6 27.5 27.6 27.5 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOd (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 264.1 264.2 264.3 264.0 264.2 NALYSIS AI () (8020) (N I) (NWTPH- () (Total PO- (e) (WAD Cy () (As) (Sb) (g short list)	D.O. (mg/L) 0.47 0.44 0.49 0.48 0.47 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.42 6.42 6.41 6.42 RR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -23.0 -22.9 -22.8 -22.8 -22.9 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (6) NO2) (Pb) (Mg) (Mn) (non-standard ar ase) 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) 27.5 27.5 27.6 27.5 27.6 27.5 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOd (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 264.1 264.2 264.3 264.0 264.2 NALYSIS AI () (8020) (N I) (NWTPH- () (Total PO- (e) (WAD Cy () (As) (Sb) (g short list)	D.O. (mg/L) 0.47 0.44 0.49 0.48 0.47 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.42 6.42 6.41 6.42 RR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -23.0 -22.9 -22.8 -22.8 -22.9 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (6) NO2) (Pb) (Mg) (Mn) (non-standard ar ase) 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) 27.5 27.5 27.6 27.5 27.6 27.5 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOd (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 264.1 264.2 264.3 264.0 264.2 NALYSIS AI () (8020) (N I) (NWTPH- () (Total PO- (e) (WAD Cy () (As) (Sb) (g short list)	D.O. (mg/L) 0.47 0.44 0.49 0.48 0.47 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.42 6.42 6.41 6.42 RR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -23.0 -22.9 -22.8 -22.8 -22.9 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (6) NO2) (Pb) (Mg) (Mn) (non-standard ar ase) 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) 27.5 27.5 27.6 27.5 27.6 27.5 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 264.1 264.2 264.3 264.0 264.2 NALYSIS AI () (8020) (N I) (NWTPH- () (Total PO- (e) (WAD Cy () (As) (Sb) (g short list)	D.O. (mg/L) 0.47 0.44 0.49 0.48 0.47 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.42 6.42 6.41 6.42 RR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -23.0 -22.9 -22.8 -22.8 -22.9 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (6) NO2) (Pb) (Mg) (Mn) (non-standard ar ase) 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 Sar	Temp (°F/°C) 27.5 27.5 27.6 27.5 27.6 27.5 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 264.1 264.2 264.3 264.0 264.2 NALYSIS AI () (8020) (N I) (NWTPH- () (Total PO- (e) (WAD Cy () (As) (Sb) (g short list)	D.O. (mg/L) 0.47 0.44 0.49 0.48 0.47 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.42 6.42 6.41 6.42 RR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -23.0 -22.9 -22.8 -22.8 -22.9 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (6) NO2) (Pb) (Mg) (Mn) (non-standard ar ase) 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) 27.5 27.5 27.6 27.5 27.6 27.5 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 264.1 264.2 264.3 264.0 264.2 NALYSIS AI () (8020) (N I) (NWTPH- () (Total PO- (e) (WAD Cy () (As) (Sb) (g short list)	D.O. (mg/L) 0.47 0.44 0.49 0.48 0.47 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.42 6.42 6.41 6.42 RR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -23.0 -22.9 -22.8 -22.8 -22.9 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (Ni) (Do) (Mg) (Mn) (Ni)	non-standard ar ase) CI) (SO4) (NO	(Fe II)	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	e <u>:</u>	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 10 /2021@	1200		
Sample Num	nber:	RGW224S-	210810		Weather:	SUNNY, 70S			
Landau Repr	resentative:	BXM							
WATER LEV	'EL/WELL/PU	IRGE DATA							
Well Condition	n:	Secure (YES)	Damaged (N	O)	Describe:	Flush Mount		
DTW Before	Purging (ft)	11.4	Time:	1136	Flow through cel	l vol.		GW Meter No.(s	SLOPE 8
Begin Purge:		8/ 10 /2021	1137	End Purge:	_	8/ 10 /2021 @	1157	Gallons Purged:	
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	
1140	23.0	155.3	0.49	5.93	-2.0		11.50		
1143	23.5	174.4	0.33	6.06	-13.6		11.47		
1146	23.4	174.3	0.36	6.06	-14.2		11.47		
1149	23.5	174.2	0.30	6.06	-14.9		11.48		
1152	23.6	174.4	0.30	6.07	-15.4	-	11.46		
	. ———						11.40		
1155	23.6	175.0	0.28	6.08	-16.0				
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 Trumerica	i Oraer)	Other							
	· ·	—	, sheen, etc.):	CLEAR, CO	LORLESS, NO O	DOR, NO SHEEN			
Sample Descr	ription (color,	turbidity, odor	· / <u>-</u>			· · · · · · · · · · · · · · · · · · ·		Farmana inan	Commentel
	· ·	—	D.O. (mg/L)	CLEAR, CO	ORP	DOR, NO SHEEN Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
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) 175.9	D.O. (mg/L)	рН 6.08	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate 1 2	Temp (°F/°C) 23.6	Cond. (uS/cm) 175.9	D.O. (mg/L) 0.29	pH 6.08 6.08	ORP (mV) -15.8 -15.9	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm) 175.9	D.O. (mg/L)	рН 6.08	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate 1 2	Temp (°F/°C) 23.6	Cond. (uS/cm) 175.9	D.O. (mg/L) 0.29	pH 6.08 6.08	ORP (mV) -15.8 -15.9	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 23.6 23.6 23.6	Cond. (uS/cm) 175.9 176.6	D.O. (mg/L) 0.29 0.28	pH 6.08 6.08 6.08	ORP (mV) -15.8 -15.9	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6	Cond. (uS/cm) 175.9 176.6 177.4 178.2	D.O. (mg/L) 0.29 0.28 0.27 0.26 0.28	pH 6.08 6.08 6.08 6.08 6.08	ORP (mV) -15.8 -15.9 -16.2 -16.3	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6	Cond. (uS/cm) 175.9 176.6 177.4 178.2 177.0	D.O. (mg/L) 0.29 0.28 0.27 0.26 0.28	6.08 6.08 6.08 6.08 6.08	ORP (mV) -15.8 -15.9 -16.2 -16.3 -16.1 TYPE (Circle ap	Turbidity	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010	Cond. (uS/cm) 175.9 176.6 177.4 178.2 177.0 NALYSIS AI	D.O. (mg/L) 0.29 0.28 0.27 0.26 0.28 LOWED PE	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx)	ORP (mV) -15.8 -15.9 -16.2 -16.3 -16.1 TYPE (Circle ap (BTEX)	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010 (8270) (PAF	Cond. (uS/cm) 175.9 176.6 177.4 178.2 177.0 NALYSIS AI ()) (8020) (NI) (NWTPH-	D.O. (mg/L) 0.29 0.28 0.27 0.26 0.28 LOWED PE	6.08 6.08 6.08 6.08 6.08 RR BOTTLE NWTPH-Gx) -Dx) (TPH-	ORP (mV) -15.8 -15.9 -16.2 -16.3 -16.1 TYPE (Circle approximately (BTEX) HCID) (8081) (Turbidity (NTU)	DTW (ft)	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu	Cond. (uS/cm) 175.9 176.6 177.4 178.2 177.0 NALYSIS AI 0) (8020) (N I) (NWTPH- intivity) (TD:	D.O. (mg/L) 0.29 0.28 0.27 0.26 0.28 LOWED PENWTPH-G) (MWTPH-G) (MWTPH	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-I	ORP (mV) -15.8 -15.9 -16.2 -16.3 -16.1 TYPE (Circle approximately (BTEX) HCID) (8081) (Turbidity (NTU) pplicable or write (NTU) 8141) (Oil & Green (HCO3/CO3) (Oil & CO3)	DTW (ft)	(Fe II) nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Conduction) (TOC) (Total Cyanidal	Cond. (uS/cm) 175.9 176.6 177.4 178.2 177.0 NALYSIS AI (2) (8020) (N (4) (NWTPH- (4) (1014) (CC) (Total PO- (4) (WAD Cy	D.O. (mg/L) 0.29 0.28 0.27 0.26 0.28 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie anide) (Free	6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbid dahl Nitrogen Cyanide)	ORP (mV) -15.8 -15.9 -16.2 -16.3 -16.1 TYPE (Circle ap (BTEX) HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU) oplicable or write: 8141) (Oil & Gre (HCO3/CO3) (O	DTW (ft) non-standard and asse) Cl) (SO4) (NO	(Fe II) malysis below) WA WA Solution W	Observations OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 175.9 176.6 177.4 178.2 177.0 NALYSIS AI (b) (8020) (N (c) (NWTPH- detivity) (TDS (c) (Total PO4 (c) (As) (Sb) (D.O. (mg/L) 0.29 0.28 0.27 0.26 0.28 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-ICO) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -15.8 -15.9 -16.2 -16.3 -16.1 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (0) (NO2)	DTW (ft) non-standard an ase) 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:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 175.9 176.6 177.4 178.2 177.0 NALYSIS AI () (8020) (NI) (NWTPH- lectivity) (TDS C) (Total PO4- e) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (St	D.O. (mg/L) 0.29 0.28 0.27 0.26 0.28 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-ICO) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -15.8 -15.9 -16.2 -16.3 -16.1 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (0) (NO2)	DTW (ft) non-standard an ase) Cl) (SO4) (NO	(Fe II) malysis below) WA WA WA 3) (NO2) (F)	Observations OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 175.9 176.6 177.4 178.2 177.0 NALYSIS AI (NWTPH- activity) (TD: (C) (Total PO4 e) (WAD Cy (C) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.29 0.28 0.27 0.26 0.28 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-ICO) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -15.8 -15.9 -16.2 -16.3 -16.1 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (0) (NO2)	DTW (ft) non-standard an ase) 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:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 175.9 176.6 177.4 178.2 177.0 NALYSIS AI () (8020) (NI) (NWTPH- lectivity) (TDS C) (Total PO4- e) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (St	D.O. (mg/L) 0.29 0.28 0.27 0.26 0.28 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-ICO) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -15.8 -15.9 -16.2 -16.3 -16.1 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (0) (NO2)	DTW (ft) non-standard an ase) 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:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 175.9 176.6 177.4 178.2 177.0 NALYSIS AI (NWTPH- activity) (TD: (C) (Total PO4 e) (WAD Cy (C) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.29 0.28 0.27 0.26 0.28 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-ICO) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -15.8 -15.9 -16.2 -16.3 -16.1 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (0) (NO2)	DTW (ft) non-standard an ase) 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:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 175.9 176.6 177.4 178.2 177.0 NALYSIS AI (NWTPH- activity) (TD: (C) (Total PO4 e) (WAD Cy (C) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L) 0.29 0.28 0.27 0.26 0.28 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-ICO) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -15.8 -15.9 -16.2 -16.3 -16.1 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (0) (NO2)	DTW (ft) non-standard an ase) 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:	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 175.9 176.6 177.4 178.2 177.0 NALYSIS AI (WYPH- lectivity) (TDS (C) (Total PO- le) (WAD Cy (MAS) (Sb) (letals) (As) (Sb) (setals) (As) (set	D.O. (mg/L) 0.29 0.28 0.27 0.26 0.28 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Co cetylene	pH 6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co) Ca) (Cd) (Co)	ORP (mV) -15.8 -15.9 -16.2 -16.3 -16.1 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (0) (NO2)	DTW (ft) non-standard an ase) 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 2 Duplicate San	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010 (8270) (PAH (PH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 175.9 176.6 177.4 178.2 177.0 NALYSIS AI (WYPH- lectivity) (TDS (C) (Total PO- le) (WAD Cy (MAS) (Sb) (letals) (As) (Sb) (setals) (As) (set	D.O. (mg/L) 0.29 0.28 0.27 0.26 0.28 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co) Ca) (Cd) (Co)	ORP (mV) -15.8 -15.9 -16.2 -16.3 -16.1 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (0) (NO2)	DTW (ft) non-standard an ase) 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 2	Temp (°F/°C) 23.6 23.6 23.6 23.7 23.6 TYPICAL A (8260) (8010 (8270) (PAH (PH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 175.9 176.6 177.4 178.2 177.0 NALYSIS AI (WYPH- lectivity) (TDS (C) (Total PO- le) (WAD Cy (MAS) (Sb) (letals) (As) (Sb) (setals) (As) (set	D.O. (mg/L) 0.29 0.28 0.27 0.26 0.28 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Co cetylene	pH 6.08 6.08 6.08 6.08 6.08 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co) Ca) (Cd) (Co)	ORP (mV) -15.8 -15.9 -16.2 -16.3 -16.1 TYPE (Circle approximately (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (0) (NO2)	DTW (ft) non-standard an ase) 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	e:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 10 /2021@	1115		
Sample Num	nber:	RGW226S-	210810		Weather:	SUNNY 60'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)	9.79	Time:	1043	Flow through cel	ll vol.		GW Meter No.(s	SLOPE 2
Begin Purge:	Date/Time:	8/ 10 /2021	1050	End Purge:	Date/Time:	8/ 10 /2021 @	1112	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)	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	
1053	25.0	375.5	0.94	6.41	-52.3		9.79		
1056	25.6	401.4	0.52	6.43	-66.9		9.79		
1059	26.1	419.9	0.39	6.50	-84.7		9.79		
1102	26.4	427.7	0.37	6.54	-93.5		9.79		
1105	26.8	431.6	0.35	6.56	-98.5		9.79		
1108	27.2	432.5	0.39	6.57	-103.9		9.79		
									<u> </u>
1110	27.3	432.5	0.39	6.58	-107.1				
SAMPLE CO	LI ECTION D								
Sample Collect			Bailer		Pump/Pump Type	RI ADDER			
Made of:		Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Was	_	Tap Rinse		Dedicated	U Ouner	Dealcated	
			Sii 🔲	rap Kilise	DI Water	Dedicated			
LOV NUMERICA	(() rder)	II II ()ther							
(By Numerica Sample Descr		Other	sheen etc.):	LIGHT YEI	LOW LOW TUR	B NO ODOR NO	SHEEN		
		-	, sheen, etc.):	LIGHT YEL	LOW, LOW TUR	B, NO ODOR, NO	SHEEN		
	Temp	-	, sheen, etc.):	LIGHT YEL	LOW, LOW TUR	Turbidity	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 (mV)	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm) 432.3	D.O. (mg/L)	рН 6.58	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate 1 2	Temp (°F/°C) 27.4	Cond. (uS/cm) 432.3	D.O. (mg/L) 0.38 0.37	pH 6.58 6.58	ORP (mV) -107.2 -107.4	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 27.4 27.4 27.4 27.4	Cond. (uS/cm) 432.3 432.4 432.3 432.3	D.O. (mg/L) 0.38 0.37 0.36	pH 6.58 6.58 6.58 6.58	ORP (mV) -107.2 -107.4 -107.7 -108.1	Turbidity (NTU)	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 27.4 27.4 27.4 27.4 27.4	Cond. (uS/cm) 432.3 432.4 432.3 432.3 432.3	D.O. (mg/L) 0.38 0.37 0.36 0.38	pH 6.58 6.58 6.58 6.58 6.58	ORP (mV) -107.2 -107.4 -107.7 -108.1 -107.6	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 27.4 27.4 27.4 27.4 27.4 TYPICAL A	Cond. (uS/cm) 432.3 432.4 432.3 432.3 NALYSIS AI	D.O. (mg/L) 0.38 0.37 0.36 0.38 0.37	pH 6.58 6.58 6.58 6.58 6.58	ORP (mV) -107.2 -107.4 -107.7 -108.1 -107.6 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 27.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4	Cond. (uS/cm) 432.3 432.4 432.3 432.3 432.3 NALYSIS AI (8010) (8020	D.O. (mg/L) 0.38 0.37 0.36 0.38 0.37 LOWED PE 0) (NWTPH-	6.58 6.58 6.58 6.58 6.58 6.58 G.58 CR BOTTLE G) (NWTPF	ORP (mV) -107.2 -107.4 -107.7 -108.1 -107.6 TYPE (Circle ap	Turbidity (NTU) #DIV/0! oplicable or write	DTW (ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 27.4 27.4 27.4 27.4 27.4 27.4 27.4 (8260-SIM) (8270D) (PA	Cond. (uS/cm) 432.3 432.4 432.3 432.3 432.3 NALYSIS AI (8010) (8020)	D.O. (mg/L) 0.38 0.37 0.36 0.38 0.37 LOWED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTP	6.58 6.58 6.58 6.58 6.58 6.58 GR BOTTLE G) (NWTPHH-Dx) (TPH	ORP (mV) -107.2 -107.4 -107.7 -108.1 -107.6 TYPE (Circle application of the company of the	#DIV/0!	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 27.4 27.4 27.4 27.4 27.4 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 432.3 432.4 432.3 432.3 432.3 NALYSIS AI (8010) (8020) (H) (NWTPHetivity) (TD:	D.O. (mg/L) 0.38 0.37 0.36 0.38 0.37 LOWED PE 0) (NWTPH-H-D) (NWTPH-H-D	6.58 6.58 6.58 6.58 6.58 6.58 CR BOTTLE G) (NWTPHH-Dx) (TPHOD) (Turbic	ORP (mV) -107.2 -107.4 -107.7 -108.1 -107.6 TYPE (Circle application of the company of the	#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) 27.4 27.4 27.4 27.4 27.4 27.4 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 432.3 432.4 432.3 432.3 432.3 NALYSIS AI (8010) (8020) (H) (NWTPHetivity) (TD:	D.O. (mg/L) 0.38 0.37 0.36 0.38 0.37 LOWED PE D) (NWTPH-H-D)	6.58 6.58 6.58 6.58 6.58 6.59 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N	ORP (mV) -107.2 -107.4 -107.7 -108.1 -107.6 TYPE (Circle ap I-Gx) (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: QUANTITY 3	Temp (°F/°C) 27.4 27.4 27.4 27.4 27.4 27.4 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction) (TOC (Total Cyanid	Cond. (uS/cm) 432.3 432.4 432.3 432.3 432.3 NALYSIS AI (8010) (8020 AH) (NWTPH (1000) (TD) (25310C) (To) e) (WAD Cy	D.O. (mg/L) 0.38 0.37 0.36 0.38 0.37 LOWED PE D) (NWTPH-H-D)	6.58 6.58 6.58 6.58 6.58 6.59 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide)	ORP (mV) -107.2 -107.4 -107.7 -108.1 -107.6 TYPE (Circle application of the company of the	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6	DTW (ft) non-standard and arease) 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: QUANTITY 3	Temp (°F/°C) 27.4 27.4 27.4 27.4 27.4 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M.	Cond. (uS/cm) 432.3 432.4 432.3 432.3 432.3 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: 25310C) (To e) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L) 0.38 0.37 0.36 0.38 0.37 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To ranide) (Free Ba) (Be) (Ca	6.58 6.58 6.58 6.58 6.58 CR BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -107.2 -107.4 -107.7 -108.1 -107.6 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) ((NO3/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) 27.4 27.4 27.4 27.4 27.4 27.4 27.4 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 432.3 432.4 432.3 432.3 432.3 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TD: (5310C) (To: (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb; (g short list)	D.O. (mg/L) 0.38 0.37 0.36 0.38 0.37 LOWED PE D) (NWTPH-I-D)	6.58 6.58 6.58 6.58 6.58 CR BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -107.2 -107.4 -107.7 -108.1 -107.6 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) ((NO3/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) 27.4 27.4 27.4 27.4 27.4 27.4 27.4 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 432.3 432.4 432.3 432.3 432.3 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: 25310C) (To e) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L) 0.38 0.37 0.36 0.38 0.37 LOWED PE D) (NWTPH-I-D)	6.58 6.58 6.58 6.58 6.58 CR BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -107.2 -107.4 -107.7 -108.1 -107.6 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) ((NO3/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) 27.4 27.4 27.4 27.4 27.4 27.4 27.4 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 432.3 432.4 432.3 432.3 432.3 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TD: c5310C) (To: e) (WAD Cy) (As) (Sb) (etals) (As) (Sb; g short list)	D.O. (mg/L) 0.38 0.37 0.36 0.38 0.37 LOWED PE D) (NWTPH-I-D)	6.58 6.58 6.58 6.58 6.58 CR BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -107.2 -107.4 -107.7 -108.1 -107.6 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) ((NO3/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) 27.4 27.4 27.4 27.4 27.4 TYPICAL A (8260-SIM) (8270D) (PA (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 432.3 432.4 432.3 432.3 432.3 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TD: c5310C) (To: e) (WAD Cy) (As) (Sb) (etals) (As) (Sb; g short list)	D.O. (mg/L) 0.38 0.37 0.36 0.38 0.37 LOWED PE D) (NWTPH-I-D)	6.58 6.58 6.58 6.58 6.58 CR BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -107.2 -107.4 -107.7 -108.1 -107.6 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) ((NO3/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) 27.4 27.4 27.4 27.4 27.4 27.4 27.4 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 432.3 432.4 432.3 432.3 432.3 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TD: c5310C) (To: e) (WAD Cy) (As) (Sb) (etals) (As) (Sb; g short list)	D.O. (mg/L) 0.38 0.37 0.36 0.38 0.37 LOWED PE D) (NWTPH-I-D)	6.58 6.58 6.58 6.58 6.58 CR BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -107.2 -107.4 -107.7 -108.1 -107.6 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) ((NO3/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) 27.4 27.4 27.4 27.4 27.4 TYPICAL A (8260-SIM) (8270D) (PA (COD) (TOC) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 432.3 432.4 432.3 432.3 432.3 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TD: c5310C) (To: e) (WAD Cy) (As) (Sb) (etals) (As) (Sb; g short list)	D.O. (mg/L) 0.38 0.37 0.36 0.38 0.37 LOWED PE D) (NWTPH-I-D)	6.58 6.58 6.58 6.58 6.58 CR BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -107.2 -107.4 -107.7 -108.1 -107.6 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) ((NO3/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) 27.4 27.4 27.4 27.4 27.4 TYPICAL A (8260-SIM) (8270D) (PA (COD) (TOC) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 432.3 432.4 432.3 432.3 432.3 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TD: c5310C) (To: e) (WAD Cy) (As) (Sb) (etals) (As) (Sb; g short list)	D.O. (mg/L) 0.38 0.37 0.36 0.38 0.37 LOWED PE D) (NWTPH-I-D)	6.58 6.58 6.58 6.58 6.58 CR BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -107.2 -107.4 -107.7 -108.1 -107.6 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) ((NO3/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON O	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:		Aug-21			Date/Time:	8/ 10 /2021@	1555		
Sample Nur	nber:	RGW230I-	210810		Weather:	SUNNY, 80s			
Landau Rep	resentative:	BXM/AHA	<u>.</u>		·				
WATER LEV	VEL/WELL/PU	IRGE DATA							
Well Conditi		Secure (YES)	Damaged (N	(O)	Describe:	FLUSH		
DTW Before		8.02	Time:		Flow through ce		120011	GW Meter No.(c SI ODE 8
	Date/Time:			End Purge:	•	8/ 10 /2021 @	. 1552	Gallons Purged:	S SLOFE 8
Purge water of		8/ 10 /2021	55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	ENT CVCTEM
Turge water t	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	()	dings within the fo		>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1533	22.7	307	0.41	6.08	-3.3		8.03		
1536	24.6	372	0.45	6.22	-18		8.00		
1539		403.3	0.37	6.31	-29.9		8.00		
					-		0.00		
1542		424.7	0.36	6.33	-36.3		-		
1545	25.3	427.1	0.36	6.33	-38.1				
1548	25.4	427.3	0.35	6.32	-39.1				
SAMPLE CO	LLECTION D	OATA							
Sample Colle	cted With:		Bailer		Pump/Pump Type	BLADDER			
Made of:		Stainless Ste	el	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proce	dure:	Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	al Order)	Other							
Sample Desc	ription (color,	turbidity, odoi	, sheen, etc.):	CLEAR, CO	LORLESS, NO C	DOR, NO 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	25.3	427.1	0.36	6.32	-39.1				
2	25.3	426.9	0.35	6.32	-39.3				
3	25.3	426.7	0.36	6.33	-39.2		-		
				6.32	-39.2				
4	25.2	426.5	0.36						
Average:	25.3	426.8	0.36	6.32	-39.2				
QUANTITY	TYPICAL A	NALYSIS AI	LLOWED PE	ER BOTTLE	TYPE (Circle ap	plicable or write	non-standard a	nalysis below)	
3	`		, , ,		WTPH-Gx) (BT			WA 🗆	OR 🗆
						8141) (Oil & Gre		WA 🗆	OR 🗆
	· · ·	•/	/ \ / \		*/ ` */	(HCO3/CO3) (C	Cl) (SO4) (NC	93) (NO2) (F)	
	<u> </u>		`		hl Nitrogen) (NF	13) (NO3/NO2)			
	` •	le) (WAD Cy			(Cr) (Cu) (Fa)	(Pb) (Mg) (Mn) (Ni) (Ag) (Sg) (Tl) (V) (7 n) (U	(x) (V) (No)
		, , , , , , ,							Na) (Hardness) (Silio
	VOC (Boein		, (Du) (DC) (-u, (-u, (-u)	(51) (54) (16) (1	, (1115) (1111) (111)	(. 15) (30) (11) (V	, (zm, (115) (IX) () (Haraness) (Sille
	`	nane Ethene A	cetylene						
	others								
D1'	1. 37. ()								
Duplicate Sa	mpie No(s):								
Comments:									
Signature:	BXM					Date	8.10.2010		



Project Nam	e:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 10 /2021@	935		
Sample Num	nber:	RGW232S-	210810		Weather:	SUNNY 60'S			
Landau Repr	resentative:	AHA							
WATER LEV	'EL/WELL/PU	IRGE DATA							
Well Condition	on:	Secure (YES)	Damaged (N	O)	Describe:	FLUSHMOUN	T	
DTW Before	Purging (ft)	7.77	Time:	908	Flow through cel	ll vol.		GW Meter No.(s	SLOPE 2
Begin Purge:		8/ 10 /2021	910	End Purge:	_	8/ 10 /2021 @	932	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 mV	+/- 10%	< 0.3 ft	through cell	
913	21.9	530	2.23	6.22	-41.3		8.08		
916	23.0	562	1.68	6.24	-41.2		8.15		
919	23.2	569	1.56	6.25	-41.3		8.15		
922	23.5	547	1.50	6.26	-43.1		8.15		
925	23.6	588	1.47	6.28	-46.8		8.15		
928	23.8	597	1.41	6.29	-51.4				
							· 		<u> </u>
930	24.0	603	1.28	6.29	-56.6	-			
SAMPLE CO	LI ECTION D								
Sample Collection			Bailer		Pump/Pump Type	RI ADDER			
Made of:	cica wiiii.	Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Was	_	Tap Rinse		Dedicated	U Ouner	Dealcated	
			SII [rap Kilise	DI Water	Dedicated			
	(() rder)	II II ()ther							
(By Numerica Sample Descr	· ·	Other	sheen etc.):	NO COLOR	LOW TURB NO	O ODOR NO SHE	FN		
, •	· ·	-	, sheen, etc.):	NO COLOR	, LOW TURB, NO	O ODOR, NO SHE	EN		
	Temp	-	p.O.	NO COLOR	, LOW TURB, NO	Turbidity	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 (mV)	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.30	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate 1 2	Temp (°F/°C) 24.0 24.1	Cond. (uS/cm) 604	D.O. (mg/L) 1.28	pH 6.30 6.29	ORP (mV) -57.0 -57.6	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 24.0 24.1 24.1	Cond. (uS/cm) 604 604 604	D.O. (mg/L) 1.28 1.28 1.26	pH 6.30 6.29 6.30 6.29	ORP (mV) -57.0 -57.6 -57.8 -57.9	Turbidity (NTU)	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 24.0 24.1 24.1 24.1	Cond. (uS/cm) 604 604 604 604	D.O. (mg/L) 1.28 1.28 1.26 1.25	6.30 6.29 6.30 6.29 6.30	ORP (mV) -57.0 -57.6 -57.8 -57.9	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 24.0 24.1 24.1 24.1 TYPICAL A	Cond. (uS/cm) 604 604 604 604 NALYSIS AI	D.O. (mg/L) 1.28 1.28 1.26 1.25 1.27	6.30 6.29 6.30 6.29 6.30 6.29	ORP (mV) -57.0 -57.6 -57.8 -57.9 -57.6 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 24.0 24.1 24.1 24.1 24.1 TYPICAL A' (8260-SIM)	Cond. (uS/cm) 604 604 604 604 8010 (8020	D.O. (mg/L) 1.28 1.28 1.26 1.25 1.27 LOWED PE	6.30 6.29 6.30 6.29 6.30 6.29 6.30 6.29 6.30 CR BOTTLE G) (NWTPF	ORP (mV) -57.0 -57.6 -57.8 -57.9 -57.6 TYPE (Circle appl-Gx) (BTEX)	Turbidity (NTU) #DIV/0! oplicable or write	DTW (ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 24.0 24.1 24.1 24.1 24.1 TYPICAL A (8260-SIM) (8270D) (PA	Cond. (uS/cm) 604 604 604 604 604 8010 (8020 KH) (NWTPF	D.O. (mg/L) 1.28 1.28 1.26 1.25 1.27 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D)	6.30 6.29 6.30 6.29 6.30 CR BOTTLE G) (NWTPF	ORP (mV) -57.0 -57.6 -57.8 -57.9 -57.6 TYPE (Circle apolity (BTEX) I-HCID) (8081)	#DIV/0! pplicable or write (8141) (Oil & G	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 24.0 24.1 24.1 24.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 604 604 604 604 804 604 (8010) (8020 6H) (NWTPHectivity) (TD:	D.O. (mg/L) 1.28 1.28 1.26 1.25 1.27 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D	6.30 6.29 6.30 6.29 6.30 6.29 6.30 CR BOTTLE G) (NWTPFPH-Dx) (TPFBOD) (Turbio	ORP (mV) -57.0 -57.6 -57.8 -57.9 -57.6 TYPE (Circle apolity (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) 24.0 24.1 24.1 24.1 24.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 604 604 604 604 804 604 (8010) (8020 6H) (NWTPHectivity) (TD:	D.O. (mg/L) 1.28 1.28 1.26 1.25 1.27 LOWED PE D) (NWTPH-H-D)	6.30 6.29 6.30 6.29 6.30 6.29 6.30 CR BOTTLE G) (NWTPF H-Dx) (TPF HOD) (Turbic tal Kiedahl N	ORP (mV) -57.0 -57.6 -57.8 -57.9 -57.6 TYPE (Circle ap I-Gx) (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: QUANTITY 3	Temp (°F/°C) 24.0 24.1 24.1 24.1 24.1 24.1 (8260-SIM) (8270D) (PA(pH) (Conduction) (Too	Cond. (uS/cm) 604 604 604 604 604 8010) (8020 8H) (NWTPH 1ctivity) (TD: 25310C) (To e) (WAD Cy	D.O. (mg/L) 1.28 1.26 1.25 1.27 LOWED PE D) (NWTPH-H-D) (NWTP	6.30 6.29 6.30 6.29 6.30 6.29 6.30 CR BOTTLE G) (NWTPF H-Dx) (TPF HOD) (Turbic tal Kiedahl N Cyanide)	ORP (mV) -57.0 -57.6 -57.8 -57.9 -57.6 TYPE (Circle application (BTEX) (BTEX) I-HCID) (8081) dity) (Alkalinity) (itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (6	DTW (ft) non-standard and rease) CI) (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: QUANTITY 3	Temp (°F/°C) 24.0 24.1 24.1 24.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M.	Cond. (uS/cm) 604 604 604 604 604 NALYSIS AI (8010) (8020 AH) (NWTPH lectivity) (TD: 25310C) (To e) (WAD Cy) (As) (Sb) (etals) (As) (St)	D.O. (mg/L) 1.28 1.26 1.25 1.27 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Togranide) (Free Ba) (Be) (Caranide) (Caranid	6.30 6.29 6.30 6.29 6.30 6.29 6.30 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) -57.0 -57.6 -57.8 -57.9 -57.6 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (0 (NO3/NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) 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) 24.0 24.1 24.1 24.1 24.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 604 604 604 604 604 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TD: c5310C) (To: e) (WAD Cy) (As) (Sb) (etals) (As) (Sb	D.O. (mg/L) 1.28 1.28 1.26 1.25 1.27 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To ranide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.30 6.29 6.30 6.29 6.30 6.29 6.30 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) -57.0 -57.6 -57.8 -57.9 -57.6 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (0 (NO3/NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) 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) 24.0 24.1 24.1 24.1 24.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 604 604 604 604 604 NALYSIS AI (8010) (8020 AH) (NWTPH lectivity) (TD: 25310C) (To e) (WAD Cy) (As) (Sb) (etals) (As) (St)	D.O. (mg/L) 1.28 1.28 1.26 1.25 1.27 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To ranide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.30 6.29 6.30 6.29 6.30 6.29 6.30 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) -57.0 -57.6 -57.8 -57.9 -57.6 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (0 (NO3/NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) 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) 24.0 24.1 24.1 24.1 24.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 604 604 604 604 604 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TD: c5310C) (To: e) (WAD Cy) (As) (Sb) (etals) (As) (Sb	D.O. (mg/L) 1.28 1.28 1.26 1.25 1.27 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To ranide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.30 6.29 6.30 6.29 6.30 6.29 6.30 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) -57.0 -57.6 -57.8 -57.9 -57.6 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (0 (NO3/NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) 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) 24.0 24.1 24.1 24.1 24.1 24.1 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 604 604 604 604 604 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TD: c5310C) (To: e) (WAD Cy) (As) (Sb) (etals) (As) (Sb	D.O. (mg/L) 1.28 1.28 1.26 1.25 1.27 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To ranide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.30 6.29 6.30 6.29 6.30 6.29 6.30 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) -57.0 -57.6 -57.8 -57.9 -57.6 TYPE (Circle application (BTEX) (BTEX) I-HCID) (8081) dity) (Alkalinity) (itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (0 (NO3/NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) 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) 24.0 24.1 24.1 24.1 24.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 604 604 604 604 604 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TD: c5310C) (To: e) (WAD Cy) (As) (Sb) (etals) (As) (Sb	D.O. (mg/L) 1.28 1.28 1.26 1.25 1.27 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To ranide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.30 6.29 6.30 6.29 6.30 6.29 6.30 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) -57.0 -57.6 -57.8 -57.9 -57.6 TYPE (Circle application (BTEX) (BTEX) I-HCID) (8081) dity) (Alkalinity) (itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (0 (NO3/NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) 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) 24.0 24.1 24.1 24.1 24.1 24.1 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 604 604 604 604 604 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TD: c5310C) (To: e) (WAD Cy) (As) (Sb) (etals) (As) (Sb	D.O. (mg/L) 1.28 1.28 1.26 1.25 1.27 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To ranide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.30 6.29 6.30 6.29 6.30 6.29 6.30 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) -57.0 -57.6 -57.8 -57.9 -57.6 TYPE (Circle application (BTEX) (BTEX) I-HCID) (8081) dity) (Alkalinity) (itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (0 (NO3/NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) 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) 24.0 24.1 24.1 24.1 24.1 24.1 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 604 604 604 604 604 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TD: c5310C) (To: e) (WAD Cy) (As) (Sb) (etals) (As) (Sb	D.O. (mg/L) 1.28 1.28 1.26 1.25 1.27 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To ranide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.30 6.29 6.30 6.29 6.30 6.29 6.30 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV) -57.0 -57.6 -57.8 -57.9 -57.6 TYPE (Circle application (BTEX) (BTEX) I-HCID) (8081) dity) (Alkalinity) (itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G) (HCO3/CO3) (0 (NO3/NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) WA WA ON O	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:		Aug-21			Date/Time:	8/ 10 /2021@	1430		
Sample Num	nber:	RGW234S-	210810		Weather:	SUNNY 80'S			
Landau Repr	resentative:	AHA							
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Conditio	n:	Secure (YES)	Damaged (N	(O)	Describe:	FLUSHMOUN	ΙΤ	
DTW Before l	Purging (ft)	8.62	Time:		Flow through ce	ll vol.		GW Meter No.(s	SLOPE 2
Begin Purge:			1406	End Purge:	-	8/ 10 /2021 @	1428	Gallons Purged:	0.25
Purge water d			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	
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	
1409	21.8	272.9	0.85	6.15	-17.5		8.62		
1412	22.5	270.5	0.63	6.16	-20.7		8.62		
1415	23.4	263.6	0.56	6.16	-24.1		8.62		
1418	23.8	260.5	0.56	6.20	-29.1		8.62		
1421	24.0	255.9	0.53	6.22	-31.4		8.62		
1424	24.1	253.1	0.56	6.23	-32.4		8.62		
1426	24.1	252.4	0.63	6.23	-32.9				
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 Oudou)								
(-)	i Oraer)	Other					•		
		-	, sheen, etc.):	NOCOLOR,	LOW-MED TUR	B, NO ODOR, NO	SHEEN		
Sample Descr	iption (color,	turbidity, odor						Farrous iron	Comments/
		-	D.O. (mg/L)	NOCOLOR,	ORP (mV)	B, NO ODOR, NO Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	Temp	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm) 252.3	D.O. (mg/L)	рН 6.23	ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 24.1	Cond. (uS/cm) 252.3	D.O. (mg/L) 0.60	pH 6.23 6.23	ORP (mV) -32.7 -32.6	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 24.1 24.1	Cond. (uS/cm) 252.3 252.1	D.O. (mg/L) 0.60 0.59	pH 6.23 6.23 6.23	ORP (mV) -32.7 -32.6 -32.7	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 24.1	Cond. (uS/cm) 252.3	D.O. (mg/L) 0.60	pH 6.23 6.23	ORP (mV) -32.7 -32.6	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 24.1 24.1	Cond. (uS/cm) 252.3 252.1	D.O. (mg/L) 0.60 0.59	pH 6.23 6.23 6.23	ORP (mV) -32.7 -32.6 -32.7	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 24.1 24.1 24.2 24.1	Cond. (uS/cm) 252.3 252.3 252.1 251.9 252.2	D.O. (mg/L) 0.60 0.59 0.61 0.59	6.23 6.23 6.23 6.22 6.22	ORP (mV) -32.7 -32.6 -32.7 -32.8 -32.7	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 24.1 24.1 24.2 24.1 TYPICAL A	Cond. (uS/cm) 252.3 252.3 252.1 251.9 252.2	D.O. (mg/L) 0.60 0.59 0.61 0.59 0.60	6.23 6.23 6.23 6.22 6.22	ORP (mV) -32.7 -32.6 -32.7 -32.8 -32.7 TYPE (Circle a)	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 24.1 24.1 24.2 24.1 TYPICAL A (8260-SIM)	Cond. (uS/cm) 252.3 252.1 251.9 252.2 NALYSIS AI (8010) (8020	D.O. (mg/L) 0.60 0.59 0.61 0.59 0.60 LOWED PE	6.23 6.23 6.23 6.22 6.22 6.23 RR BOTTLE G) (NWTPF	ORP (mV) -32.7 -32.6 -32.7 -32.8 -32.7 TYPE (Circle all-Gx) (BTEX)	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 24.1 24.1 24.2 24.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 252.3 252.1 251.9 252.2 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD:	D.O. (mg/L) 0.60 0.59 0.61 0.59 0.60 LOWED PE 0) (NWTPH-H-D) (NWTPH-H-D	6.23 6.23 6.23 6.22 6.23 6.29 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20	ORP (mV) -32.7 -32.6 -32.7 -32.8 -32.7 TYPE (Circle apolity) (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:	Temp (°F/°C) 24.1 24.1 24.2 24.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction) (TOO	Cond. (uS/cm) 252.3 252.1 251.9 252.2 NALYSIS AI (8010) (8020 AH) (NWTPH detivity) (TD: C5310C) (To	D.O. (mg/L) 0.60 0.59 0.61 0.59 0.60 LOWED PE D) (NWTPH-I-D)	6.23 6.23 6.22 6.22 6.23 R BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbio tal Kiedahl N	ORP (mV) -32.7 -32.6 -32.7 -32.8 -32.7 TYPE (Circle apolity (BTEX) H-Gx) (BTEX)	#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) 24.1 24.1 24.2 24.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction) (Tool (Total Cyanid)	Cond. (uS/cm) 252.3 252.1 251.9 252.2 NALYSIS AI (8010) (8020 AH) (NWTPH (1000) (TD) 25310C) (To) le) (WAD Cy	D.O. (mg/L) 0.60 0.59 0.61 0.59 0.60 LOWED PE D) (NWTPH-H-D)	6.23 6.23 6.22 6.22 6.23 R BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide)	ORP (mV) -32.7 -32.6 -32.7 -32.8 -32.7 TYPE (Circle all H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & G.) (HCO3/CO3) (0 (NO3/NO2)	DTW (ft) non-standard and rease) CI) (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: QUANTITY 3	Temp (°F/°C) 24.1 24.1 24.2 24.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 252.3 252.1 251.9 252.2 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: 25310C) (To le) (WAD Cy) (As) (Sb) (D.O. (mg/L) 0.60 0.59 0.61 0.59 0.60 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towanide) (Free Ba) (Ba) (Ca)	6.23 6.23 6.22 6.23 6.22 6.23 6.29 6.20 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -32.7 -32.6 -32.7 -32.8 -32.7 TYPE (Circle alder of the control of	#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 O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 24.1 24.1 24.2 24.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 252.3 252.1 251.9 252.2 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: 25310C) (To (be) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.60 0.59 0.61 0.59 0.60 LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towanide) (Free Ba) (Ba) (Ca)	6.23 6.23 6.22 6.23 6.22 6.23 6.29 6.20 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -32.7 -32.6 -32.7 -32.8 -32.7 TYPE (Circle alder of the control of	#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 O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 24.1 24.1 24.2 24.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 252.3 252.1 251.9 252.2 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: (25310C) (To: (be) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.60 0.59 0.61 0.59 0.60 LOWED PE 0) (NWTPH-I-D) (NWTPH-I-D	6.23 6.23 6.22 6.23 6.22 6.23 6.29 6.20 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -32.7 -32.6 -32.7 -32.8 -32.7 TYPE (Circle alder of the control of	#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 O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 24.1 24.1 24.2 24.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 252.3 252.1 251.9 252.2 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: 25310C) (To (be) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.60 0.59 0.61 0.59 0.60 LOWED PE 0) (NWTPH-I-D) (NWTPH-I-D	6.23 6.23 6.22 6.23 6.22 6.23 6.29 6.20 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -32.7 -32.6 -32.7 -32.8 -32.7 TYPE (Circle alder of the control of	#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 O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 24.1 24.1 24.2 24.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 252.3 252.1 251.9 252.2 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: (25310C) (To: (be) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.60 0.59 0.61 0.59 0.60 LOWED PE 0) (NWTPH-I-D) (NWTPH-I-D	6.23 6.23 6.22 6.23 6.22 6.23 6.29 6.20 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -32.7 -32.6 -32.7 -32.8 -32.7 TYPE (Circle alder of the control of	#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 O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 24.1 24.1 24.2 24.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 252.3 252.1 251.9 252.2 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: (25310C) (To: (be) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.60 0.59 0.61 0.59 0.60 LOWED PE 0) (NWTPH-I-D) (NWTPH-I-D	6.23 6.23 6.22 6.23 6.22 6.23 6.29 6.20 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -32.7 -32.6 -32.7 -32.8 -32.7 TYPE (Circle alder of the control of	#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 O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 24.1 24.1 24.2 24.1 TYPICAL A (8260-SIM) (8270D) (PA (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 252.3 252.1 251.9 252.2 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: (25310C) (To: (be) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.60 0.59 0.61 0.59 0.60 LOWED PE 0) (NWTPH-I-D) (NWTPH-I-D	6.23 6.23 6.22 6.23 6.22 6.23 6.29 6.20 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -32.7 -32.6 -32.7 -32.8 -32.7 TYPE (Circle alder of the control of	#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 O	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) 24.1 24.1 24.2 24.1 TYPICAL A (8260-SIM) (8270D) (PA (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 252.3 252.1 251.9 252.2 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: (25310C) (To: (be) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.60 0.59 0.61 0.59 0.60 LOWED PE 0) (NWTPH-I-D) (NWTPH-I-D	6.23 6.23 6.22 6.23 6.22 6.23 6.29 6.20 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -32.7 -32.6 -32.7 -32.8 -32.7 TYPE (Circle alder of the control of	#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 O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 24.1 24.1 24.2 24.1 TYPICAL A (8260-SIM) (8270D) (PA (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 252.3 252.1 251.9 252.2 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: (25310C) (To: (be) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.60 0.59 0.61 0.59 0.60 LOWED PE 0) (NWTPH-I-D) (NWTPH-I-D	6.23 6.23 6.22 6.23 6.22 6.23 6.29 6.20 (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -32.7 -32.6 -32.7 -32.8 -32.7 TYPE (Circle alder of the control of	#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 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:		Aug-21			Date/Time:	8/ 10 /2021@	1505		
Sample Num	nber:	RGW235I-	210810		Weather:	SUNNY 80'S			
Landau Repr	resentative:	AHA							
WATER LEV	EL/WELL/PU	IRGE DATA							
Well Conditio	n:	Secure (YES)	Damaged (N	(O)	Describe:	FLUSHJMOU	NT	
DTW Before I	Purging (ft)	7.95	Time:	1420	Flow through cel	ll vol.		GW Meter No.(s	SLOPE 2
Begin Purge:		8/ 10 /2021	1440	End Purge:	_	8/ 10 /2021 @	1502	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)	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	
1443	20.3	186.7	0.44	6.35	-8.1		7.95		
1446	21.3	189.5	0.31	6.26	-16.4		7.95		
1449	22.1	192.1	0.27	6.33	-27.1		7.98		
1452	22.2	191.6	0.24	6.38	-32.9		7.98		
1455	22.1	190.8	0.25	6.42	-37.3		7.98		
							7.50		
1458	22.1	190.0	0.24	6.42	-37.6		. ———		
							. ———		
SAMPLE CO									
Sample Collec	eted With:		Bailer		Pump/Pump Type	_		-	
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene	Other	☐ Dedicated	
Decon Proced		Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	1 Oudou)								
	· ·	Other							
	· ·	-	, sheen, etc.):	NO COLOR	, LOW TURB, NO	O ODOR, NO SHE	EN		
Sample Descr	iption (color,	turbidity, odor						Ferrous iron	Comments/
	· ·	-	D.O. (mg/L)	NO COLOR	, LOW TURB, NO ORP (mV)	O ODOR, NO SHE Turbidity (NTU)	DTW (ft)	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)	рН 6.42	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate 1 2	Temp (°F/°C) 22.0	Cond. (uS/cm) 190.1	D.O. (mg/L) 0.25	pH 6.42 6.42	ORP (mV) -38.2	Turbidity	DTW		
Sample Descr Replicate 1 2 3	Temp (°F/°C) 22.0 22.1	Cond. (uS/cm) 190.1 189.9	D.O. (mg/L) 0.25 0.25	pH 6.42 6.42 6.42	ORP (mV) -38.2 -38.1 -37.9	Turbidity	DTW		
Sample Descr Replicate 1 2	Temp (°F/°C) 22.0	Cond. (uS/cm) 190.1 189.9 189.9	D.O. (mg/L) 0.25	pH 6.42 6.42	ORP (mV) -38.2	Turbidity	DTW		
Sample Descr Replicate 1 2 3	Temp (°F/°C) 22.0 22.1	Cond. (uS/cm) 190.1 189.9	D.O. (mg/L) 0.25 0.25	pH 6.42 6.42 6.42	ORP (mV) -38.2 -38.1 -37.9	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.0 22.1 22.1 22.1	Cond. (uS/cm) 190.1 189.9 189.9 189.9 190.0	D.O. (mg/L) 0.25 0.25 0.25 0.25	6.42 6.42 6.42 6.42 6.42	ORP (mV) -38.2 -38.1 -37.9 -38.1 -38.1	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.0 22.1 22.1 TYPICAL A	Cond. (uS/cm) 190.1 189.9 189.9 189.9 190.0	D.O. (mg/L) 0.25 0.25 0.25 0.25 0.25	6.42 6.42 6.42 6.42 6.42 8.42	ORP (mV) -38.2 -38.1 -37.9 -38.1 -38.1 TYPE (Circle ap	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.0 22.1 22.1 22.1 TYPICAL A (8260-SIM) (8270D) (PA	Cond. (uS/cm) 190.1 189.9 189.9 189.9 190.0 NALYSIS AI (8010) (8020 AH) (NWTPH	D.O. (mg/L) 0.25 0.25 0.25 0.25 0.25 0.25 0.10 (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D)	6.42 6.42 6.42 6.42 6.42 6.42 G. (NWTPF	ORP (mV) -38.2 -38.1 -37.9 -38.1 -38.1 TYPE (Circle application of the company of the comp	#DIV/0!	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 22.0 22.1 22.1 22.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 190.1 189.9 189.9 189.9 190.0 NALYSIS AI (8010) (8020) AH) (NWTPHetivity) (TD:	D.O. (mg/L) 0.25 0.25 0.25 0.25 0.25 0.25 0.10 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	6.42 6.42 6.42 6.42 6.42 6.42 GR BOTTLE G) (NWTPHH-Dx) (TPHOD) (Turbio	ORP (mV) -38.2 -38.1 -37.9 -38.1 -38.1 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081) dity) (Alkalinity)	#DIV/0! #DIV/0! pplicable or write to the second	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 22.0 22.1 22.1 22.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction) (TOO	Cond. (uS/cm) 190.1 189.9 189.9 189.9 190.0 NALYSIS AI (8010) (8020 AH) (NWTPI detivity) (TD: 25310C) (To	D.O. (mg/L) 0.25 0.25 0.25 0.25 0.25 0.25 0.25 LOWED PE D) (NWTPH-H-D)	6.42 6.42 6.42 6.42 6.42 6.42 6.12 R BOTTLE G) (NWTPH H-Dx) (TPH OD) (Turbic tal Kiedahl N	ORP (mV) -38.2 -38.1 -37.9 -38.1 -38.1 TYPE (Circle application of the company of the comp	#DIV/0! #DIV/0! pplicable or write to the second	DTW (ft) non-standard and arease)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 22.0 22.1 22.1 22.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction) (Tool (Total Cyanid)	Cond. (uS/cm) 190.1 189.9 189.9 189.9 190.0 NALYSIS AI (8010) (8020 AH) (NWTPH (ctivity) (TD: (25310C) (To e) (WAD Cy	D.O. (mg/L) 0.25 0.25 0.25 0.25 0.25 0.25 0.25 LOWED PE D) (NWTPH-H-D)	6.42 6.42 6.42 6.42 6.42 6.42 G.WATPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide)	ORP (mV) -38.2 -38.1 -37.9 -38.1 -38.1 TYPE (Circle application (BTEX) (BTEX) H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) (itrogen) (NH3)	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Groot (HCO3/CO3) (Oil (NO3/NO2))	DTW (ft) non-standard and rease) CI) (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: QUANTITY 3	Temp (°F/°C) 22.0 22.1 22.1 22.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 190.1 189.9 189.9 189.9 190.0 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: 0ctivity) (TD: 0ctivity) (TD: 0ctivity) (As) (Sb) (D.O. (mg/L) 0.25 0.25 0.25 0.25 0.25 LOWED PE 0.) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To ranide) (Free Ba) (Be) (Ca	6.42 6.42 6.42 6.42 6.42 6.42 6.12 6.42 6.42 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -38.2 -38.1 -37.9 -38.1 -38.1 TYPE (Circle applement of the content of the conten	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (MCO3/CO3) (Cross/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) 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) 22.0 22.1 22.1 22.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 190.1 189.9 189.9 189.9 190.0 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: 25310C) (To e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) (St	D.O. (mg/L) 0.25 0.25 0.25 0.25 0.25 LOWED PE 0.) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To ranide) (Free Ba) (Be) (Ca	6.42 6.42 6.42 6.42 6.42 6.42 6.12 6.42 6.42 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -38.2 -38.1 -37.9 -38.1 -38.1 TYPE (Circle applement of the content of the conten	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (MCO3/CO3) (Cross/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) 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) 22.0 22.0 22.1 22.1 22.1 22.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 190.1 189.9 189.9 189.9 190.0 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: 25310C) (To e) (WAD Cy o) (As) (Sb) (etals) (As) (Sb) (St	D.O. (mg/L) 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.10WED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towarde) (Free Ba) (Be) (Capada) (Be) (Capada) (Be) (Capada) (Be) (Capada) (Be) (Capada)	6.42 6.42 6.42 6.42 6.42 6.42 6.12 6.42 6.42 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -38.2 -38.1 -37.9 -38.1 -38.1 TYPE (Circle applement of the content of the conten	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (MCO3/CO3) (Cross/NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	(Fe II) nalysis below) 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) 22.0 22.0 22.1 22.1 22.1 22.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 190.1 189.9 189.9 189.9 190.0 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TD: c5310C) (To: e) (WAD Cy) (As) (Sb) (etals) (As) (Sb; g short list)	D.O. (mg/L) 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.10WED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towarde) (Free Ba) (Be) (Capada) (Be) (Capada) (Be) (Capada) (Be) (Capada) (Be) (Capada)	6.42 6.42 6.42 6.42 6.42 6.42 6.12 6.42 6.42 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -38.2 -38.1 -37.9 -38.1 -38.1 TYPE (Circle applement of the content of the conten	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (MCO3/CO3) (Cross/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) 22.0 22.0 22.1 22.1 22.1 22.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 190.1 189.9 189.9 189.9 190.0 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TD: c5310C) (To: e) (WAD Cy) (As) (Sb) (etals) (As) (Sb; g short list)	D.O. (mg/L) 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.10WED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towarde) (Free Ba) (Be) (Capada) (Be) (Capada) (Be) (Capada) (Be) (Capada) (Be) (Capada)	6.42 6.42 6.42 6.42 6.42 6.42 6.12 6.42 6.42 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -38.2 -38.1 -37.9 -38.1 -38.1 TYPE (Circle applement of the content of the conten	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (MCO3/CO3) (Cross/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) 22.0 22.0 22.1 22.1 22.1 22.1 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 190.1 189.9 189.9 189.9 190.0 NALYSIS AI (8010) (8020 AH) (NWTPHetrivity) (TD: c5310C) (To: e) (WAD Cy) (As) (Sb) (etals) (As) (Sb; g short list)	D.O. (mg/L) 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.10WED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towarde) (Free Ba) (Be) (Capada) (Be) (Capada) (Be) (Capada) (Be) (Capada) (Be) (Capada)	6.42 6.42 6.42 6.42 6.42 6.42 6.12 6.42 6.42 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -38.2 -38.1 -37.9 -38.1 -38.1 TYPE (Circle applement of the content of the conten	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (MCO3/CO3) (Cross/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) 22.0 22.1 22.1 22.1 TYPICAL A (8260-SIM) (8270D) (PA (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 190.1 189.9 189.9 189.9 190.0 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (e) (WAD Cy)) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.10WED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towarde) (Free Ba) (Be) (Capada) (Be) (Capada) (Be) (Capada) (Be) (Capada) (Be) (Capada)	6.42 6.42 6.42 6.42 6.42 6.42 6.12 6.42 6.42 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -38.2 -38.1 -37.9 -38.1 -38.1 TYPE (Circle applement of the content of the conten	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (MCO3/CO3) (Cross/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 1 1 Duplicate San	Temp (°F/°C) 22.0 22.1 22.1 22.1 TYPICAL A (8260-SIM) (8270D) (PA (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 190.1 189.9 189.9 189.9 190.0 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (e) (WAD Cy)) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.10WED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towarde) (Free Ba) (Be) (Capada) (Be) (Capada) (Be) (Capada) (Be) (Capada) (Be) (Capada)	6.42 6.42 6.42 6.42 6.42 6.42 6.12 6.42 6.42 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -38.2 -38.1 -37.9 -38.1 -38.1 TYPE (Circle applement of the content of the conten	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (MCO3/CO3) (Cross/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) 22.0 22.1 22.1 22.1 TYPICAL A (8260-SIM) (8270D) (PA (COD) (TOO (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 190.1 189.9 189.9 189.9 190.0 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (e) (WAD Cy)) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.10WED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towarde) (Free Ba) (Be) (Capada) (Be) (Capada) (Be) (Capada) (Be) (Capada) (Be) (Capada)	6.42 6.42 6.42 6.42 6.42 6.42 6.12 6.42 6.42 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -38.2 -38.1 -37.9 -38.1 -38.1 TYPE (Circle applement of the content of the conten	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grover (MCO3/CO3) (Cross/NO2) (Pb) (Mg) (Mn) (non-standard and rease) Cl) (SO4) (NO Ni) (Ag) (Se) (Tl) (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:		Aug-21			Date/Time:	8/ 10 /2021@	1503		
Sample Nun	nber:	RGW236S-	210810		Weather:	SUNNY, 80S			
Landau Rep	resentative:	BXM							
WATER LEV	/EL/WELL/PU	JRGE DATA							
Well Condition	on:	Secure (YES)	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	7.88	Time:	1430	Flow through ce	ll vol.		GW Meter No.(s	SLOPE 8
	0 0 0	8/ 10 /2021	1438	End Purge:	٥	8/ 10 /2021 @	1501	Gallons Purged:	1
Purge water of			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATMI	ENT SYSTEM
Tunge 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	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1441	21.6	425.5	0.99	6.69	-30.1		8.23		
1444	22.3	450.5	0.59	6.72	-45.2		8.16		
1447	23.5	461.5	0.52	6.77	-55.2		7.94		
1450	-	476.5	0.56	6.75	-60.8		7.88		
1453	26.7	490.3	0.52	6.7	-64.8		7.83		
1456	28.2	499.4	0.51	6.65	-68.0		7.82		
1459	28.9	507	0.53	6.63	-71.1				
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 Procee	dure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	al Order)	Other		•	421				
Sample Desc	, i		, sheen, etc.):	CLEAR, NO	COLOR BUT SO	OME BROWN SOI	LIDS FLOATING	G, NO ODOR, NO	SHEEN
Sample Desc	, i		, sheen, etc.):	CLEAR, NO	COLOR BUT SO	OME BROWN SOI	LIDS FLOATING	G, NO ODOR, NO	SHEEN
Sample Describerate Replicate	ription (color, t	turbidity, odor	D.O.	CLEAR, NO	ORP	Turbidity	DTW	Ferrous iron	Comments/
	ription (color,	turbidity, odor	· -						
	ription (color, t	turbidity, odor	D.O.		ORP	Turbidity	DTW	Ferrous iron	Comments/
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.62	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3	Temp (°F/°C) 28.9 29.0 29.1	Cond. (uS/cm) 507 508	D.O. (mg/L) 0.50 0.52	pH 6.62 6.63 6.62	ORP (mV) -71.3 -70.9 -71.4	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3 4	Temp (°F/°C) 28.9 29.0 29.1 29.0	Cond. (uS/cm) 507 508 508	D.O. (mg/L) 0.50 0.52 0.52	pH 6.62 6.63 6.62 6.63	ORP (mV) -71.3 -70.9 -71.4 -71.8	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3	Temp (°F/°C) 28.9 29.0 29.1	Cond. (uS/cm) 507 508	D.O. (mg/L) 0.50 0.52	pH 6.62 6.63 6.62	ORP (mV) -71.3 -70.9 -71.4	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 28.9 29.0 29.1 29.0 29.0	Cond. (uS/cm) 507 508 508 508 508	D.O. (mg/L) 0.50 0.52 0.52 0.49 0.51	pH 6.62 6.63 6.62 6.63 6.63	ORP (mV) -71.3 -70.9 -71.4 -71.8 -71.4 TYPE (Circle ap	Turbidity	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 28.9 29.0 29.1 29.0 29.0 TYPICAL A (8260-SIM)	Cond. (uS/cm) 507 508 508 508 508 NALYSIS AI (8010) (8020	D.O. (mg/L) 0.50 0.52 0.52 0.49 0.51 LOWED PE	6.62 6.63 6.62 6.63 6.63 6.63 6.63 6.69 6.63 6.69 6.69	ORP (mV) -71.3 -70.9 -71.4 -71.8 -71.4 TYPE (Circle application (BTEX)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II) nalysis below) WA	Comments/ Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 28.9 29.0 29.1 29.0 29.0 1TYPICAL A (8260-SIM) (8270D) (PA	Cond. (uS/cm) 507 508 508 508 508 NALYSIS AI (8010) (8020 AH) (NWTPH	D.O. (mg/L) 0.50 0.52 0.52 0.49 0.51 LOWED PE 0) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D)	6.62 6.63 6.63 6.63 6.63 CR BOTTLE G) (NWTPP	ORP (mV) -71.3 -70.9 -71.4 -71.8 -71.4 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081)	Turbidity (NTU) pplicable or write	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) malysis below) WA WA WA	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 28.9 29.0 29.1 29.0 29.0 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 507 508 508 508 508 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS)	D.O. (mg/L) 0.50 0.52 0.52 0.49 0.51 LOWED PE 0) (NWTPH-H-D) (NWTPH-H-D	6.62 6.63 6.63 6.63 6.63 CR BOTTLE G) (NWTPF	ORP (mV) -71.3 -70.9 -71.4 -71.8 -71.4 TYPE (Circle ap degree (BTEX) I-HCID) (8081) dity) (Alkalinity)	Turbidity (NTU) pplicable or write (8141) (Oil & Gr	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) 28.9 29.0 29.1 29.0 29.0 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 507 508 508 508 508 NALYSIS AI (8010) (8020 AH) (NWTPH activity) (TD: C5310C) (To:	D.O. (mg/L) 0.50 0.52 0.52 0.49 0.51 LOWED PE D) (NWTPH-I-D)	6.62 6.63 6.63 6.63 6.63 6.8 BOTTLE G) (NWTPF H-Dx) (TPF HOD) (Turbic tal Kiedahl N	ORP (mV) -71.3 -70.9 -71.4 -71.8 -71.4 TYPE (Circle ap I-Gx) (BTEX) I-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & Gr	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) 28.9 29.0 29.1 29.0 29.0 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction (COD) (TOC) (Total Cyanida.)	Cond. (uS/cm) 507 508 508 508 508 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS) (25310C) (To) (e) (WAD Cy	D.O. (mg/L) 0.50 0.52 0.52 0.49 0.51 LOWED PE D) (NWTPH-H-D)	6.62 6.63 6.63 6.63 6.63 CR BOTTLE G) (NWTPF H-Dx) (TPF HOD) (Turbic tal Kiedahl N Cyanide)	ORP (mV) -71.3 -70.9 -71.4 -71.8 -71.4 TYPE (Circle application (BTEX) (BTEX) I-HCID) (8081) dity) (Alkalinity) (itrogen) (NH3)	Turbidity (NTU) oplicable or write: (8141) (Oil & Gi (HCO3/CO3) (Oil (NO3/NO2)	DTW (ft) non-standard and arease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA WA WO WO WO (F)	Comments/ Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 28.9 29.0 29.1 29.0 29.0 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 507 508 508 508 508 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (CS310C) (To- le) (WAD Cy) (As) (Sb) (D.O. (mg/L) 0.50 0.52 0.52 0.49 0.51 LOWED PE D) (NWTPH-H-D)	6.62 6.63 6.63 6.63 6.63 6.63 6.63 6.63	ORP (mV) -71.3 -70.9 -71.4 -71.8 -71.4 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3) (Cr) (Cu) (Fe)	Turbidity (NTU) oplicable or write (8141) (Oil & Groth (HCO3/CO3) (Oil (NO3/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 ON ONE OF O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 28.9 29.0 29.1 29.0 29.0 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 507 508 508 508 508 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (Too (be) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.50 0.52 0.52 0.49 0.51 LOWED PE D) (NWTPH-H-D)	6.62 6.63 6.63 6.63 6.63 6.63 6.63 6.63	ORP (mV) -71.3 -70.9 -71.4 -71.8 -71.4 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3) (Cr) (Cu) (Fe)	Turbidity (NTU) oplicable or write (8141) (Oil & Groth (HCO3/CO3) (Oil (NO3/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 ON ONE OF O	Comments/ Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 28.9 29.0 29.1 29.0 29.0 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 507 508 508 508 508 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (Too (be) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.50 0.52 0.52 0.49 0.51 LOWED PE D) (NWTPH-I-D)	6.62 6.63 6.63 6.63 6.63 6.63 6.63 6.63	ORP (mV) -71.3 -70.9 -71.4 -71.8 -71.4 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3) (Cr) (Cu) (Fe)	Turbidity (NTU) oplicable or write (8141) (Oil & Groth (HCO3/CO3) (Oil (NO3/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 ON ONE OF O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 28.9 29.0 29.1 29.0 29.0 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 507 508 508 508 508 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (To- (le) (WAD Cy)) (As) (Sb) (etals) (As) (Sb- g short list)	D.O. (mg/L) 0.50 0.52 0.52 0.49 0.51 LOWED PE D) (NWTPH-I-D)	6.62 6.63 6.63 6.63 6.63 6.63 6.63 6.63	ORP (mV) -71.3 -70.9 -71.4 -71.8 -71.4 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3) (Cr) (Cu) (Fe)	Turbidity (NTU) oplicable or write (8141) (Oil & Groth (HCO3/CO3) (Oil (NO3/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 ON ONE OF O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 28.9 29.0 29.1 29.0 29.0 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 507 508 508 508 508 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (To- (le) (WAD Cy)) (As) (Sb) (etals) (As) (Sb- g short list)	D.O. (mg/L) 0.50 0.52 0.52 0.49 0.51 LOWED PE D) (NWTPH-I-D)	6.62 6.63 6.63 6.63 6.63 6.63 6.63 6.63	ORP (mV) -71.3 -70.9 -71.4 -71.8 -71.4 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3) (Cr) (Cu) (Fe)	Turbidity (NTU) oplicable or write (8141) (Oil & Groth (HCO3/CO3) (Oil (NO3/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 ON ONE OF O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 28.9 29.0 29.1 29.0 29.0 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 507 508 508 508 508 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (To- (le) (WAD Cy)) (As) (Sb) (etals) (As) (Sb- g short list)	D.O. (mg/L) 0.50 0.52 0.52 0.49 0.51 LOWED PE D) (NWTPH-I-D)	6.62 6.63 6.63 6.63 6.63 6.63 6.63 6.63	ORP (mV) -71.3 -70.9 -71.4 -71.8 -71.4 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3) (Cr) (Cu) (Fe)	Turbidity (NTU) oplicable or write (8141) (Oil & Groth (HCO3/CO3) (Oil (NO3/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 ON ONE OF O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 28.9 29.0 29.1 29.0 29.0 TYPICAL A (8260-SIM) (8270D) (PA (PH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth)	Cond. (uS/cm) 507 508 508 508 508 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (To- (le) (WAD Cy)) (As) (Sb) (etals) (As) (Sb- g short list)	D.O. (mg/L) 0.50 0.52 0.52 0.49 0.51 LOWED PE D) (NWTPH-I-D)	6.62 6.63 6.63 6.63 6.63 6.63 6.63 6.63	ORP (mV) -71.3 -70.9 -71.4 -71.8 -71.4 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3) (Cr) (Cu) (Fe)	Turbidity (NTU) oplicable or write (8141) (Oil & Groth (HCO3/CO3) (Oil (NO3/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 ON ONE OF O	Comments/ 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) 28.9 29.0 29.1 29.0 29.0 TYPICAL A (8260-SIM) (8270D) (PA (PH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth)	Cond. (uS/cm) 507 508 508 508 508 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (To- (le) (WAD Cy)) (As) (Sb) (etals) (As) (Sb- g short list)	D.O. (mg/L) 0.50 0.52 0.52 0.49 0.51 LOWED PE D) (NWTPH-I-D)	6.62 6.63 6.63 6.63 6.63 6.63 6.63 6.63	ORP (mV) -71.3 -70.9 -71.4 -71.8 -71.4 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3) (Cr) (Cu) (Fe)	Turbidity (NTU) oplicable or write (8141) (Oil & Groth (HCO3/CO3) (Oil (NO3/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 ON ONE OF O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 28.9 29.0 29.1 29.0 29.0 TYPICAL A (8260-SIM) (8270D) (PA (PH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth)	Cond. (uS/cm) 507 508 508 508 508 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (To- (le) (WAD Cy)) (As) (Sb) (etals) (As) (Sb- g short list)	D.O. (mg/L) 0.50 0.52 0.52 0.49 0.51 LOWED PE D) (NWTPH-I-D)	6.62 6.63 6.63 6.63 6.63 6.63 6.63 6.63	ORP (mV) -71.3 -70.9 -71.4 -71.8 -71.4 TYPE (Circle application (BTEX) I-HCID) (8081) dity) (Alkalinity) itrogen) (NH3) (Cr) (Cu) (Fe)	Turbidity (NTU) oplicable or write (8141) (Oil & Groth (HCO3/CO3) (Oil (NO3/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 ON ONE OF O	Comments/ Observations OR OR OR OR OR OR OR OR OR OR



Project Name	e <u>:</u>	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 11 /2021@	1015		
Sample Num	ıber:	RGW237S-	210811		Weather:	SUNNY 70'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 I	Purging (ft)	4.66	Time:	947		ll vol.		GW Meter No.(s	SLOPE 2
Begin Purge:		8/11 /2021	950	End Purge:		8/ 11/2021@	1012	Gallons Purged:	0.25
Purge water di			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	
953	22.9	294.6	0.54	6.16	-8.5		4.66		
956	23.1	302.4	0.46	6.20	-14.2		4.66		
959	23.6	315.6	0.50	6.24	-30.8		4.69		
1002	23.8	331.8	0.45	6.28	-38.7		4.66	•	
							. ———		
1005	24.2	363.6	0.46	6.30	-45.0		4.66		
1008	25.3	384.2	0.49	6.34	-54.3				
1010	25.6	385.5	0.48	6.34	-55.6		· 		
SAMPLE COI	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	101)	—							
(By Numerical	l Order)	Other							
	· ·	-	, sheen, etc.):	NO COLOR	, LOW TURB, NO	O ODOR, NO SHE	EN, BROWN PA	ARTICULATES	
Sample Descri	iption (color, t	turbidity, odor	· -						
	iption (color, t	turbidity, odor	D.O.	NO COLOR	ORP	Turbidity	DTW	Ferrous iron	Comments/ Observations
Sample Descri	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)				Comments/ Observations
Sample Descri	Temp (°F/°C)	Cond. (uS/cm) 386.2	D.O. (mg/L)	рН 6.34	ORP (mV)	Turbidity	DTW	Ferrous iron	
Sample Descri	Temp (°F/°C) 25.8	Cond. (uS/cm) 386.2	D.O. (mg/L) 0.49	pH 6.34 6.34	ORP (mV) -56.2	Turbidity	DTW	Ferrous iron	
Sample Descri	Temp (°F/°C)	Cond. (uS/cm) 386.2	D.O. (mg/L)	рН 6.34	ORP (mV)	Turbidity	DTW	Ferrous iron	
Replicate 1 2	Temp (°F/°C) 25.8	Cond. (uS/cm) 386.2	D.O. (mg/L) 0.49	pH 6.34 6.34	ORP (mV) -56.2	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3	Temp (°F/°C) 25.8 25.8 25.8	Cond. (uS/cm) 386.2 386.8 387.4	D.O. (mg/L) 0.49 0.48	pH 6.34 6.34 6.34	ORP (mV) -56.2 -56.6 -56.9	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 25.8 25.8 25.8 25.8 25.8	Cond. (uS/cm) 386.2 386.8 387.4 387.8	D.O. (mg/L) 0.49 0.48 0.50 0.73	pH 6.34 6.34 6.35 6.34	ORP (mV) -56.2 -56.6 -56.9 -57.2 -56.7	Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 25.8 25.8 25.8 25.8 25.8	Cond. (uS/cm) 386.2 386.8 387.4 387.8	D.O. (mg/L) 0.49 0.48 0.50 0.73 0.55	6.34 6.34 6.35 6.34 CR BOTTLE	ORP (mV) -56.2 -56.6 -56.9 -57.2 -56.7 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 25.8 25.8 25.8 25.8 25.8 25.8 (8260) (8010	Cond. (uS/cm) 386.2 386.8 387.4 387.8 387.1 NALYSIS AI	D.O. (mg/L) 0.49 0.48 0.50 0.73 0.55 LOWED PE	6.34 6.34 6.35 6.34 CR BOTTLE	ORP (mV) -56.2 -56.6 -56.9 -57.2 -56.7 TYPE (Circle ap	Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 25.8 25.8 25.8 25.8 25.8 25.8 25.8 (8260) (8010) (8270) (PAF	Cond. (uS/cm) 386.2 386.8 387.4 387.8 387.1 NALYSIS AI O) (8020) (N	D.O. (mg/L) 0.49 0.48 0.50 0.73 0.55 LOWED PE	pH 6.34 6.34 6.35 6.34 CR BOTTLE NWTPH-Gx, 1-Dx) (TPH-	ORP (mV) -56.2 -56.6 -56.9 -57.2 -56.7 TYPE (Circle aport (Circle	Turbidity (NTU) #DIV/0! oplicable or write	DTW (ft) non-standard an	Ferrous iron (Fe II) analysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 25.8 25.8 25.8 25.8 25.8 25.8 (8260) (8010) (8270) (PAH (pH) (Condu	Cond. (uS/cm) 386.2 386.8 387.4 387.8 387.1 NALYSIS AI 0) (8020) (N I) (NWTPH- lectivity) (TDS)	D.O. (mg/L) 0.49 0.48 0.50 0.73 0.55 LOWED PE	6.34 6.34 6.35 6.34 CR BOTTLE NWTPH-GX -Dx) (TPH-GOD) (Turbic	ORP (mV) -56.2 -56.6 -56.9 -57.2 -56.7 TYPE (Circle aport (Circle	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Gre) (HCO3/CO3) (6	DTW (ft) non-standard an	Ferrous iron (Fe II) analysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 25.8 25.8 25.8 25.8 25.8 25.8 (8260) (8010 (8270) (PAF (pH) (Conduction) (TOO	Cond. (uS/cm) 386.2 386.8 387.4 387.8 387.1 NALYSIS AI 0) (8020) (N I) (NWTPH- lectivity) (TDS)	D.O. (mg/L) 0.49 0.48 0.50 0.73 0.55 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B	6.34 6.34 6.35 6.34 CR BOTTLE NWTPH-Gx DD) (TUrbid dahl Nitroger	ORP (mV) -56.2 -56.6 -56.9 -57.2 -56.7 TYPE (Circle ap (BTEX) HCID) (8081) (dity) (Alkalinity)	#DIV/0! #DIV/0! pplicable or write 8141) (Oil & Gre) (HCO3/CO3) (6	DTW (ft) non-standard an	Ferrous iron (Fe II) analysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 25.8 25.8 25.8 25.8 25.8 25.8 (8260) (8010) (8270) (PAF (pH) (Conduction (COD) (Total Cyanidal (Total Metals))	Cond. (uS/cm) 386.2 386.8 387.4 387.8 387.1 NALYSIS AI O) (8020) (NI) (NWTPH- lectivity) (TDS C) (Total PO- lectivity) (AS) (Sb) (D.O. (mg/L) 0.49 0.48 0.50 0.73 0.55 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.34 6.34 6.35 6.34 CR BOTTLE NWTPH-GX 1-DX) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -56.2 -56.6 -56.9 -57.2 -56.7 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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 5	Temp (°F/°C) 25.8 25.8 25.8 25.8 25.8 (8260) (8010) (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M.	Cond. (uS/cm) 386.2 386.8 387.4 387.8 387.1 NALYSIS AI O) (8020) (N I) (NWTPH- lectivity) (TDS C) (Total PO4 e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.49 0.48 0.50 0.73 0.55 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.34 6.34 6.35 6.34 CR BOTTLE NWTPH-GX 1-DX) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -56.2 -56.6 -56.9 -57.2 -56.7 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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 5	Temp (°F/°C) 25.8 25.8 25.8 25.8 25.8 25.8 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 386.2 386.8 387.4 387.8 387.1 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) 0.49 0.48 0.50 0.73 0.55 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B d) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.34 6.34 6.35 6.34 CR BOTTLE NWTPH-GX 1-DX) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -56.2 -56.6 -56.9 -57.2 -56.7 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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 5	Temp (°F/°C) 25.8 25.8 25.8 25.8 25.8 25.8 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 386.2 386.8 387.4 387.8 387.1 NALYSIS AI O) (8020) (N I) (NWTPH- lectivity) (TDS C) (Total PO4 e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (D.O. (mg/L) 0.49 0.48 0.50 0.73 0.55 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B d) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.34 6.34 6.35 6.34 CR BOTTLE NWTPH-GX 1-DX) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -56.2 -56.6 -56.9 -57.2 -56.7 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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 5	Temp (°F/°C) 25.8 25.8 25.8 25.8 25.8 25.8 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 386.2 386.8 387.4 387.8 387.1 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) 0.49 0.48 0.50 0.73 0.55 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B d) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.34 6.34 6.35 6.34 CR BOTTLE NWTPH-GX 1-DX) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -56.2 -56.6 -56.9 -57.2 -56.7 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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 5	Temp (°F/°C) 25.8 25.8 25.8 25.8 25.8 25.8 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 386.2 386.8 387.4 387.8 387.1 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) 0.49 0.48 0.50 0.73 0.55 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B d) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.34 6.34 6.35 6.34 CR BOTTLE NWTPH-GX 1-DX) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -56.2 -56.6 -56.9 -57.2 -56.7 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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 5	Temp (°F/°C) 25.8 25.8 25.8 25.8 25.8 25.8 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 386.2 386.8 387.4 387.8 387.1 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) 0.49 0.48 0.50 0.73 0.55 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B d) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.34 6.34 6.35 6.34 CR BOTTLE NWTPH-GX 1-DX) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -56.2 -56.6 -56.9 -57.2 -56.7 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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 5	Temp (°F/°C) 25.8 25.8 25.8 25.8 25.8 25.8 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 386.2 386.8 387.4 387.8 387.1 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) 0.49 0.48 0.50 0.73 0.55 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B d) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.34 6.34 6.35 6.34 CR BOTTLE NWTPH-GX 1-DX) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -56.2 -56.6 -56.9 -57.2 -56.7 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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 5	Temp (°F/°C) 25.8 25.8 25.8 25.8 25.8 25.8 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 386.2 386.8 387.4 387.8 387.1 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) 0.49 0.48 0.50 0.73 0.55 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B d) (Total Kie anide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.34 6.34 6.35 6.34 CR BOTTLE NWTPH-GX 1-DX) (TPH-10D) (Turbic dahl Nitroger Cyanide) 1) (Cd) (Co)	ORP (mV) -56.2 -56.6 -56.9 -57.2 -56.7 TYPE (Circle aportion (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	#DIV/0! #DIV/0! pplicable or write (NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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 Name	e:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 11 /2021@	925		
Sample Num	iber:	RGW240D	210811		Weather:	SUNNY 70'S			
Landau Repr	esentative:	AHA							
WATER LEV	EL/WELL/PU	IRGE DATA							
Well Conditio	n:	Secure (YES)	Damaged (N	O)	Describe:	FLUSHMOUN	T	
DTW Before I	Purging (ft)	6.75	Time:	858	Flow through cel	ll vol.		GW Meter No.(s	SLOPE 2
Begin Purge:		8/ 11 /2021	902	End Purge:	_	8/ 11/2021@	923	Gallons Purged:	0.25
Purge water di	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)	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	
905	23.0	368.4	0.37	6.50	-52.8		6.31		
908	23.6	369.9	0.47	6.46	-59.6		6.09		
911	24.0	372.7	0.55	6.42	-62.5		5.95		
914	24.7	378.9	0.62	6.45	-67.2		5.82		
917	25.1	384.1	0.69	6.46	-71.1		5.77		
920	25.3	387.9	0.66	6.46	-73.6	-	5.72		
	•								
922	26.0	389.4	0.70	6.46	-74.6		5.72		
SAMPLE COI			Bailer		D /D	DI ADDED			
Sample Collec	eted With:		_	PVC	Pump/Pump Type		Other	Dedicated	
Made of:		Stainless Ste	_		Teflon	Polyethylene	U Otner	Dedicated	
Decon Proced		Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
	1 (])	(T) (Alb and							
(By Numerical	· ·	Other		CLOUDY I	IICH TURD, NO.	ODOR NO CHEE	NT.		
	· ·		, sheen, etc.):	CLOUDY, H	IIGH TURB, NO	ODOR, NO SHEE	N		
Sample Descri	· ·		, sheen, etc.):	CLOUDY, F	ORP	ODOR, NO SHEED	N DTW	Ferrous iron	Comments/
	iption (color, t	turbidity, odor	· · · / <u>-</u>			· · · · · · · · · · · · · · · · · · ·		Ferrous iron (Fe II)	Comments/ Observations
Sample Descri	Temp	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 Descri	Temp (°F/°C) 26.0	Cond. (uS/cm) 389.7	D.O. (mg/L) 0.69	pH 6.46 6.46	ORP (mV) -74.8 -75.2	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 26.0 26.1 26.2	Cond. (uS/cm) 389.7 390.3	D.O. (mg/L) 0.69 0.72	pH 6.46 6.46 6.46	ORP (mV) -74.8 -75.2 -75.5	Turbidity	DTW		
Replicate 1 2 3 4	Temp (°F/°C) 26.0 26.1 26.2	Cond. (uS/cm) 389.7 390.3 390.5	D.O. (mg/L) 0.69 0.72 0.68	pH 6.46 6.46 6.46 6.46	ORP (mV) -74.8 -75.2 -75.5	Turbidity (NTU)	DTW		
Replicate 1 2 3	Temp (°F/°C) 26.0 26.1 26.2	Cond. (uS/cm) 389.7 390.3	D.O. (mg/L) 0.69 0.72	pH 6.46 6.46 6.46	ORP (mV) -74.8 -75.2 -75.5	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 26.0 26.1 26.2 26.2 26.1	Cond. (uS/cm) 389.7 390.3 390.5 390.6 390.3	D.O. (mg/L) 0.69 0.72 0.68 0.67 0.69	pH 6.46 6.46 6.46 6.46 6.46	ORP (mV) -74.8 -75.2 -75.5 -75.9 -75.4 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 26.0 26.1 26.2 26.2 26.1 TYPICAL A (8260) (8010	Cond. (uS/cm) 389.7 390.3 390.5 390.6 390.3 NALYSIS AI	D.O. (mg/L) 0.69 0.72 0.68 0.67 0.69 LOWED PE	pH 6.46 6.46 6.46 6.46 6.46 RR BOTTLE	ORP (mV) -74.8 -75.2 -75.5 -75.9 -75.4 TYPE (Circle aport)	Turbidity (NTU) #DIV/0!	DTW (ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 26.0 26.1 26.2 26.2 26.1 TYPICAL A (8260) (8010 (8270) (PAF	Cond. (uS/cm) 389.7 390.3 390.5 390.6 390.3 NALYSIS AI (I) (NWTPH-	D.O. (mg/L) 0.69 0.72 0.68 0.67 0.69 LOWED PE	pH 6.46 6.46 6.46 6.46 6.46 R BOTTLE NWTPH-Gx -Dx) (TPH-	ORP (mV) -74.8 -75.2 -75.5 -75.9 -75.4 TYPE (Circle aportion (Circle	#DIV/0!	DTW (ft) non-standard an	nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 26.0 26.1 26.2 26.2 26.1 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu	Cond. (uS/cm) 389.7 390.3 390.5 390.6 390.3 NALYSIS AI 0) (8020) (NI) (NWTPH- lectivity) (TD:	D.O. (mg/L) 0.69 0.72 0.68 0.67 0.69 LOWED PE WYPH-G) (D) (NWTPH S) (TSS) (B	pH 6.46 6.46 6.46 6.46 6.46 R BOTTLE NWTPH-Gx -Dx) (TPH-OD) (Turbic	ORP (mV) -74.8 -75.2 -75.5 -75.9 -75.4 TYPE (Circle agor) (BTEX) HCID) (8081) (dity) (Alkalinity)	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (6	DTW (ft) non-standard an	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.0 26.1 26.2 26.2 26.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu	Cond. (uS/cm) 389.7 390.3 390.5 390.6 390.3 NALYSIS AI (b) (8020) (NI) (NWTPH- detivity) (TD: (C) (Total PO-	D.O. (mg/L) 0.69 0.72 0.68 0.67 0.69 LOWED PENTPH-G) (D) (NWTPHS) (TSS) (B4) (Total Kie	6.46 6.46 6.46 6.46 6.46 R BOTTLE NWTPH-Gx -Dx) (TPH-OD) (Turbidahl Nitroger	ORP (mV) -74.8 -75.2 -75.5 -75.9 -75.4 TYPE (Circle aportion (Circle	#DIV/0! #DIV/0! pplicable or write (HCO3/CO3) (6	DTW (ft) non-standard an	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.0 26.1 26.2 26.2 26.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid	Cond. (uS/cm) 389.7 390.3 390.5 390.6 390.3 NALYSIS AI (i) (8020) (NI) (NWTPHactivity) (TD: (iii) (Total PO- (iii) (WAD Cy	D.O. (mg/L) 0.69 0.72 0.68 0.67 0.69 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free	pH 6.46 6.46 6.46 6.46 6.46 CR BOTTLE NWTPH-Gx -Dx) (TPH-OD) (Turbidahl Nitroger Cyanide)	ORP (mV) -74.8 -75.2 -75.5 -75.9 -75.4 TYPE (Circle ap (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (S141) (Oil & Green (HCO3/CO3) (ON)	DTW (ft) non-standard an ase) Cl) (SO4) (NO	(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 W	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.0 26.1 26.2 26.2 26.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 389.7 390.3 390.5 390.6 390.3 NALYSIS AI (i) (8020) (NI) (NWTPH- (ictivity) (TD: (iii) (Total PO- (iii) (WAD Cy (iii) (As) (Sb) (D.O. (mg/L) 0.69 0.72 0.68 0.67 0.69 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.46 6.46 6.46 6.46 6.46 CR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -74.8 -75.2 -75.5 -75.9 -75.4 TYPE (Circle ago (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Green (HCO3/CO3) (MNO2) (Pb) (Mg) (Mn) (Mn) (Mn)	DTW (ft) non-standard an ase) Cl) (SO4) (NO	nalysis below) WA WA O WA O O O O O O 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 5	Temp (°F/°C) 26.0 26.1 26.2 26.2 26.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 389.7 390.3 390.5 390.6 390.3 NALYSIS AI O) (8020) (NI) (NWTPH- lectivity) (TD: C) (Total PO- e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L) 0.69 0.72 0.68 0.67 0.69 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.46 6.46 6.46 6.46 6.46 CR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -74.8 -75.2 -75.5 -75.9 -75.4 TYPE (Circle ago (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Green (HCO3/CO3) (MNO2) (Pb) (Mg) (Mn) (Mn) (Mn)	DTW (ft) non-standard an ase) Cl) (SO4) (NO	nalysis below) WA WA O WA O O O O O O 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 5	Temp (°F/°C) 26.0 26.1 26.2 26.2 26.1 TYPICAL A (8260) (8016 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 389.7 390.3 390.5 390.6 390.3 NALYSIS AI O) (8020) (NI) (NWTPH- lectivity) (TD: C) (Total PO- e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L) 0.69 0.72 0.68 0.67 0.69 LOWED PENWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.46 6.46 6.46 6.46 6.46 CR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -74.8 -75.2 -75.5 -75.9 -75.4 TYPE (Circle agorithm) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Green (HCO3/CO3) (MNO2) (Pb) (Mg) (Mn) (Mn) (Mn)	DTW (ft) non-standard an ase) Cl) (SO4) (NO	nalysis below) WA WA O WA O O O O O O 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 5	Temp (°F/°C) 26.0 26.1 26.2 26.2 26.1 TYPICAL A (8260) (8016 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 389.7 390.3 390.5 390.6 390.3 NALYSIS AI () (8020) (NI) (NWTPHactivity) (TD: (C) (Total POde) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.69 0.72 0.68 0.67 0.69 LOWED PENWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.46 6.46 6.46 6.46 6.46 CR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -74.8 -75.2 -75.5 -75.9 -75.4 TYPE (Circle agorithm) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Green (HCO3/CO3) (MNO2) (Pb) (Mg) (Mn) (Mn) (Mn)	DTW (ft) non-standard an ase) Cl) (SO4) (NO	nalysis below) WA WA O WA O O O O O O 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 5	Temp (°F/°C) 26.0 26.1 26.2 26.2 26.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 389.7 390.3 390.5 390.6 390.3 NALYSIS AI () (8020) (NI) (NWTPHactivity) (TD: (C) (Total POde) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.69 0.72 0.68 0.67 0.69 LOWED PENWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.46 6.46 6.46 6.46 6.46 CR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -74.8 -75.2 -75.5 -75.9 -75.4 TYPE (Circle agorithm) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Green (HCO3/CO3) (MNO2) (Pb) (Mg) (Mn) (Mn) (Mn)	DTW (ft) non-standard an ase) Cl) (SO4) (NO	nalysis below) WA WA O WA O O O O O O 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 5	Temp (°F/°C) 26.0 26.1 26.2 26.2 26.1 TYPICAL A (8260) (8016 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 389.7 390.3 390.5 390.6 390.3 NALYSIS AI () (8020) (NI) (NWTPHactivity) (TD: (C) (Total POde) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.69 0.72 0.68 0.67 0.69 LOWED PENWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.46 6.46 6.46 6.46 6.46 CR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -74.8 -75.2 -75.5 -75.9 -75.4 TYPE (Circle agorithm) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Green (HCO3/CO3) (MNO2) (Pb) (Mg) (Mn) (Mn) (Mn)	DTW (ft) non-standard an ase) Cl) (SO4) (NO	nalysis below) WA WA O WA O O O O O O 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 5	Temp (°F/°C) 26.0 26.1 26.2 26.2 26.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 389.7 390.3 390.5 390.6 390.3 NALYSIS AI () (8020) (NI) (NWTPHactivity) (TD: (C) (Total POde) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.69 0.72 0.68 0.67 0.69 LOWED PENWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.46 6.46 6.46 6.46 6.46 CR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -74.8 -75.2 -75.5 -75.9 -75.4 TYPE (Circle agorithm) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Green (HCO3/CO3) (MNO2) (Pb) (Mg) (Mn) (Mn) (Mn)	DTW (ft) non-standard an ase) Cl) (SO4) (NO	nalysis below) WA WA O WA O O O O O O 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 5	Temp (°F/°C) 26.0 26.1 26.2 26.2 26.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 389.7 390.3 390.5 390.6 390.3 NALYSIS AI () (8020) (NI) (NWTPHactivity) (TD: (C) (Total POde) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.69 0.72 0.68 0.67 0.69 LOWED PENWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.46 6.46 6.46 6.46 6.46 CR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -74.8 -75.2 -75.5 -75.9 -75.4 TYPE (Circle agorithm) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Green (HCO3/CO3) (MNO2) (Pb) (Mg) (Mn) (Mn) (Mn)	DTW (ft) non-standard an ase) Cl) (SO4) (NO	nalysis below) WA WA O WA O O O O O O 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 5 1 Duplicate Sam	Temp (°F/°C) 26.0 26.1 26.2 26.2 26.1 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 389.7 390.3 390.5 390.6 390.3 NALYSIS AI () (8020) (NI) (NWTPHactivity) (TD: (C) (Total POde) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.69 0.72 0.68 0.67 0.69 LOWED PENWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.46 6.46 6.46 6.46 6.46 CR BOTTLE NWTPH-GX -DX) (TPH-OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV) -74.8 -75.2 -75.5 -75.9 -75.4 TYPE (Circle agorithm) (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! #B141) (Oil & Green (HCO3/CO3) (MNO2) (Pb) (Mg) (Mn) (Mn) (Mn)	DTW (ft) non-standard an ase) Cl) (SO4) (NO	nalysis below) WA WA O WA O O O O O O 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	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 11 /2021@	1145		
Sample Num	nber:	RGW-244S	210811		Weather:	SUNNY 70'S			
Landau Repr	resentative:	AHA							
WATER LEV	'EL/WELL/PU	RGE DATA							
Well Condition	n:	Secure (YES)	Damaged (N	(O)	Describe:	FLUSHMOUN	T	
DTW Before	Purging (ft)	5.29	Time:	1116	Flow through ce	ll vol.		GW Meter No.(s	SLOPE 2
Begin Purge:	Date/Time:	8/11 /2021	1118	End Purge:	Date/Time:	8/ 11/2021@	1140	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	
1121	22.1	554.0	0.48	6.12	-30.4		5.29		
1124	24.1	574.0	0.50	6.10	-44.5		5.29		
1127	24.7	580.0	0.57	6.11	-48.6		5.29		
1130	25.5	586.0	0.62	6.12	-54.0		5.29		
1133	26.0	591.0	0.70	6.12	-57.3				
1136	26.5	595.0	0.75	6.12	-59.7	-			
	. ———				-		· 		
1138	26.9	599.0	0.77	6.12	-61.1		· 		
SAMPLE CO			Bailer		D /D	DI ADDED			
Sample Collec	cted with:	_	_	_	Pump/Pump Type	Polyethylene	Other	Dedicated	
Made of:							и и Олner		
		Stainless Ste	_	PVC	Teflon			Beareatea	
Decon Proced	_	Alconox Was	_	PVC Tap Rinse	DI Water	Dedicated	<u> </u>	Bealeated	
Decon Proced (By Numerica)	l Order)	Alconox Was	sh 🗍	Tap Rinse	DI Water	Dedicated		Decirculed	
Decon Proced (By Numerical	l Order)	Alconox Was	sh 🗍	Tap Rinse	DI Water				
Decon Proced (By Numerica)	l Order)	Alconox Was	sh 🗍	Tap Rinse	DI Water	Dedicated		Ferrous iron	Comments/
Decon Proced (By Numerical Sample Descr	il Order)	Alconox Was	sh , sheen, etc.):	Tap Rinse	DI Water	Dedicated O ODOR, NO SHE	EN		Comments/ Observations
Decon Proced (By Numerical Sample Descr	rl Order) ription (color, t	Alconox Was Other curbidity, odor	sh , sheen, etc.):	Tap Rinse	DI Water , LOW TURB, NO	Dedicated DODOR, NO SHE Turbidity	EN	Ferrous iron	
Decon Proced (By Numerical Sample Descr Replicate	ription (color, some of the color) Temp (°F/°C)	Alconox Was Other curbidity, odor Cond. (uS/cm)	, sheen, etc.): D.O. (mg/L)	NO COLOR pH	DI Water , LOW TURB, NO ORP (mV)	Dedicated DODOR, NO SHE Turbidity	EN	Ferrous iron	
Decon Proced (By Numerical Sample Descr Replicate 1 2	Temp (°F/°C) 26.9	Alconox Was Other curbidity, odor Cond. (uS/cm) 600.0	D.O. (mg/L) 0.76 0.78	NO COLOR PH 6.13 6.13	DI Water , LOW TURB, NO ORP (mV) -61.3 -61.5	Dedicated DODOR, NO SHE Turbidity	EN	Ferrous iron	
Decon Proced (By Numerical Sample Describer Replicate 1 2 3	Temp (°F/°C) 26.9 27.0	Alconox Was Other surbidity, odor Cond. (uS/cm) 600.0 600.0	D.O. (mg/L) 0.76 0.78	Tap Rinse NO COLOR pH 6.13 6.13	ORP (mV) -61.3 -61.6	Dedicated DODOR, NO SHE Turbidity	EN	Ferrous iron	
Decon Proced (By Numerical Sample Descr Replicate 1 2 3 4	Temp (°F/°C) 26.9 27.0 27.1	Cond. (uS/cm) 600.0 600.0 601.0	D.O. (mg/L) 0.76 0.78 0.81	NO COLOR pH 6.13 6.13 6.13	ORP (mV) -61.3 -61.6 -61.6	Dedicated Dodor, No SHE Turbidity (NTU)	EN	Ferrous iron	
Decon Proced (By Numerical Sample Describer Replicate 1 2 3	Temp (°F/°C) 26.9 27.0	Alconox Was Other surbidity, odor Cond. (uS/cm) 600.0 600.0	D.O. (mg/L) 0.76 0.78	Tap Rinse NO COLOR pH 6.13 6.13	ORP (mV) -61.3 -61.6	Dedicated DODOR, NO SHE Turbidity	EN	Ferrous iron	
Decon Proced (By Numerical Sample Descr Replicate 1 2 3 4 Average:	Temp (°F/°C) 26.9 27.0 27.1 27.0 TYPICAL A	Alconox Was	D.O. (mg/L) 0.76 0.78 0.79 0.81 0.79	Tap Rinse NO COLOR pH 6.13 6.13 6.13 6.13 6.13	ORP (mV) -61.3 -61.5 -61.6 61.6 TYPE (Circle ap	Dedicated Dodor, No SHE Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Observations
Decon Proced (By Numerical Sample Descr Replicate 1 2 3 4 Average:	Temp (°F/°C) 26.9 27.0 27.1 27.0 TYPICAL A (8260) (8010	Alconox Was Other curbidity, odor (uS/cm) 600.0 600.0 600.3 NALYSIS AI	D.O. (mg/L) 0.76 0.78 0.79 0.81 0.79 LOWED PE	NO COLOR pH 6.13 6.13 6.13 6.13 6.13 CR BOTTLE NWTPH-GX	ORP (mV) -61.3 -61.6 -61.6 TYPE (Circle aport) (BTEX)	Dedicated Dodor, No SHE Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II) malysis below) WA	Observations OR
Decon Proced (By Numerical Sample Descr Replicate 1 2 3 4 Average:	Temp (°F/°C) 26.9 27.0 27.0 27.1 27.0 TYPICAL A (8260) (8010) (8270) (PAF	Alconox Was Other Surbidity, odor Cond. (uS/cm) 600.0 600.0 600.3 NALYSIS AI ()) (8020) (NI) (NWTPH-	D.O. (mg/L) 0.76 0.78 0.79 0.81 0.79 LOWED PE	PH 6.13 6.13 6.13 6.13 6.13 8.18 8.18 8.18 8.18 8.18 8.18 8.18 8	ORP (mV) -61.3 -61.6 -61.6 TYPE (Circle ap) (BTEX)	Dedicated Dodor, No SHE Turbidity (NTU) #DIV/0! pplicable or write 8141) (Oil & Gre	DTW (ft)	Ferrous iron (Fe II) malysis below) WA WA WA	Observations
Decon Proced (By Numerica) Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 27.0 27.1 27.0 TYPICAL A (8260) (8010) (8270) (PAH (pH) (Conduction)	Alconox Was Other Surbidity, odor Cond. (uS/cm) 600.0 600.0 601.0 600.3 NALYSIS AI (uS/cm) (NWTPH-ictivity) (TDS	D.O. (mg/L) 0.76 0.78 0.79 0.81 0.79 LOWED PERMYPH-G) (CO) (NWTPH-G) (CO) (NWTPH-G) (CO) (TSS) (B	PH 6.13 6.13 6.13 6.13 6.13 6.13 6.13 (R BOTTLE NWTPH-GX DD) (Turbic	ORP (mV) -61.3 -61.5 -61.6 61.6 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity)	#DIV/0! #DIV/0! #DIV/0! #141) (Oil & Green (HCO3/CO3) (Market)	DTW (ft)	Ferrous iron (Fe II) malysis below) WA WA WA	Observations OR
Decon Proced (By Numerical Sample Descr Replicate 1 2 3 4 Average:	Temp (°F/°C) 26.9 27.0 27.1 27.0 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Conduction) (TOO	Alconox Was	D.O. (mg/L) 0.76 0.78 0.79 0.81 0.79 LOWED PERWITPH-G) (D) (NWTPH S) (TSS) (B) (Total Kie	PH 6.13 6.13 6.13 6.13 6.13 6.19 CR BOTTLE NWTPH-GX DD) (Turbiddall Nitroger	ORP (mV) -61.3 -61.6 -61.6 TYPE (Circle ap) (BTEX)	#DIV/0! #DIV/0! #DIV/0! #141) (Oil & Green (HCO3/CO3) (Market)	DTW (ft)	Ferrous iron (Fe II) malysis below) WA WA WA	Observations OR
Decon Proced (By Numerica) Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 27.0 27.0 27.1 27.0 TYPICAL A (8260) (8010) (8270) (PAF (pH) (Conduction) (Total Cyanid	Alconox Was Other Aurbidity, odor Cond. (uS/cm) 600.0 600.0 601.0 600.3 NALYSIS AI (1) (8020) (N (1) (NWTPH-activity) (TDS (2) (Total PO4 (e) (WAD Cy	D.O. (mg/L) 0.76 0.78 0.79 0.81 0.79 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B	PH 6.13 6.13 6.13 6.13 6.13 6.13 CR BOTTLE NWTPH-Gx, Dx) (TPH-GD) (Turbid dahl Nitroger Cyanide)	ORP (mV) -61.3 -61.5 -61.6 61.6 TYPE (Circle ap) (BTEX) HCID) (8081) (dity) (Alkalinity) (dity) (NH3) (NO3/	#DIV/0! #DIV/0! #DIV/0! #B141) (Oil & Gre 0 (HCO3/CO3) (O	DTW (ft) non-standard and asse) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ONE OF THE OR OF THE OF	Observations OR OR OR OR OR OR OR OR OR OR
Decon Proced (By Numerica) Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 27.0 27.1 27.0 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals)	Alconox Was	D.O. (mg/L) 0.76 0.78 0.79 0.81 0.79 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B F) (Total Kie anide) (Free Ba) (Be) (Ca	PH 6.13 6.13 6.13 6.13 6.13 6.13 CR BOTTLE NWTPH-GX DD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	DI Water DI Water ORP (mV) -61.3 -61.5 -61.6 61.6 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! Poplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Decon Proced (By Numerica) Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 27.0 27.1 27.0 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals)	Alconox Was Other curbidity, odor Cond. (uS/cm) 600.0 600.0 600.0 600.3 NALYSIS AI 0) (8020) (N 1) (NWTPH- cutivity) (TDS C) (Total PO- ce) (WAD Cy 1) (As) (Sb) (cetals) (As) (Sb) (Sc)	D.O. (mg/L) 0.76 0.78 0.79 0.81 0.79 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B F) (Total Kie anide) (Free Ba) (Be) (Ca	PH 6.13 6.13 6.13 6.13 6.13 6.13 CR BOTTLE NWTPH-GX DD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	DI Water DI Water ORP (mV) -61.3 -61.5 -61.6 61.6 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! Poplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Decon Proced (By Numerica) Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 27.0 27.0 27.1 27.0 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Alconox Was Other curbidity, odor Cond. (uS/cm) 600.0 600.0 600.0 600.3 NALYSIS AI 0) (8020) (N 1) (NWTPH- cutivity) (TDS C) (Total PO- ce) (WAD Cy 1) (As) (Sb) (cetals) (As) (Sb) (Sc)	D.O. (mg/L) 0.76 0.78 0.79 0.81 0.79 CLOWED PERMYPH-G) (MWTPH-G) (MWTP	PH 6.13 6.13 6.13 6.13 6.13 6.13 CR BOTTLE NWTPH-GX DD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	DI Water DI Water ORP (mV) -61.3 -61.5 -61.6 61.6 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! Poplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Decon Proced (By Numerica) Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 27.0 27.0 27.1 27.0 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Alconox Was Other surbidity, odor Cond. (uS/cm) 600.0 600.0 600.0 601.0 600.3 NALYSIS AI () (8020) (N () (NWTPH- () (Total PO- () (WAD Cy () (As) (Sb) (() (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.76 0.78 0.79 0.81 0.79 CLOWED PERMYPH-G) (MWTPH-G) (MWTP	PH 6.13 6.13 6.13 6.13 6.13 6.13 CR BOTTLE NWTPH-GX DD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	DI Water DI Water ORP (mV) -61.3 -61.5 -61.6 61.6 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! Poplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Decon Proced (By Numerica) Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 27.0 27.1 27.0 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Alconox Was Other surbidity, odor Cond. (uS/cm) 600.0 600.0 600.0 601.0 600.3 NALYSIS AI () (8020) (N () (NWTPH- () (Total PO- () (WAD Cy () (As) (Sb) (() (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.76 0.78 0.79 0.81 0.79 CLOWED PERMYPH-G) (MWTPH-G) (MWTP	PH 6.13 6.13 6.13 6.13 6.13 6.13 CR BOTTLE NWTPH-GX DD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	DI Water DI Water ORP (mV) -61.3 -61.5 -61.6 61.6 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! Poplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Decon Proced (By Numerica) Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 27.0 27.0 27.1 27.0 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Alconox Was Other surbidity, odor Cond. (uS/cm) 600.0 600.0 600.0 601.0 600.3 NALYSIS AI () (8020) (N () (NWTPH- () (Total PO- () (WAD Cy () (As) (Sb) (() (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.76 0.78 0.79 0.81 0.79 CLOWED PERMYPH-G) (MWTPH-G) (MWTP	PH 6.13 6.13 6.13 6.13 6.13 6.13 CR BOTTLE NWTPH-GX DD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	DI Water DI Water ORP (mV) -61.3 -61.5 -61.6 61.6 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! Poplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Decon Proced (By Numerica) Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 27.0 27.1 27.0 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Alconox Was Other surbidity, odor Cond. (uS/cm) 600.0 600.0 600.0 601.0 600.3 NALYSIS AI () (8020) (N () (NWTPH- () (Total PO- () (WAD Cy () (As) (Sb) (() (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.76 0.78 0.79 0.81 0.79 CLOWED PERMYPH-G) (MWTPH-G) (MWTP	PH 6.13 6.13 6.13 6.13 6.13 6.13 CR BOTTLE NWTPH-GX DD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	DI Water DI Water ORP (mV) -61.3 -61.5 -61.6 61.6 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! Poplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR
Decon Proced (By Numerica) Replicate 1 2 3 4 Average: QUANTITY 5	Temp (°F/°C) 26.9 27.0 27.1 27.0 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Alconox Was Other surbidity, odor Cond. (uS/cm) 600.0 600.0 600.0 601.0 600.3 NALYSIS AI () (8020) (N () (NWTPH- () (Total PO- () (WAD Cy () (As) (Sb) (() (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.76 0.78 0.79 0.81 0.79 CLOWED PERMYPH-G) (MWTPH-G) (MWTP	PH 6.13 6.13 6.13 6.13 6.13 6.13 CR BOTTLE NWTPH-GX DD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	DI Water DI Water ORP (mV) -61.3 -61.5 -61.6 61.6 TYPE (Circle ago) (BTEX) HCID) (8081) (dity) (Alkalinity) n) (NH3) (NO3/	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! Poplicable or write (HCO3/CO3) (GNO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR



_	e <u>:</u>	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 11 /2021@	1357		
Sample Num	ıber:	RGW247S-	210811		Weather:	SUNNY 80'S			
Landau Repr	resentative:	AHA							
WATER LEV	EL/WELL/PU	IRGE DATA							
Well Condition	n:	Secure (YES)	Damaged (N	O)	Describe:	FLUSHMOUN	Т	
DTW Before I	Purging (ft)	4.16	Time:	1329	Flow through cel	l vol.		GW Meter No.(s	SLOPE 2
Begin Purge:	Date/Time:	8/ 11 /2021	1333	End Purge:	Date/Time:	8/ 11 /2021 @	1355	Gallons Purged:	0.25
Purge water di	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)	pii	(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	
1336	24.4	476.4	0.41	6.15	-1.3		4.22		
1339	26.2	522.0	0.42	6.16	-23.3		4.19		
1342	27.9	543.0	0.37	6.2	-35.9		4.18		
1345	28.6	554.0	0.36	6.21	-43.4		4.19		
1348	29.8	564.0	0.39	6.24	-52.3		4.19		
1351	30.1	570.0	0.39	6.26	-58.0	-			
1353	30.6	576.0	0.39	6.3	-62.7				
SAMPLE COI			Bailer		D/D	DI ADDED			
Sample Collec	cted with:	_	_		Pump/Pump Type		Other	□ Dadiantad	
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene	Other	☐ Dedicated	
Decon Procedi		Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerical	ŕ	Other		NO COLOR	LOW TURD NO	ODOR NO CHE	EN COME DAD	TICLU ATEC	
	ŕ	-	, sheen, etc.):	NO COLOR	, LOW TURB, NO	O ODOR, NO SHE	EN, SOME PAR	TICULATES	
	ŕ	-	p.O.	NO COLOR	, LOW TURB, NO	O ODOR, NO SHE	EN, SOME PAR	TICULATES Ferrous iron	Comments/
Sample Descri	iption (color, t	turbidity, odor	_						Comments/ Observations
Sample Descri	iption (color, t	turbidity, odor	D.O.		ORP	Turbidity	DTW	Ferrous iron	
Sample Descri	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW	Ferrous iron	
Sample Descri	Temp (°F/°C) 30.9	Cond. (uS/cm) 576.0 577.0	D.O. (mg/L) 0.41	pH 6.28 6.28	ORP (mV) -63.1	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3	Temp (°F/°C) 30.9 30.8 30.8	Cond. (uS/cm) 576.0 577.0	D.O. (mg/L) 0.41 0.41	pH 6.28 6.28 6.28	ORP (mV) -63.1 -63.5 -63.9	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3 4	Temp (°F/°C) 30.9 30.8 30.8	Cond. (uS/cm) 576.0 577.0 577.0	D.O. (mg/L) 0.41 0.41 0.41	pH 6.28 6.28 6.28 6.28	ORP (mV) -63.1 -63.5 -63.9 -64.1	Turbidity (NTU)	DTW	Ferrous iron	
Replicate 1 2 3	Temp (°F/°C) 30.9 30.8 30.8	Cond. (uS/cm) 576.0 577.0	D.O. (mg/L) 0.41 0.41	pH 6.28 6.28 6.28	ORP (mV) -63.1 -63.5 -63.9	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 30.9 30.8 30.8 30.8 TYPICAL A	Cond. (uS/cm) 576.0 577.0 577.0 577.0	D.O. (mg/L) 0.41 0.41 0.41 0.41	6.28 6.28 6.28 6.28 6.28 6.28	ORP (mV) -63.1 -63.5 -63.9 -64.1 -63.7	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 30.9 30.8 30.8 30.8 TYPICAL A (8260) (8010	Cond. (uS/cm) 576.0 577.0 577.0 576.8 NALYSIS AI	D.O. (mg/L) 0.41 0.41 0.41 0.41 0.41 0.41 U.WED PE	6.28 6.28 6.28 6.28 6.28 6.28 R BOTTLE NWTPH-GX	ORP (mV) -63.1 -63.5 -63.9 -64.1 -63.7 TYPE (Circle ap	Turbidity (NTU) #DIV/0!	DTW (ft)	Ferrous iron (Fe II) malysis below) WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 30.9 30.8 30.8 30.8 TYPICAL A (8260) (8010) (8270D) (PA	Cond. (uS/cm) 576.0 577.0 577.0 576.8 NALYSIS AI (D) (8020) (NAH) (NWTPH	D.O. (mg/L) 0.41 0.41 0.41 0.41 0.41 LOWED PE	6.28 6.28 6.28 6.28 6.28 6.28 R BOTTLE NWTPH-Gx)	ORP (mV) -63.1 -63.5 -63.9 -64.1 -63.7 TYPE (Circle ap (BTEX) I-HCID) (8081)	#DIV/0!	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) malysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 30.9 30.8 30.8 30.8 TYPICAL A (8260) (8010) (8270D) (PA (pH) (Condu	Cond. (uS/cm) 576.0 577.0 577.0 576.8 NALYSIS AI D) (8020) (N CH) (NWTPHetivity) (TDS)	D.O. (mg/L) 0.41 0.41 0.41 0.41 0.41 CLOWED PE NWTPH-G) (MWTP S) (TSS) (B	6.28 6.28 6.28 6.28 6.28 6.28 R BOTTLE NWTPH-GX) H-Dx) (TPHOD) (Turbic	ORP (mV) -63.1 -63.5 -63.9 -64.1 -63.7 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity)	#DIV/0! #DIV/0! (8141) (Oil & Grid (HCO3/CO3) (Grid (HCO3/CO3))	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) malysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 30.9 30.8 30.8 30.8 30.8 40.8 30.8 40.8 40.8 40.8 40.8 40.8 40.8 40.8 4	Cond. (uS/cm) 576.0 577.0 577.0 576.8 NALYSIS AI (2) (8020) (N (3) (NWTPH (4) (NWTPH (4) (CT) (Total PO2	D.O. (mg/L) 0.41 0.41 0.41 0.41 0.41 LOWED PE WTPH-G) (M-D) (NWTP S) (TSS) (B 4) (Total Kie	6.28 6.28 6.28 6.28 6.28 6.28 R BOTTLE NWTPH-Gx) H-Dx) (TPHOD) (Turbio dahl Nitroger	ORP (mV) -63.1 -63.5 -63.9 -64.1 -63.7 TYPE (Circle ap (BTEX) I-HCID) (8081)	#DIV/0! #DIV/0! (8141) (Oil & Grid (HCO3/CO3) (Grid (HCO3/CO3))	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) malysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 30.9 30.8 30.8 30.8 30.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid	Cond. (uS/cm) 576.0 577.0 577.0 576.8 NALYSIS AI (0) (8020) (N AH) (NWTPH (ctivity) (TDS) (C) (Total PO4 (e) (WAD Cy	D.O. (mg/L) 0.41 0.41 0.41 0.41 0.41 CLOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free	6.28 6.28 6.28 6.28 6.28 R BOTTLE NWTPH-Gx) H-Dx) (TPHOD) (Turbid dahl Nitrogen Cyanide)	ORP (mV) -63.1 -63.5 -63.9 -64.1 -63.7 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! pplicable or write (8141) (Oil & Grid (HCO3/CO3) (Oil (MCO3))	DTW (ft) non-standard and arease) Cl) (SO4) (NO	Ferrous iron (Fe II) 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:	Temp (°F/°C) 30.9 30.8 30.8 30.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanidation (Cotal Metals))	Cond. (uS/cm) 576.0 577.0 577.0 576.8 NALYSIS AI (D) (8020) (N AH) (NWTPH (Intivity) (TDS) (C) (Total PO2e) (WAD Cy () (As) (Sb) (D.O. (mg/L) 0.41 0.41 0.41 0.41 0.41 LLOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.28 6.28 6.28 6.28 6.28 R BOTTLE NWTPH-GX) H-DX) (TPHOD) (Turbidahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -63.1 -63.5 -63.9 -64.1 -63.7 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF ON ONE OF OTHER OF ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 30.9 30.8 30.8 30.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanidation (Cotal Metals))	Cond. (uS/cm) 576.0 577.0 577.0 576.8 NALYSIS AI (0) (8020) (N CH) (NWTPH (ctivity) (TDS) (C) (Total PO4 (e) (WAD Cy (das) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L) 0.41 0.41 0.41 0.41 0.41 LLOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.28 6.28 6.28 6.28 6.28 R BOTTLE NWTPH-GX) H-DX) (TPHOD) (Turbidahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -63.1 -63.5 -63.9 -64.1 -63.7 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF ON ONE OF OTHER OF ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 30.9 30.8 30.8 30.8 30.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 576.0 577.0 577.0 576.8 NALYSIS AI (0) (8020) (N CH) (NWTPH (ctivity) (TDS) (C) (Total PO4 (e) (WAD Cy (das) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L) 0.41 0.41 0.41 0.41 0.41 1.LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.28 6.28 6.28 6.28 6.28 R BOTTLE NWTPH-GX) H-DX) (TPHOD) (Turbidahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -63.1 -63.5 -63.9 -64.1 -63.7 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF ON ONE OF OTHER OF ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 30.9 30.8 30.8 30.8 30.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 576.0 577.0 577.0 576.8 NALYSIS AI () (8020) (N () (NWTPHetivity) (TD) (C) (Total PO4 (e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.41 0.41 0.41 0.41 0.41 1.LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.28 6.28 6.28 6.28 6.28 R BOTTLE NWTPH-GX) H-DX) (TPHOD) (Turbidahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -63.1 -63.5 -63.9 -64.1 -63.7 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF ON ONE OF OTHER OF 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) 30.9 30.8 30.8 30.8 30.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 576.0 577.0 577.0 576.8 NALYSIS AI () (8020) (N () (NWTPHetivity) (TD) (C) (Total PO4 (e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.41 0.41 0.41 0.41 0.41 1.LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.28 6.28 6.28 6.28 6.28 R BOTTLE NWTPH-GX) H-DX) (TPHOD) (Turbidahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -63.1 -63.5 -63.9 -64.1 -63.7 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF 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) 30.9 30.8 30.8 30.8 30.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 576.0 577.0 577.0 576.8 NALYSIS AI () (8020) (N () (NWTPHetivity) (TD) (C) (Total PO4 (e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.41 0.41 0.41 0.41 0.41 1.LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.28 6.28 6.28 6.28 6.28 R BOTTLE NWTPH-GX) H-DX) (TPHOD) (Turbidahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -63.1 -63.5 -63.9 -64.1 -63.7 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF 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) 30.9 30.8 30.8 30.8 30.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 576.0 577.0 577.0 576.8 NALYSIS AI () (8020) (N () (NWTPHetivity) (TD) (C) (Total PO4 (e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.41 0.41 0.41 0.41 0.41 1.LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.28 6.28 6.28 6.28 6.28 R BOTTLE NWTPH-GX) H-DX) (TPHOD) (Turbidahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -63.1 -63.5 -63.9 -64.1 -63.7 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF 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) 30.9 30.8 30.8 30.8 30.8 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 576.0 577.0 577.0 576.8 NALYSIS AI () (8020) (N () (NWTPHetivity) (TD) (C) (Total PO4 (e) (WAD Cy () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.41 0.41 0.41 0.41 0.41 1.LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.28 6.28 6.28 6.28 6.28 R BOTTLE NWTPH-GX) H-DX) (TPHOD) (Turbidahl Nitrogen Cyanide) () (Cd) (Co)	ORP (mV) -63.1 -63.5 -63.9 -64.1 -63.7 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	#DIV/0! #DIV/0! plicable or write (8141) (Oil & Gr (HCO3/CO3) (Gr NO2)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ON ONE OF ON ONE OF O	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	e:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/11 /2021@	1345		
Sample Num	nber:	RGW248I-	210811		Weather:	sunny, 80s			
Landau Repr	resentative:	BXM							
WATER LEV	'EL/WELL/PU	IRGE DATA							
Well Condition	n:	Secure (YES)	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	4.01	Time:	1319	Flow through cel	l vol.		GW Meter No.(s	SLOPE 8
Begin Purge:	Date/Time:	8/11 /2021	1320	End Purge:	Date/Time:	8/ 11 /2021 @	1342	- Gallons Purged:	1
Purge water d	isposed 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
	Purge Goal	ls: Stablizatio	on of Parame		consecutive read	lings within the fo	ollowing limits	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1323	20.7	515	0.13	6.67	-4.9		3.95		
1326	23.3	553	0.13	6.78	-16.9		3.95		
1329	26.7	585	0.14	6.71	-23.7		3.95		
1332	27.0	597	0.14	6.69	-26.6				
1335	27.8	611	0.13	6.63	-30.4				
1338	28.8	623	0.15	6.58	-34.8				
							·		
1341	29.9	636	0.16	6.59	-38.2		. ———		
SAMPLE CO	I LECTION D								
Sample Collection		AIA	Bailer		Pumn/Pumn Tyne	DED BLADDER			
Made of:	cica with.	Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	_
Decon Proced	<u> </u>	Alconox Wa		Tap Rinse		Dedicated	□ outer	Dedicated	
(By Numerica			SII 🗀	rap Kilise	DI Water	Dedicated			
	(I (Irder)	и и Onner							
, •	· ·	Other	. sheen, etc.):						
Sample Descr	· ·	₩	, sheen, etc.):		LORLESS, NO C	DOR, NO SHEEN	, SLIGHTLY EF	FERVESCENT	
	Temp	turbidity, odor	D.O.		ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr	ription (color, t	turbidity, odor		CLEAR, CO					Comments/ Observations
Sample Descr	Temp	turbidity, odor	D.O.	CLEAR, CO	ORP	Turbidity	DTW	Ferrous iron	
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	CLEAR, CO	ORP (mV)	Turbidity	DTW	Ferrous iron	
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	CLEAR, CO pH 6.60	ORP (mV)	Turbidity	DTW	Ferrous iron	
Sample Descr Replicate	Temp (°F/°C) 30.1 30.1	Cond. (uS/cm) 637	D.O. (mg/L) 0.16	CLEAR, CO pH 6.60 6.60	ORP (mV) -38.6	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3	Temp (°F/°C) 30.1 30.1 30.1	Cond. (uS/cm) 637 638	D.O. (mg/L) 0.16 0.16	CLEAR, CO pH 6.60 6.60 6.59	ORP (mV) -38.6 -38.8	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 30.1 30.1 30.4 30.2	Cond. (uS/cm) 637 638 639 638	D.O. (mg/L) 0.16 0.16 0.15 0.16 0.16	CLEAR, CO pH 6.60 6.60 6.59 6.59	ORP (mV) -38.6 -38.8 -38.8 -38.9 -38.8	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 30.1 30.1 30.4 30.2	Cond. (uS/cm) 637 638 639 638 NALYSIS AI	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 0.10	CLEAR, CO pH 6.60 6.60 6.59 6.59 6.60 CR BOTTLE	ORP (mV) -38.6 -38.8 -38.8 -38.9 -38.8 TYPE (Circle ap	Turbidity	DTW (ft)	Ferrous iron (Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 30.1 30.1 30.4 30.2 TYPICAL A (8260) (8010	Cond. (uS/cm) 637 638 638 639 038 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 0.10	CLEAR, CO pH 6.60 6.60 6.59 6.59 6.60 CR BOTTLE NWTPH-GX	ORP (mV) -38.6 -38.8 -38.8 -38.9 -38.8 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II) nalysis below) WA	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 30.1 30.1 30.4 30.2 TYPICAL A (8260) (8010 (8270D) (PA	Cond. (uS/cm) 637 638 639 638 NALYSIS AI (WS/CM) 637 638 639 638 NALYSIS (SAI (SAI	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 0.17 0.16 0.19 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	CLEAR, CO pH 6.60 6.60 6.59 6.59 6.60 CR BOTTLE NWTPH-Gx)	ORP (mV) -38.6 -38.8 -38.9 -38.8 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II) allysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 30.1 30.1 30.4 30.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 637 638 639 638 NALYSIS AI 0) (8020) (NAH) (NWTPH tetivity) (TD	D.O. (mg/L) 0.16 0.16 0.15 0.16 0.16 0.16 CLOWED PE NWTPH-G) (M-D) (NWTP S) (TSS) (B	6.60 6.60 6.59 6.59 6.60 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-DOD) (Turbic	ORP (mV) -38.6 -38.8 -38.9 -38.8 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) plicable or write (8141) (Oil & Grid (HCO3/CO3) (Market of the control of the c	DTW (ft)	Ferrous iron (Fe II) allysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 30.1 30.1 30.4 30.2 TYPICAL A' (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid	Cond. (uS/cm) 637 638 638 638 NALYSIS AI 0) (8020) (N CH) (NWTPH activity) (TD C) (Total PO- ce) (WAD Cy	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 CLOWED PE NWTPH-G) (NWTP S) (TSS) (E 4) (Total Kie vanide) (Free	6.60 6.60 6.59 6.59 6.60 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide)	ORP (mV) -38.6 -38.8 -38.9 -38.8 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & Grid (HCO3/CO3) (ONO2)	non-standard and rease)	Ferrous iron (Fe II) malysis below) WA WA WA Solution	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 30.1 30.1 30.4 30.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 637 638 639 638 NALYSIS AI () (8020) (NAH) (NWTPI () (Total PO- (c) (Total PO- (c) (As) (Sb) (D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 LLOWED PE NWTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.60 6.60 6.59 6.59 6.60 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -38.6 -38.8 -38.9 -38.8 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) plicable or write (8141) (Oil & Grid (HCO3/CO3) (CNO2) Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WIND WA Solution WIND	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 30.1 30.1 30.4 30.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M.	Cond. (uS/cm) 637 638 639 638 NALYSIS AI (M) (8020) (N (M) (NWTPH (Ictivity) (TD (C) (Total PO- (e) (WAD Cy (AS) (Sb) (State) (etals) (AS) (Sl)	D.O. (mg/L) 0.16 0.15 0.16 0.16 0.16 LLOWED PE NWTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.60 6.60 6.59 6.59 6.60 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -38.6 -38.8 -38.9 -38.8 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) plicable or write (8141) (Oil & Grid (HCO3/CO3) (CNO2) Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WIND WA Solution WIND	Observations OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 30.1 30.1 30.4 30.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M. VOC (Boein	Cond. (uS/cm) 637 638 639 638 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.16 0.16 0.15 0.16 0.16 CLOWED PENWTPH-G) (MTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Candon) (Ba) (Be) (Candon) (6.60 6.60 6.59 6.59 6.60 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -38.6 -38.8 -38.9 -38.8 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) plicable or write (8141) (Oil & Grid (HCO3/CO3) (CNO2) Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WIND WA Solution WIND	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 30.1 30.1 30.4 30.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M. VOC (Boein	Cond. (uS/cm) 637 638 639 638 NALYSIS AI (M) (8020) (N (M) (NWTPH (Ictivity) (TD (C) (Total PO- (e) (WAD Cy (AS) (Sb) (State) (etals) (AS) (Sl)	D.O. (mg/L) 0.16 0.16 0.15 0.16 0.16 CLOWED PENWTPH-G) (MTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Candon) (Ba) (Be) (Candon) (6.60 6.60 6.59 6.59 6.60 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -38.6 -38.8 -38.9 -38.8 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) plicable or write (8141) (Oil & Grid (HCO3/CO3) (CNO2) Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WIND WA Solution WIND	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 30.1 30.1 30.4 30.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M. VOC (Boein	Cond. (uS/cm) 637 638 639 638 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.16 0.16 0.15 0.16 0.16 CLOWED PENWTPH-G) (MTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Candon) (Ba) (Be) (Candon) (6.60 6.60 6.59 6.59 6.60 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -38.6 -38.8 -38.9 -38.8 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) plicable or write (8141) (Oil & Grid (HCO3/CO3) (CNO2) Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WIND WA Solution WIND	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 30.1 30.1 30.4 30.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M. VOC (Boein	Cond. (uS/cm) 637 638 639 638 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.16 0.16 0.15 0.16 0.16 CLOWED PENWTPH-G) (MTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Candon) (Ba) (Be) (Candon) (6.60 6.60 6.59 6.59 6.60 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -38.6 -38.8 -38.9 -38.8 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) plicable or write (8141) (Oil & Grid (HCO3/CO3) (CNO2) Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WIND WA Solution WIND	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 30.1 30.1 30.4 30.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 637 638 639 638 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.16 0.16 0.15 0.16 0.16 CLOWED PENWTPH-G) (MTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Candon) (Ba) (Be) (Candon) (6.60 6.60 6.59 6.59 6.60 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -38.6 -38.8 -38.9 -38.8 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) plicable or write (8141) (Oil & Grid (HCO3/CO3) (CNO2) Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WIND WA Solution WIND	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3 Duplicate Sam	Temp (°F/°C) 30.1 30.1 30.4 30.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 637 638 639 638 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.16 0.16 0.15 0.16 0.16 CLOWED PENWTPH-G) (MTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Candon) (Ba) (Be) (Candon) (6.60 6.60 6.59 6.59 6.60 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -38.6 -38.8 -38.9 -38.8 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) plicable or write (8141) (Oil & Grid (HCO3/CO3) (CNO2) Pb) (Mg) (Mn) (non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WIND WA Solution WIND	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 30.1 30.1 30.4 30.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm) 637 638 639 638 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD C) (Total PO- e) (WAD Cy d) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.16 0.16 0.15 0.16 0.16 CLOWED PENWTPH-G) (MTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Candon) (Ba) (Be) (Candon) (6.60 6.60 6.59 6.59 6.60 CR BOTTLE NWTPH-Gx) PH-Dx) (TPH-GD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -38.6 -38.8 -38.9 -38.8 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) pplicable or write: (8141) (Oil & Gr (HCO3/CO3) (Or NO2) Pb) (Mg) (Mn) (Ni) (Or) (Mg) (Mn) (Ni) (Or)	non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WIND WA Solution WIND	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ie:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 12 /2021@	1400		
Sample Nun	nber:	RGW249S-	210812		Weather:	SUNNY, HIGH	80S		
Landau Rep	resentative:	BXM							
WATER LEV	EL/WELL/PU	RGE DATA							
Well Condition	on:	Secure (YES)	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	3.95	Time:	1333	Flow through cel	l vol.		GW Meter No.(s	SLOPE #8
Begin Purge:	Date/Time:	8/ 12 /2021	1334	End Purge:	Date/Time:	8/ 12 /2021 @	1357	Gallons Purged:	1
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
	_					lings within the fo	_	>/= 1 flow	
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1337	23.1	460	0.2	6.47	-1.7		3.94		
1340	25.5	498	0.16	6.5	-11.1		3.95		
1343	27.0	510	0.15	6.52	-15.0		3.94		
1346	27.6	510	0.16	6.52	-16.7				
1349	28.1	508	0.18	6.52	-18.1				
		504	0.22	6.53	-19.6				
1352	28.4								
1355	28.5	504	0.21	6.53	-19.8				
CAN (DIE CO	LIECTION								
Sample Colle	LLECTION D		Bailer		Pump/Pump Type	DIADDED			
Made of:	cted with.	Stainless Ste		PVC	Teflon	Polyethylene	Other	Dedicated	
	. 👝						<u> Ш</u> Ошег	Dedicated	
Decon Proced		Alconox Wa	sn 📋	Tap Rinse	DI Water	Dedicated			
(D., M	.1 ()()	(T) (Alb and							
(By Numerical		Other	shoon ato).	CIEAD CI	CHT VELLOW (COLOR NO ODOI	D NO CHEEN C	MALL DADTICI	II ATEC
			, sheen, etc.):	CLEAR, SL	GHT YELLOW (COLOR, NO ODOI	R, NO SHEEN, S	MALL PARTICU	JLATES
			D.O. (mg/L)	CLEAR, SLI	GHT YELLOW (ORP (mV)	COLOR, NO ODOR Turbidity (NTU)	R, NO SHEEN, S DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	Temp	turbidity, odor	D.O.		ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Desci	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Sample Descri Replicate	Temp (°F/°C) 28.5 28.6	Cond. (uS/cm) 504	D.O. (mg/L) 0.21 0.25	pH 6.53 6.53	ORP (mV) -19.8 -20.0	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3	Temp (°F/°C) 28.5 28.6 28.6	Cond. (uS/cm) 504 503	D.O. (mg/L) 0.21 0.25	pH 6.53 6.53 6.54	ORP (mV) -19.8 -20.0 -20.1	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3 4	Temp (°F/°C) 28.5 28.6 28.6	Cond. (uS/cm) 504 503 503	D.O. (mg/L) 0.21 0.25 0.24	pH 6.53 6.53 6.54 6.53	ORP (mV) -19.8 -20.0 -20.1	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 28.5 28.6 28.6 28.6	Cond. (uS/cm) 504 503 503 503	D.O. (mg/L) 0.21 0.25 0.24 0.23	pH 6.53 6.53 6.54 6.53 6.53	ORP (mV) -19.8 -20.0 -20.1 -20.0 -20.0	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 28.5 28.6 28.6 28.6 TYPICAL A	Cond. (uS/cm) 504 503 503 503 NALYSIS AI	D.O. (mg/L) 0.21 0.25 0.24 0.23 0.23	pH 6.53 6.53 6.54 6.53 6.53 CR BOTTLE	ORP (mV) -19.8 -20.0 -20.1 -20.0 -20.0 TYPE (Circle ap	Turbidity	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 28.5 28.6 28.6 28.6 28.6 (8260) (8010	Cond. (uS/cm) 504 503 503 503 503 NALYSIS AI (0) (8020) (N	D.O. (mg/L) 0.21 0.25 0.24 0.23 0.23 LOWED PE	pH 6.53 6.53 6.54 6.53 6.53 CR BOTTLE NWTPH-GX	ORP (mV) -19.8 -20.0 -20.1 -20.0 -20.0 TYPE (Circle ap (BTEX)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II) nalysis below) WA	Comments/ Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 28.5 28.6 28.6 28.6 28.6 (8260) (8010) (8270D) (PA	Cond. (uS/cm) 504 503 503 503 503 NALYSIS AI 0) (8020) (N	D.O. (mg/L) 0.21 0.25 0.24 0.23 0.23 LOWED PE	6.53 6.53 6.54 6.53 6.53 6.53 CR BOTTLE NWTPH-Gx;	ORP (mV) -19.8 -20.0 -20.1 -20.0 -20.0 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) plicable or write	DTW (ft) non-standard arrease)	Ferrous iron (Fe II) allysis below) WA WA WA	Comments/ Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 28.5 28.6 28.6 28.6 28.6 (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 504 503 503 503 503 NALYSIS AI 0) (8020) (N CH) (NWTPHetivity) (TD:	D.O. (mg/L) 0.21 0.25 0.24 0.23 0.23 LLOWED PE NWTPH-G) (M-D) (NWTP S) (TSS) (B	6.53 6.53 6.53 6.53 6.53 6.53 CR BOTTLE NWTPH-GX PH-Dx) (TPF	ORP (mV) -19.8 -20.0 -20.1 -20.0 -20.0 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) plicable or write (8141) (Oil & Gr (HCO3/CO3) (6	DTW (ft) non-standard arrease)	Ferrous iron (Fe II) allysis below) WA WA WA	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 28.5 28.6 28.6 28.6 28.6 (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 504 503 503 503 503 NALYSIS AI (2) (8020) (NAH) (NWTPH (1001) (TD) (1001) (Total PO-	D.O. (mg/L) 0.21 0.25 0.24 0.23 0.23 LOWED PENWTPH-G) (M-D) (NWTP	6.53 6.53 6.54 6.53 6.53 6.53 R BOTTLE NWTPH-Gx H-Dx) (TPH-DX) (TPH-DX) (TPH-DA) (Turbid dahl Nitroger	ORP (mV) -19.8 -20.0 -20.1 -20.0 -20.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity)	Turbidity (NTU) plicable or write (8141) (Oil & Gr (HCO3/CO3) (6	DTW (ft) non-standard arrease)	Ferrous iron (Fe II) allysis below) WA WA WA	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 28.5 28.6 28.6 28.6 28.6 (8260) (8010) (8270D) (PA) (COD) (Too	Cond. (uS/cm) 504 503 503 503 503 NALYSIS AI (0) (8020) (N (1H) (NWTPH (1ctivity) (TD: (2) (Total PO- (2) (WAD Cy	D.O. (mg/L) 0.21 0.25 0.24 0.23 0.23 LLOWED PE NWTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free	pH 6.53 6.53 6.54 6.53 6.53 CR BOTTLE NWTPH-Gx; PH-Dx) (TPH-GOD) (Turbid dahl Nitroger Cyanide)	ORP (mV) -19.8 -20.0 -20.1 -20.0 -20.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) plicable or write (8141) (Oil & Gr (HCO3/CO3) (6	DTW (ft) non-standard and arrease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solutio	Comments/ Observations OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 28.5 28.6 28.6 28.6 28.6 (8260) (8010) (8270D) (PA) (pH) (Conduction) (Total Cyanidal Cyanidal Colored Metals) (Dissolved Metals)	Cond. (uS/cm) 504 503 503 503 503 NALYSIS AI (WH) (NWTPH (Intivity) (TD) (C) (Total PO-2) (C) (As) (Sb) (etals) (As) (Sb) (started)	D.O. (mg/L) 0.21 0.25 0.24 0.23 0.23 LLOWED PE NWTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.53 6.53 6.54 6.53 6.53 CR BOTTLE NWTPH-GX H-DX) (TPF OD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -19.8 -20.0 -20.1 -20.0 -20.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) plicable or write (8141) (Oil & Gi (HCO3/CO3) (Gi NO2) Pb) (Mg) (Mn) (DTW (ft) non-standard ar rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WING WING WING WING WING WING WING WING	Comments/ Observations OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 28.5 28.6 28.6 28.6 28.6 28.6 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 504 503 503 503 503 NALYSIS AI () (8020) (N () (NWTPHetivity) (TD: () (Total PO- (e) (WAD Cy) () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.21 0.25 0.24 0.23 0.23 LLOWED PE NWTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.53 6.53 6.54 6.53 6.53 CR BOTTLE NWTPH-GX H-DX) (TPF OD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -19.8 -20.0 -20.1 -20.0 -20.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) plicable or write (8141) (Oil & Gi (HCO3/CO3) (Gi NO2) Pb) (Mg) (Mn) (DTW (ft) non-standard ar rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution 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) 28.5 28.6 28.6 28.6 28.6 28.6 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 504 503 503 503 503 NALYSIS AI (WH) (NWTPH (Intivity) (TD) (C) (Total PO-2) (C) (As) (Sb) (etals) (As) (Sb) (started)	D.O. (mg/L) 0.21 0.25 0.24 0.23 0.23 LLOWED PE NWTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.53 6.53 6.54 6.53 6.53 CR BOTTLE NWTPH-GX H-DX) (TPF OD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -19.8 -20.0 -20.1 -20.0 -20.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) plicable or write (8141) (Oil & Gi (HCO3/CO3) (Gi NO2) Pb) (Mg) (Mn) (DTW (ft) non-standard ar rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution 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) 28.5 28.6 28.6 28.6 28.6 28.6 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 504 503 503 503 503 NALYSIS AI () (8020) (N () (NWTPHetivity) (TD: () (Total PO- (e) (WAD Cy) () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.21 0.25 0.24 0.23 0.23 LLOWED PE NWTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.53 6.53 6.54 6.53 6.53 CR BOTTLE NWTPH-GX H-DX) (TPF OD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -19.8 -20.0 -20.1 -20.0 -20.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) plicable or write (8141) (Oil & Gi (HCO3/CO3) (Gi NO2) Pb) (Mg) (Mn) (DTW (ft) non-standard ar rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution 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) 28.5 28.6 28.6 28.6 28.6 28.6 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 504 503 503 503 503 NALYSIS AI () (8020) (N () (NWTPHetivity) (TD: () (Total PO- (e) (WAD Cy) () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.21 0.25 0.24 0.23 0.23 LLOWED PE NWTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.53 6.53 6.54 6.53 6.53 CR BOTTLE NWTPH-GX H-DX) (TPF OD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -19.8 -20.0 -20.1 -20.0 -20.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) plicable or write (8141) (Oil & Gi (HCO3/CO3) (Gi NO2) Pb) (Mg) (Mn) (DTW (ft) non-standard ar rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution 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) 28.5 28.6 28.6 28.6 28.6 28.6 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 504 503 503 503 503 NALYSIS AI () (8020) (N () (NWTPHetivity) (TD: () (Total PO- (e) (WAD Cy) () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.21 0.25 0.24 0.23 0.23 LLOWED PE NWTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.53 6.53 6.54 6.53 6.53 CR BOTTLE NWTPH-GX H-DX) (TPF OD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -19.8 -20.0 -20.1 -20.0 -20.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) plicable or write (8141) (Oil & Gi (HCO3/CO3) (Gi NO2) Pb) (Mg) (Mn) (DTW (ft) non-standard ar rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution 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) 28.5 28.6 28.6 28.6 28.6 28.6 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 504 503 503 503 503 NALYSIS AI () (8020) (N () (NWTPHetivity) (TD: () (Total PO- (e) (WAD Cy) () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.21 0.25 0.24 0.23 0.23 LLOWED PE NWTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.53 6.53 6.54 6.53 6.53 CR BOTTLE NWTPH-GX H-DX) (TPF OD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -19.8 -20.0 -20.1 -20.0 -20.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) plicable or write (8141) (Oil & Gi (HCO3/CO3) (Gi NO2) Pb) (Mg) (Mn) (DTW (ft) non-standard ar rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution 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) 28.5 28.6 28.6 28.6 28.6 28.6 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 504 503 503 503 503 NALYSIS AI () (8020) (N () (NWTPHetivity) (TD: () (Total PO- (e) (WAD Cy) () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.21 0.25 0.24 0.23 0.23 LLOWED PE NWTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.53 6.53 6.54 6.53 6.53 CR BOTTLE NWTPH-GX H-DX) (TPF OD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -19.8 -20.0 -20.1 -20.0 -20.0 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) plicable or write (8141) (Oil & Gi (HCO3/CO3) (Gi NO2) Pb) (Mg) (Mn) (DTW (ft) non-standard ar rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA Solution WA Solution WA Solution WING WING WING WING WING WING WING WING	Comments/ Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ne:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 12 /2021@	1235		
Sample Nun	nber:	RGW250S-	210812		Weather:	SUNNY, 80S			
Landau Rep	resentative:	BXM							
WATER LEV	EL/WELL/PU	RGE DATA							
Well Condition	on:	Secure (YES)	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	4.04	Time:	1208	Flow through cel	l vol.		GW Meter No.(s	SLOPE #8
Begin Purge:	Date/Time:	8/ 12 /2021	1209	End Purge:	Date/Time:	8/ 12 /2021 @	1232	Gallons Purged:	1
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
	_					dings within the fo	_	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1212	20.3	132.4	0.36	6.82	-7.8		4.35		
1215	22.1	134.9	0.46	6.85	-17.2		4.33		
1218	23.5	139.3	0.50	6.96	-35.9		4.26		
1221	24.9	142.3	0.45	6.99	-38.3		4.22		
1224	-	143.5	0.48	6.97	-38.8		4.19		
-	• •					-			
1227	25.8	144.3	0.37	6.96	-38.2		4.18		
							· 		
	LLECTION D								
Sample Colle	cted With:	_	Bailer		Pump/Pump Type				
Made of:		Stainless Ste	el 🛄	PVC	Teflon	Polyethylene	Other	☐ Dedicated	
Decon Proced		Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	d Order)	Other							
	ii Oraci)								
, •		₩	, sheen, etc.):	CLEAR, CO	LORLESS, NO O	DOR, NO SHEEN			
Sample Descr	ription (color,	turbidity, odor				· · · · · · · · · · · · · · · · · · ·		Ferrous iron	Comments/
, •		₩	D.O. (mg/L)	CLEAR, CO	ORP (mV)	DOR, NO SHEEN Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	Temp	turbidity, odor	D.O.		ORP	Turbidity	DTW		
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН 6.95	ORP (mV)	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 25.8 25.9	Cond. (uS/cm) 144.5	D.O. (mg/L) 0.34 0.39	pH 6.95 6.95	ORP (mV) -38.1	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 25.8 25.9 25.9	Cond. (uS/cm) 144.5 144.8	D.O. (mg/L) 0.34 0.39	pH 6.95 6.95 6.95	ORP (mV) -38.1 -38.4 -38.3	Turbidity	DTW		
Replicate 1 2	Temp (°F/°C) 25.8 25.9	Cond. (uS/cm) 144.5	D.O. (mg/L) 0.34 0.39	pH 6.95 6.95	ORP (mV) -38.1	Turbidity	DTW		
Replicate 1 2 3	Temp (°F/°C) 25.8 25.9 25.9	Cond. (uS/cm) 144.5 144.8	D.O. (mg/L) 0.34 0.39	pH 6.95 6.95 6.95	ORP (mV) -38.1 -38.4 -38.3	Turbidity	DTW		
Replicate 1 2 3 4 Average:	Temp (°F/°C) 25.8 25.9 25.9 25.9	Cond. (uS/cm) 144.5 144.8 144.7	D.O. (mg/L) 0.34 0.39 0.35 0.32	pH 6.95 6.95 6.95 6.95 6.95	ORP (mV) -38.1 -38.4 -38.3 -38.0 -38.2	Turbidity	DTW (ft)	(Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 25.8 25.9 25.9 25.9 25.9	Cond. (uS/cm) 144.5 144.8 144.7	D.O. (mg/L) 0.34 0.39 0.35 0.32 0.35	pH 6.95 6.95 6.95 6.95 6.95 6.95	ORP (mV) -38.1 -38.4 -38.3 -38.0 -38.2 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 25.8 25.9 25.9 25.9 25.9 25.9 (8260) (8010 (8270) (PAF	Cond. (uS/cm) 144.5 144.8 144.7 144.7 NALYSIS AI ()) (8021) (N	D.O. (mg/L) 0.34 0.39 0.35 0.32 0.35 LOWED PE	6.95 6.95 6.95 6.95 6.95 RR BOTTLE NWTPH-Gx) -Dx) (TPH-	ORP (mV) -38.1 -38.4 -38.3 -38.0 -38.2 TYPE (Circle approximately (BTEX) HCID) (8081) (Turbidity (NTU) pplicable or write 8141) (Oil & Gre	DTW (ft) non-standard and asse)	nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 25.8 25.9 25.9 25.9 25.9 25.9 25.9 (8260) (8010 (8270) (PAF (pH) (Condu	Cond. (uS/cm) 144.5 144.8 144.7 144.7 NALYSIS AI 0) (8021) (NI I) (NWTPH- ictivity) (TD:	D.O. (mg/L) 0.34 0.39 0.35 0.32 0.35 LOWED PERMYPH-G) (MWTPH-G) (MWTPH	6.95 6.95 6.95 6.95 6.95 R BOTTLE NWTPH-Gx) -Dx) (TPH-I	ORP (mV) -38.1 -38.4 -38.3 -38.0 -38.2 TYPE (Circle ap (BTEX) HCID) (8081) (dity) (Alkalinity)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (0	DTW (ft) non-standard and asse)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 25.8 25.9 25.9 25.9 25.9 25.9 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu	Cond. (uS/cm) 144.5 144.8 144.7 144.7 NALYSIS AI (i) (8021) (NI (i) (NWTPH- detivity) (TD: (ii) (Total PO-	D.O. (mg/L) 0.34 0.39 0.35 0.32 0.35 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie	6.95 6.95 6.95 6.95 6.95 R BOTTLE NWTPH-Gx) -Dx) (TPH-DD) (Turbic dahl Nitroger	ORP (mV) -38.1 -38.4 -38.3 -38.0 -38.2 TYPE (Circle approximately (BTEX) HCID) (8081) (Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (0	DTW (ft) non-standard and asse)	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 25.8 25.9 25.9 25.9 25.9 25.9 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Conduction) (TOC) (Total Cyanidal	Cond. (uS/cm) 144.5 144.8 144.7 144.7 NALYSIS AI (i) (8021) (NI (ii) (NWTPH- (ictivity) (TD: (iii) (Total PO- (iii) (WAD Cy	D.O. (mg/L) 0.34 0.39 0.35 0.32 0.35 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie anide) (Free	6.95 6.95 6.95 6.95 6.95 R BOTTLE NWTPH-Gx) F-Dx) (TPH-IOD) (Turbid dahl Nitrogen Cyanide)	ORP (mV) -38.1 -38.4 -38.3 -38.0 -38.2 TYPE (Circle ap (BTEX) HCID) (8081) (dity) (Alkalinity) (a) (NH3) (NO3/	Turbidity (NTU) oplicable or write 8141) (Oil & Gree (HCO3/CO3) (ONO2)	DTW (ft) non-standard an ase) 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:	Temp (°F/°C) 25.8 25.9 25.9 25.9 25.9 25.9 (8260) (8010 (8270) (PAH (PH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 144.5 144.8 144.7 144.7 NALYSIS AI (D) (8021) (NI (I) (NWTPH- (Ictivity) (TD: (C) (Total PO- (C) (As) (Sb) (D.O. (mg/L) 0.34 0.39 0.35 0.32 0.35 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.95 6.95 6.95 6.95 6.95 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -38.1 -38.4 -38.3 -38.0 -38.2 TYPE (Circle agorithm (Circle) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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:	Temp (°F/°C) 25.8 25.9 25.9 25.9 25.9 25.9 (8260) (8010 (8270) (PAH (PH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 144.5 144.8 144.7 144.7 NALYSIS AI (I) (8021) (NI (I) (NWTPH- (I) (Total PO- (E) (WAD Cy (As) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L) 0.34 0.39 0.35 0.32 0.35 LOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.95 6.95 6.95 6.95 6.95 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -38.1 -38.4 -38.3 -38.0 -38.2 TYPE (Circle agorithm (Circle) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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:	Temp (°F/°C) 25.8 25.9 25.9 25.9 25.9 25.9 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 144.5 144.8 144.7 144.7 NALYSIS AI (I) (8021) (NI (I) (NWTPH- (I) (Total PO- (E) (WAD Cy (As) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L) 0.34 0.39 0.35 0.32 0.35 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.95 6.95 6.95 6.95 6.95 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -38.1 -38.4 -38.3 -38.0 -38.2 TYPE (Circle agorithm (Circle) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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:	Temp (°F/°C) 25.8 25.9 25.9 25.9 25.9 25.9 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 144.5 144.8 144.7 144.7 NALYSIS AI () (8021) (NI () (NWTPH- () (Total PO- () (WAD Cy () (As) (Sb) (() etals) (As) (Sb () g short list)	D.O. (mg/L) 0.34 0.39 0.35 0.32 0.35 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.95 6.95 6.95 6.95 6.95 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -38.1 -38.4 -38.3 -38.0 -38.2 TYPE (Circle agorithm (Circle) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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:	Temp (°F/°C) 25.8 25.9 25.9 25.9 25.9 25.9 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 144.5 144.8 144.7 144.7 NALYSIS AI () (8021) (NI () (NWTPH- () (Total PO- () (WAD Cy () (As) (Sb) (() etals) (As) (Sb () g short list)	D.O. (mg/L) 0.34 0.39 0.35 0.32 0.35 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.95 6.95 6.95 6.95 6.95 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -38.1 -38.4 -38.3 -38.0 -38.2 TYPE (Circle agorithm (Circle) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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:	Temp (°F/°C) 25.8 25.9 25.9 25.9 25.9 25.9 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 144.5 144.8 144.7 144.7 NALYSIS AI () (8021) (NI () (NWTPHactivity) (TD: (C) (Total POde) (WAD Cy) () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.34 0.39 0.35 0.32 0.35 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.95 6.95 6.95 6.95 6.95 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -38.1 -38.4 -38.3 -38.0 -38.2 TYPE (Circle agorithm (Circle) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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	Temp (°F/°C) 25.8 25.9 25.9 25.9 25.9 25.9 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 144.5 144.8 144.7 144.7 NALYSIS AI () (8021) (NI () (NWTPHactivity) (TD: (C) (Total POde) (WAD Cy) () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.34 0.39 0.35 0.32 0.35 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.95 6.95 6.95 6.95 6.95 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -38.1 -38.4 -38.3 -38.0 -38.2 TYPE (Circle agorithm (Circle) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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	Temp (°F/°C) 25.8 25.9 25.9 25.9 25.9 25.9 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 144.5 144.8 144.7 144.7 NALYSIS AI () (8021) (NI () (NWTPHactivity) (TD: (C) (Total POde) (WAD Cy) () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.34 0.39 0.35 0.32 0.35 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.95 6.95 6.95 6.95 6.95 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -38.1 -38.4 -38.3 -38.0 -38.2 TYPE (Circle agorithm (Circle) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gre (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard an ase) 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	Temp (°F/°C) 25.8 25.9 25.9 25.9 25.9 25.9 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 144.5 144.8 144.7 144.7 NALYSIS AI () (8021) (NI () (NWTPHactivity) (TD: (C) (Total POde) (WAD Cy) () (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.34 0.39 0.35 0.32 0.35 LOWED PE NWTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH 6.95 6.95 6.95 6.95 6.95 CR BOTTLE NWTPH-Gx) -Dx) (TPH-IOD) (Turbic dahl Nitrogen Cyanide) a) (Cd) (Co)	ORP (mV) -38.1 -38.4 -38.3 -38.0 -38.2 TYPE (Circle agorithm (Circle) (8081) (dity) (Alkalinity) (NH3) (NO3/4) (Cr) (Cu) (Fe)	Turbidity (NTU) pplicable or write 8141) (Oil & Gree (HCO3/CO3) (Oil) (NO2) (Pb) (Mg) (Mn) (Ni) (Do) (Mg) (Mn) (Ni)	DTW (ft) non-standard an ase) 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	ne:	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 11 /2021@	840		
Sample Nun	nber:	RGW253I-	210811		Weather:	SUNNY, 70S			
Landau Rep	resentative:	BXM							
WATER LEV	/EL/WELL/PU	RGE DATA							
Well Condition	on:	Secure (YES)	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	4.83	Time:	813	Flow through cel	l vol.		GW Meter No.(s	SLOPE 8
	Date/Time:	8/ 11 /2021	815	End Purge:	_	8/ 11 /2021 @	837	Gallons Purged:	1
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
	Purge Goa	ls: Stablizatio	on of Parame		consecutive read	dings within the fo	ollowing limits	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
818	19.3	376.4	0.71	6.31	-20.2		4.82		
821	20.4	388.2	0.75	6.47	-38.9		4.82		
824	20.5	391.0	0.71	6.49	-41.6		4.82		
827	20.6	397.2	0.64	6.5	-46.3				
830		404.6	0.55	6.51	-53.2				
				6.51			· 		
833		406.3	0.54		-55.5				
836	21.1	407.7	0.48	6.52	-57.7				
CAN ENT EL CO	I I DOTTION D								
	OLLECTION D		Bailer		Dump/Dump Trm	DED DIADDED			
Sample Colle Made of:	cted with:	_		PVC	Teflon	DED. BLADDER	Other	Dadiasta	
		Stainless Ste	=			Polyethylene	□ Other	☐ Dedicated	
Decon Proced	_	Alconox Wa	sh 📙	Tap Rinse	DI Water	Dedicated			
IBV Numerica									
(By Numerica		Other	1	CLEAR CO	LODIEGG NO O	DOD NO CHEEN	CLICUTIVE	EEDVEGGENT	
			, sheen, etc.):	CLEAR, CO	LORLESS, NO O	DOR, NO SHEEN	, SLIGHTLY EF	FERVESCENT	_
	Temp	turbidity, odor	D.O.	CLEAR, CO	ORP	Turbidity	DTW	Ferrous iron	Comments/ Observations
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)				Comments/ Observations
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm) 408.1	D.O. (mg/L)	рН 6.52	ORP (mV)	Turbidity	DTW	Ferrous iron	
Replicate 1 2	Temp (°F/°C) 21.1 21.2	Cond. (uS/cm) 408.1	D.O. (mg/L) 0.47	pH 6.52 6.52	ORP (mV) -58.3	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3	Temp (°F/°C) 21.1 21.2 21.2	Cond. (uS/cm) 408.1 407.7 407.9	D.O. (mg/L) 0.47 0.51	pH 6.52 6.52 6.52	ORP (mV) -58.3 -58.5	Turbidity	DTW	Ferrous iron	
Replicate 1 2	Temp (°F/°C) 21.1 21.2	Cond. (uS/cm) 408.1	D.O. (mg/L) 0.47	pH 6.52 6.52	ORP (mV) -58.3	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3	Temp (°F/°C) 21.1 21.2 21.2	Cond. (uS/cm) 408.1 407.7 407.9	D.O. (mg/L) 0.47 0.51	pH 6.52 6.52 6.52	ORP (mV) -58.3 -58.5	Turbidity	DTW	Ferrous iron	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.1 21.2 21.2 21.2 21.2	Cond. (uS/cm) 408.1 407.7 407.9 408.3 408.0	D.O. (mg/L) 0.47 0.51 0.49 0.48	pH 6.52 6.52 6.52 6.52 6.52	ORP (mV) -58.3 -58.5 -58.7 -58.9	Turbidity	DTW (ft)	Ferrous iron (Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.1 21.2 21.2 21.2 21.2	Cond. (uS/cm) 408.1 407.7 407.9 408.3 408.0	D.O. (mg/L) 0.47 0.51 0.49 0.48 0.49	pH 6.52 6.52 6.52 6.52 6.52 6.52	ORP (mV) -58.3 -58.5 -58.7 -58.9 -58.6 TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.1 21.2 21.2 21.2 21.2 21.2 (8260) (8010	Cond. (uS/cm) 408.1 407.7 407.9 408.3 408.0 NALYSIS AI	D.O. (mg/L) 0.47 0.51 0.49 0.48 0.49 LOWED PE	6.52 6.52 6.52 6.52 6.52 6.52 RBOTTLE	ORP (mV) -58.3 -58.5 -58.7 -58.9 -58.6 TYPE (Circle approximately (BTEX)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 21.1 21.2 21.2 21.2 21.2 21.2 (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 408.1 407.7 407.9 408.3 408.0 NALYSIS AI (D) (8020) (N AH) (NWTPHetivity) (TD:	D.O. (mg/L) 0.47 0.51 0.49 0.48 0.49 LOWED PE WYPH-G) (WTP S) (TSS) (B	6.52 6.52 6.52 6.52 6.52 CR BOTTLE NWTPH-Gx PH-Dx) (TPF	ORP (mV) -58.3 -58.5 -58.7 -58.9 -58.6 TYPE (Circle aportion (BTEX) I-HCID) (8081) dity) (Alkalinity)	Turbidity (NTU) pplicable or write (8141) (Oil & G	DTW (ft)	Ferrous iron (Fe II) malysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 21.1 21.2 21.2 21.2 21.2 21.2 (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 408.1 407.7 407.9 408.3 408.0 NALYSIS AI (b) (8020) (NALYSIS AI (c) (Total PO-	D.O. (mg/L) 0.47 0.51 0.49 0.48 0.49 LOWED PENTPH-G) (M-D) (NWTP	6.52 6.52 6.52 6.52 6.52 6.52 R BOTTLE NWTPH-Gx H-Dx) (TPH-DX) (TPH-DX) (Turbid dahl Nitroger	ORP (mV) -58.3 -58.5 -58.7 -58.9 -58.6 TYPE (Circle ap (BTEX) I-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & G	DTW (ft)	Ferrous iron (Fe II) malysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 21.1 21.2 21.2 21.2 21.2 21.2 TYPICAL A (8260) (8010 (8270D) (PA (COD) (TOO (Total Cyanid	Cond. (uS/cm) 408.1 407.7 407.9 408.3 408.0 NALYSIS AI (D) (8020) (N AH) (NWTPH (ctivity) (TD) (C) (Total PO-	D.O. (mg/L) 0.47 0.51 0.49 0.48 0.49 LLOWED PE WTPH-G) (NWTP S) (TSS) (E 4) (Total Kie ranide) (Free	6.52 6.52 6.52 6.52 6.52 CR BOTTLE NWTPH-Gx, PH-Dx) (TPH-GOD) (Turbid dahl Nitroger Cyanide)	ORP (mV) -58.3 -58.5 -58.7 -58.9 -58.6 TYPE (Circle ap (BTEX) I-HCID) (8081) dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G (HCO3/CO3) (O	DTW (ft) non-standard and arecase) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ONE OF THE OR STATE OF THE OF	Observations OR OR OR OR OR OR OR OR OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 21.1 21.2 21.2 21.2 21.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 408.1 407.7 407.9 408.3 408.0 NALYSIS AI (D) (8020) (NAH) (NWTPHetivity) (TD: (C) (Total PO- (e) (WAD Cy () (As) (Sb) (D.O. (mg/L) 0.47 0.51 0.49 0.48 0.49 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.52 6.52 6.52 6.52 6.52 CR BOTTLE NWTPH-GX H-DX) (TPF OD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -58.3 -58.5 -58.7 -58.9 -58.6 TYPE (Circle ago (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (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) 21.1 21.2 21.2 21.2 21.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 408.1 407.7 407.9 408.3 408.0 NALYSIS AI (NWTPHetivity) (TD: (C) (Total PO- (e) (WAD Cy (das) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L) 0.47 0.51 0.49 0.48 0.49 LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	pH 6.52 6.52 6.52 6.52 6.52 CR BOTTLE NWTPH-GX H-DX) (TPF OD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -58.3 -58.5 -58.7 -58.9 -58.6 TYPE (Circle ago (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (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) 21.1 21.2 21.2 21.2 21.2 21.2 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 408.1 407.7 407.9 408.3 408.0 NALYSIS AI (NWTPHetivity) (TD: (C) (Total PO- (e) (WAD Cy (das) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L) 0.47 0.51 0.49 0.48 0.49 LOWED PENWTPH-G) (M-D) (NWTP S) (TSS) (Bd) (Total Kie ranide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH 6.52 6.52 6.52 6.52 6.52 CR BOTTLE NWTPH-GX H-DX) (TPF OD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -58.3 -58.5 -58.7 -58.9 -58.6 TYPE (Circle ago (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (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) 21.1 21.2 21.2 21.2 21.2 21.2 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 408.1 407.7 407.9 408.3 408.0 NALYSIS AI () (8020) (N AH) (NWTPHetrivity) (TD: (C) (Total POde) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.47 0.51 0.49 0.48 0.49 LOWED PENWTPH-G) (M-D) (NWTP S) (TSS) (Bd) (Total Kie ranide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH 6.52 6.52 6.52 6.52 6.52 CR BOTTLE NWTPH-GX H-DX) (TPF OD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -58.3 -58.5 -58.7 -58.9 -58.6 TYPE (Circle ago (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (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) 21.1 21.2 21.2 21.2 21.2 21.2 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 408.1 407.7 407.9 408.3 408.0 NALYSIS AI () (8020) (N AH) (NWTPHetrivity) (TD: (C) (Total POde) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.47 0.51 0.49 0.48 0.49 LOWED PENWTPH-G) (M-D) (NWTP S) (TSS) (Bd) (Total Kie ranide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH 6.52 6.52 6.52 6.52 6.52 CR BOTTLE NWTPH-GX H-DX) (TPF OD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -58.3 -58.5 -58.7 -58.9 -58.6 TYPE (Circle ago (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (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) 21.1 21.2 21.2 21.2 21.2 21.2 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 408.1 407.7 407.9 408.3 408.0 NALYSIS AI () (8020) (N AH) (NWTPHetrivity) (TD: (C) (Total POde) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.47 0.51 0.49 0.48 0.49 LOWED PENWTPH-G) (M-D) (NWTP S) (TSS) (Bd) (Total Kie ranide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH 6.52 6.52 6.52 6.52 6.52 CR BOTTLE NWTPH-GX H-DX) (TPF OD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -58.3 -58.5 -58.7 -58.9 -58.6 TYPE (Circle ago (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (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) 21.1 21.2 21.2 21.2 21.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 408.1 407.7 407.9 408.3 408.0 NALYSIS AI () (8020) (N AH) (NWTPHetrivity) (TD: (C) (Total POde) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.47 0.51 0.49 0.48 0.49 LOWED PENWTPH-G) (M-D) (NWTP S) (TSS) (Bd) (Total Kie ranide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH 6.52 6.52 6.52 6.52 6.52 CR BOTTLE NWTPH-GX H-DX) (TPF OD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -58.3 -58.5 -58.7 -58.9 -58.6 TYPE (Circle ago (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (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 Duplicate Sar	Temp (°F/°C) 21.1 21.2 21.2 21.2 21.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 408.1 407.7 407.9 408.3 408.0 NALYSIS AI () (8020) (N AH) (NWTPHetrivity) (TD: (C) (Total POde) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.47 0.51 0.49 0.48 0.49 LOWED PENWTPH-G) (M-D) (NWTP S) (TSS) (Bd) (Total Kie ranide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH 6.52 6.52 6.52 6.52 6.52 CR BOTTLE NWTPH-GX H-DX) (TPF OD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -58.3 -58.5 -58.7 -58.9 -58.6 TYPE (Circle ago (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) pplicable or write (8141) (Oil & G (HCO3/CO3) (6 NO2) (Pb) (Mg) (Mn) (DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (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) 21.1 21.2 21.2 21.2 21.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 408.1 407.7 407.9 408.3 408.0 NALYSIS AI () (8020) (N AH) (NWTPHetrivity) (TD: (C) (Total POde) (WAD Cy) (AS) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L) 0.47 0.51 0.49 0.48 0.49 LOWED PENWTPH-G) (M-D) (NWTP S) (TSS) (Bd) (Total Kie ranide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH 6.52 6.52 6.52 6.52 6.52 CR BOTTLE NWTPH-GX H-DX) (TPF OD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV) -58.3 -58.5 -58.7 -58.9 -58.6 TYPE (Circle ago (BTEX) I-HCID) (8081) dity) (Alkalinity) () (NH3) (NO3/	Turbidity (NTU) oplicable or write (8141) (Oil & G. (HCO3/CO3) (Oil NO2) (Pb) (Mg) (Mn) (Ni) (Oil NO3/CO3) (Oil NO3/CO3)	DTW (ft) non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA NO2) (F)	Observations OR OR OR OR OR OR OR OR OR OR



Project Nam	ne <u>:</u>	Boeing Ren	nton		Project Number	er:	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 10 /2021@			
Sample Nun	nber:	RGW263S-	- 210810		Weather:	sunny, 70s			
Landau Rep	resentative:	BXM							
WATERIEV	VEL/WELL/PU	IRGE DATA							
WATER EE		Secure (YES	2)	Damaged (N	(O)	Describe:	Flush Mount		
		•		Ο ,	,		Trush Would	CWA N. A.	CL ODE 0
DTW Before		7.65	Time:	923	e			GW Meter No.(s	
-	Date/Time:			End Purge:		8/ 10 /2021 @	NA NA	Gallons Purged:	
Purge water of	disposed 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
						dings within the fo		>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
	_								
	W	ATER	LEV	EL O	NLY				
					<u> </u>				
					-				
•									
						-			
					-	-	-		
SAMPLE CO	DLLECTION D	OATA							
Sample Colle	ected With:		Bailer		Pump/Pump Type	e			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee	dure:	Alconox Wa	sh	Tap Rinse	DI Water	Dedicated			
(By Numerica	101)			•	42	_			
	al Order)	Other							
. •		Other	r sheen etc):						
. •	ription (color,	₩	r, sheen, etc.):						
. •		₩	r, sheen, etc.):	рН	ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descri	ription (color,	turbidity, odo	· · · · · · · ·		ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descri	ription (color,	turbidity, odor	D.O.			•			
Sample Describerate Replicate	ription (color,	turbidity, odor	D.O.			•			
Sample Descri Replicate	ription (color,	turbidity, odor	D.O.			•			
Sample Describerate Replicate	ription (color,	turbidity, odor	D.O.			•			
Replicate 1 2	ription (color,	turbidity, odor	D.O.			•			
Replicate 1 2 3	ription (color,	turbidity, odor	D.O.			•			
Replicate 1 2 3 4 Average:	Temp (°F/°C) #DIV/0!	Cond. (uS/cm) #DIV/0!	D.O. (mg/L) #DIV/0!	pH	(mV) 	(NTU) #DIV/0!	(ft)	(Fe II)	
Replicate 1 2 3 4	Temp (°F/°C) #DIV/0!	Cond. (uS/cm) #DIV/0!	D.O. (mg/L) #DIV/0!	pH #DIV/0! ER BOTTLE	#DIV/0!	(NTU)	(ft)	(Fe II)	Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) #DIV/0! TYPICAL A (8260) (801)	#DIV/0! NALYSIS AI (0) (8020) (1	#DIV/0!	#DIV/0! ER BOTTLE (NWTPH-Gx	#DIV/0! TYPE (Circle ap) (BTEX)	#DIV/0!	(ft)	nalysis below)	Observations OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (801)	#DIV/0! **NALYSIS AI 0) (8020) (1) AH) (NWTPI	#DIV/0! LLOWED PP	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPF	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081)	#DIV/0! pplicable or write (8141) (Oil & Gr	non-standard at	nalysis below) WA WA WA	Observations
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (8010 (8270D) (P4) (pH) (Condu	#DIV/0! NALYSIS AI (0) (8020) (1) AH) (NWTPH	#DIV/0! LLOWED PH NWTPH-G) (NWTI S) (TSS) (E	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity	#DIV/0! pplicable or write: (8141) (Oil & Gi) (HCO3/CO3) (0	non-standard at	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (801) (8270D) (P4) (COD) (TOO	#DIV/0! NALYSIS AI (0) (8020) (I AH) (NWTPI	#DIV/0! LLOWED PINWTPH-G) (NWTPH-G) (NWTPH-G) (TSS) (TSS) (E4) (Total Kie	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPF BOD) (Turbi	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081)	#DIV/0! pplicable or write: (8141) (Oil & Gi) (HCO3/CO3) (0	non-standard at	nalysis below) WA WA WA	Observations OR
Replicate 1 2 3 4 Average:	#DIV/0! #TYPICAL A (8260) (8010) (8270D) (PA) (COD) (TOO) (Total Cyanic	#DIV/0! #DIV/0! NALYSIS AI 0) (8020) (I AH) (NWTPI activity) (TD C) (Total PO-	#DIV/0! LLOWED PINWTPH-G) (NWTPH-S) (TSS) (E4) (Total Kievanide) (Freezanide) (Freezanide)	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitrogen Cyanide)	#DIV/0! TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity a) (NH3) (NO3.	#DIV/0! #DIV/0! pplicable or write: (8141) (Oil & Gi) (HCO3/CO3) (O/NO2)	non-standard and rease) CI) (SO4) (NO	(Fe II) nalysis below) WA WA O WA O NO2) (F)	Observations 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) (I AH) (NWTPI cletivity) (TD C) (Total PO- de) (WAD Cy) (As) (Sb) (#DIV/0! LLOWED PHOWTPH-G) (NWTI S) (TSS) (E4) (Total Kiedyanide) (Freedy Ba) (Be) (Call Street)	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger et Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (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 **O) (8020) (t) AH) (NWTPH **Letivity) (TD C) (Total PO- **de) (WAD Cy) (As) (Sb) (**tetals) (As) (Sl)	#DIV/0! LLOWED PHOWTPH-G) (NWTI S) (TSS) (E4) (Total Kiedyanide) (Freedy Ba) (Be) (Call Street)	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger et Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (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
Replicate 1 2 3 4 Average:	#DIV/0! TYPICAL A (8260) (8010) (8270D) (PA (COD) (TOO (Total Cyanic (Total Metals (Dissolved M	#DIV/0! #DIV/0! NALYSIS AI () (8020) (! AH) (NWTPI activity) (TD C) (Total PO- de) (WAD Cy) (As) (Sb) (detals) (As) (Sl ag short list)	#DIV/0! LLOWED PI NWTPH-G) (NWTI S) (TSS) (E 4) (Total Kie /anide) (Free (Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger et Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (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) (8010) (8270D) (PA (COD) (TOO (Total Cyanic (Total Metals (Dissolved M	#DIV/0! #DIV/0! **NALYSIS AI **O) (8020) (t) AH) (NWTPH **Letivity) (TD C) (Total PO- **de) (WAD Cy) (As) (Sb) (**tetals) (As) (Sl)	#DIV/0! LLOWED PI NWTPH-G) (NWTI S) (TSS) (E 4) (Total Kie /anide) (Free (Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger et Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (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) (8010) (8270D) (PA (COD) (TOO (Total Cyanic (Total Metals (Dissolved M	#DIV/0! #DIV/0! NALYSIS AI () (8020) (! AH) (NWTPI activity) (TD C) (Total PO- de) (WAD Cy) (As) (Sb) (detals) (As) (Sl ag short list)	#DIV/0! LLOWED PI NWTPH-G) (NWTI S) (TSS) (E 4) (Total Kie /anide) (Free (Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger et Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (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) (8010) (8270D) (PA (COD) (TOO (Total Cyanic (Total Metals (Dissolved M	#DIV/0! #DIV/0! NALYSIS AI () (8020) (! AH) (NWTPI activity) (TD C) (Total PO- de) (WAD Cy) (As) (Sb) (detals) (As) (Sl ag short list)	#DIV/0! LLOWED PI NWTPH-G) (NWTI S) (TSS) (E 4) (Total Kie /anide) (Free (Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger et Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (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) (8010) (8270D) (PA (COD) (TOO (Total Cyanic (Total Metals (Dissolved M	#DIV/0! #DIV/0! NALYSIS AI () (8020) (! AH) (NWTPI activity) (TD C) (Total PO- de) (WAD Cy) (As) (Sb) (detals) (As) (Sl ag short list)	#DIV/0! LLOWED PI NWTPH-G) (NWTI S) (TSS) (E 4) (Total Kie /anide) (Free (Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger et Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (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 (PH) (Condu (Total Cyanica (Total Metals (Dissolved M VOC (Boein Methane Eth	#DIV/0! #DIV/0! NALYSIS AI () (8020) (! AH) (NWTPI activity) (TD C) (Total PO- de) (WAD Cy) (As) (Sb) (detals) (As) (Sl ag short list)	#DIV/0! LLOWED PI NWTPH-G) (NWTI S) (TSS) (E 4) (Total Kie /anide) (Free (Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger et Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (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! #DIV/0! TYPICAL A (8260) (801) (8270D) (PA (PH) (Condu (Total Cyanica (Total Metals (Dissolved M VOC (Boein Methane Eth	#DIV/0! #DIV/0! NALYSIS AI () (8020) (! AH) (NWTPI activity) (TD C) (Total PO- de) (WAD Cy) (As) (Sb) (detals) (As) (Sl ag short list)	#DIV/0! LLOWED PI NWTPH-G) (NWTI S) (TSS) (E 4) (Total Kie /anide) (Free (Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH BOD) (Turbi edahl Nitroger et Cyanide) a) (Cd) (Co)	#DIV/0! TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity) (NH3) (NO3.	#DIV/0! #DIV/0! (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (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 (PH) (Condu (Total Cyanica (Total Metals (Dissolved M VOC (Boein Methane Eth	#DIV/0! #DIV/0! NALYSIS AI () (8020) (! AH) (NWTPI activity) (TD C) (Total PO- de) (WAD Cy) (As) (Sb) (detals) (As) (Sl ag short list)	#DIV/0! LLOWED PI NWTPH-G) (NWTI S) (TSS) (E 4) (Total Kie /anide) (Free (Ba) (Be) (Ca b) (Ba) (Be) (Ca	#DIV/0! ER BOTTLE (NWTPH-Gx PH-Dx) (TPH 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! (8141) (Oil & Gr.) (HCO3/CO3) (Gr.) (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	ne:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Aug-21			Date/Time:	8/ 10 /2021@	1000		
Sample Nun	mber:	RGW264S-	210810		Weather:	SUNNY, 70S			
Landau Rep	resentative:	BXM							
WATER LEV	/EL/WELL/PU	JRGE DATA							
Well Condition	on:	Secure (YES)	Damaged (N	(O)	Describe:	Flush Mount		
DTW Before	Purging (ft)	6.66	Time:	929	Flow through ce	l vol.		GW Meter No.(s	s SLOPE 8
	0 0 0	8/ 10 /2021	933	End Purge:	C	8/ 10 /2021 @	955	Gallons Purged:	1
Purge water d			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	ENT SYSTEM
8	•		-		Ü	_			
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	` '		ters for three	` /	dings within the fo	` '	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
936	21.2	745	0.78	6.08	-58.6		6.60		
939	20.9	740	0.64	6.13	-55.5		6.69		
942	21.3	730	2.75	6.31	-46.3		7.90		Air in line, well going dry
945		714	1.33	6.20	-37.0		8.10		, , ,
	-						·		
948	19.7	707	0.57	6.17	-37.2		8.28		
951	19.3	702	0.46	6.21	-39.6		8.52		
954	19.2	699	0.47	6.21	-39.7		8.70		
SAMPLE CO	LLECTION D	ATA							
Sample Colle	cted With:		Bailer		Pump/Pump Type	peri pump			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee	dure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	al Order)	Other	_			_			
	/	ш							
Sample Descr	, i	-	, sheen, etc.):	CLEAR, CO	LORLESS TO SI	IGHTLY YELLOV	W, NO ODOR, N	IO SHEEN, EFFE	RVESCENT
Sample Descri	, i	-	, sheen, etc.):	CLEAR, CO		IGHTLY YELLOV	W, NO ODOR, N	IO SHEEN, EFFE	RVESCENT
Sample Descri	ription (color, t	turbidity, odor	D.O.		CK SOLIDS ORP	Turbidity	DTW	Ferrous iron	Comments/
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	SOME BLA	ORP (mV)				
	ription (color, t	turbidity, odor	D.O.	SOME BLA	CK SOLIDS ORP	Turbidity	DTW	Ferrous iron	Comments/
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	SOME BLA	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pH 6.21	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2	Temp (°F/°C) 19.2	Cond. (uS/cm) 697	D.O. (mg/L) 0.46	6.21 6.21	CK SOLIDS ORP (mV) -39.7	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3 4	Temp (°F/°C) 19.2 19.2 19.2	Cond. (uS/cm) 697 698 698	D.O. (mg/L) 0.46 0.49 0.48	6.21 6.21 6.21 6.21	CK SOLIDS ORP (mV) -39.7 -39.7 -40.1	Turbidity	DTW	Ferrous iron	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 19.2 19.2 19.2 19.3 19.2	Cond. (uS/cm) 697 698 698 698	D.O. (mg/L) 0.46 0.49 0.48 0.49	6.21 6.21 6.21 6.21 6.21 6.21	CK SOLIDS ORP (mV) -39.7 -39.7 -40.1 -40.0 -39.9	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate 1 2 3 4 Average:	Temp (°F/°C) 19.2 19.2 19.2 19.3 19.2 TYPICAL A	Cond. (uS/cm) 697 698 698 698	D.O. (mg/L) 0.46 0.49 0.48 0.49	6.21 6.21 6.21 6.21 6.21 6.21 6.21	CK SOLIDS ORP (mV) -39.7 -39.7 -40.1 -40.0 -39.9 TYPE (Circle a)	Turbidity	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate 1 2 3 4 Average:	Temp (°F/°C) 19.2 19.2 19.2 19.3 19.2 TYPICAL A (8260) (8010	Cond. (uS/cm) 697 698 698 698 698 NALYSIS AI (0) (8020) (N	D.O. (mg/L) 0.46 0.49 0.48 0.49 0.48 LOWED PE	6.21 6.21 6.21 6.21 6.21 6.21 6.21 REPORTLE	CK SOLIDS ORP (mV) -39.7 -39.7 -40.1 -40.0 -39.9 TYPE (Circle aport) (BTEX)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II) nalysis below) WA	Comments/ Observations OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 19.2 19.2 19.3 19.2 TYPICAL A (8260) (8010 (8270D) (PA	Cond. (uS/cm) 697 698 698 698 698 098 NALYSIS AI 0) (8020) (NAH) (NWTPE	D.O. (mg/L) 0.46 0.49 0.48 0.49 0.48 LOWED PE	6.21 6.21 6.21 6.21 6.21 6.21 6.21 6.21	CK SOLIDS ORP (mV) -39.7 -39.7 -40.1 -40.0 -39.9 TYPE (Circle aport) (BTEX) H-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & Gr	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) malysis below) WA WA WA	Comments/ Observations
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 19.2 19.2 19.3 19.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 697 698 698 698 698 00 (8020) (NAH) (NWTPHetivity) (TD:	D.O. (mg/L) 0.46 0.49 0.48 0.49 0.48 LOWED PE WYPH-G) (WTP S) (TSS) (B	6.21 6.21 6.21 6.21 6.21 6.21 6.21 6.21	CK SOLIDS ORP (mV) -39.7 -39.7 -40.1 -40.0 -39.9 TYPE (Circle aport) (BTEX) I-HCID) (8081) dity) (Alkalinity	Turbidity (NTU) pplicable or write (8141) (Oil & Gr (HCO3/CO3) (6	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) malysis below) WA WA WA	Comments/ Observations OR OR
Replicate 1 2 3 4 Average:	Temp (°F/°C) 19.2 19.2 19.2 19.3 19.2 TYPICAL A (8260) (8010 (8270D) (PA (PH) (Conduction))	Cond. (uS/cm) 697 698 698 698 698 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD: C) (Total PO-	D.O. (mg/L) 0.46 0.49 0.48 0.49 0.48 LOWED PENTPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (TSS) (TSS) (EM-T) (EM-T	6.21 6.21 6.21 6.21 6.21 6.21 6.21 6.21	CK SOLIDS ORP (mV) -39.7 -39.7 -40.1 -40.0 -39.9 TYPE (Circle aport) (BTEX) H-HCID) (8081)	Turbidity (NTU) pplicable or write (8141) (Oil & Gr (HCO3/CO3) (6	DTW (ft) non-standard and arease)	Ferrous iron (Fe II) malysis below) WA WA WA	Comments/ Observations OR OR
Replicate 1 2 3 4 Average: QUANTITY 3	Temp (°F/°C) 19.2 19.2 19.2 19.3 19.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid	Cond. (uS/cm) 697 698 698 698 698 NALYSIS AI (0) (8020) (N AH) (NWTPH (ctivity) (TD) (C) (Total PO-	D.O. (mg/L) 0.46 0.49 0.48 0.49 0.48 LOWED PE WTPH-G) (NWTP S) (TSS) (E 4) (Total Kie ranide) (Free	6.21 6.21 6.21 6.21 6.21 6.21 CR BOTTLE NWTPH-GX; PH-Dx) (TPH-GX) GDD) (Turbid dahl Nitroger Cyanide)	CK SOLIDS ORP (mV) -39.7 -39.7 -40.1 -40.0 -39.9 TYPE (Circle aportion (Circle aport	Turbidity (NTU) pplicable or write (8141) (Oil & Gr (HCO3/CO3) (6	DTW (ft) non-standard and arease) CI) (SO4) (NO	Ferrous iron (Fe II) malysis below) WA WA WA ONE STATE OF THE STA	Comments/ Observations OR OR OR OR OR OR OR OR OR OR
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Appendix C

Data Validation Memos



Memo

To: Kathleen Goodman, Project Manager Project:

C:

PS20203450.2021

From: Chelsea Foster

Project File

Tel: (206) 342-1760 Fax: (206) 342-1761

Date: August 24, 2021

Subject: Summary Data Quality Review

August 2021 Boeing Renton Groundwater Sampling

SWMU-168

ARI Work Order Number: 21H0114

This memo presents the summary data quality review of one primary groundwater sample and one trip blank sample collected on August 10, 2021. 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 volatile organic compounds (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
Tripblank-210810	21H0114-01	Vinyl chloride
RGW230I-210810	21H0114-02	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 August 10, 2021. The temperature of the cooler was recorded upon receipt and was below the maximum acceptable temperature of 6 degrees Celsius (°C).

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 except as noted:

One surrogate, 1,2-dichloroethane-d4, was above control limits for continuing calibrations in both samples as well as the analysis blank, LCS, and LCSD. This indicates a slight positive bias for the VOC in this analysis. The result should be flagged with a "J" for reporting.

4. LCS/LCSD – Acceptable as noted:

One surrogate, 1,2-dichloroethane-d4, was above continuing calibration range for the LCS and LCSD, indicating a slight positive bias in the analysis. The affected results are already flagged for use due to the surrogate.

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 21H0114 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	Reason for Qualification	Qualified Result
Tripblank-210810	Vinyl chloride	Surrogate Calibration	20.0 UJ ng/L
RGW230I-210810	Vinyl chloride	Surrogate Calibration	359 J ng/L

Abbreviations

ng/L = nanograms per liter

J = The value is an estimate

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

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.



Memo

Date:

To: Kathleen Goodman, Project Manager

Project:

PS20203450.2021

From: Chelsea Foster

c:

Project File

Tel: (206) 342-1760 Fax: (206) 342-1761

August 25, 2021

Subject: Summary Data Quality Review

August 2021 Boeing Renton Groundwater Sampling

SWMU-172/174

ARI Group Number: 21H0121

This memo presents the summary data quality review of nine primary groundwater samples, one groundwater field duplicate, and one trip blank sample collected on August 10, 2021. 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
RGW232S-210810	21H0121-01	all
RGW153S-210810	21H0121-02	all
RGW226S-210810	21H0121-03	all
RGW173S-210810	21H0121-04	all
RGW152S-210810	21H0121-05	all
RGWDUP1-210810	21H0121-06	all
RGW172S-210810	21H0121-07	all
RGW234S-210810	21H0121-08	all
RGW236S-210810	21H0121-09	all
RGW235I-210810	21H0121-10	all
TripBlank-210810	21H0121-11	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 August 10, 2021. The temperatures of the coolers were recorded upon receipt and were below the maximum acceptable temperature of 6 degrees Celsius.

Organic analyses

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

1. Preservation and Holding Times – Acceptable as noted:

One of the vials from the sample RGW236S-210810 had a bubble upon receipt, but since there were two vials for this sample, the analysis could be performed on the other vial and the results are not flagged for use.

2. Blanks – Acceptable as noted:

The surrogate analyte 1,2-dichloroethane-d4 was above continuing calibration range in the blank sample. The affected results are flagged as noted below.

3. Surrogates – Acceptable except as noted:

Surrogate 1,2-dichloroethane-d4 was out of range for continuing calibration and/or percent recovery in multiple samples, as well as the analysis blank, LCS, LCSD, MS, and MSD. This indicates a slight positive bias for the VOCs in this analysis. The results should be flagged with a "J" for reporting. For samples RGWDUP1-210810, RGW152S-210810, RGW172S-210810, RGW234S-210810, RGW236S-210810, and RGW235I-210810, the sample was rerun with all surrogates in range and the second set of results can be used without a qualifier.

4. LCS/LCSD – Acceptable as noted:

The surrogate analyte 1,2-dichloroethane-d4 was above continuing calibration range in the LCS and LCSD, indicating a slight positive bias in the analysis. The affected results are already flagged for use due to the surrogate in the primary sample analysis.

5. MS/MSD – Acceptable as noted:

Continuing calibration range and percent recoveries for the surrogate analyte 1,2-dichloroethane-d4 were above range in the MS and MSD, indicating a slight positive bias in the analysis. Percent recovery was also below range for trichloroethylene and tetrachloroethylene in the MS/MSD, which was likely due to matrix effect. The affected results are already flagged for use due to the surrogate results in the primary sample analysis.

6. Field Duplicates – Acceptable 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 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 (%)
RGW152S-210810/ RGWDUP1-210810	vinyl chloride	506	525	20	4
	cis-1,2-dichloroethene	1,330	1370	20	3
	trichloroethene	129	119	20	8
	tetrachloroethene	87.2	80.2	20	NC

Abbreviations

NC = not calculated

ng/L = nanograms per liter

RPD = relative percent difference

7. Reporting Limits and Laboratory Flags – Acceptable

Inorganic analyses

Samples were analyzed for total metals and 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 project-specific control limit for field duplicate RPDs is 30 percent for concentrations greater than five times the reporting limit. The field duplicate RPD for TOC and total arsenic were within control limits. RPDs for total copper, and total lead were above control limits; primary and duplicate results for total copper and total lead will be flagged with a "J."

Sample ID/ Field Duplicate ID	Analyte	Primary Result	Duplicate Result	Reporting Limit	RPD (%)
RGW152S-210810/ RGWDUP1-210810	TOC	5.88 mg/L	5.30 mg/L	0.50 mg/L	10
	total arsenic	16.3 µg/L	18.3 μg/L	0.400 μg/L	12
	total copper	9.08 µg/L	12.4 μg/L	1.00 μg/L	31
	total lead	5.38 µg/L	7.82 µg/L	0.200 μg/L	37

Abbreviations:

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

RPD = relative percent difference TOC = total organic carbon

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

The samples RGW232S-210810, RGW153S-210810, RGW173S-210810, RGW152S-210810, RGWDUP1-210810, RGW172S-210810, and RGW234S-210810 are flagged "D," indicating the result was from a diluted analysis for lead, arsenic, and copper. The samples were diluted at a factor of 2 due to higher levels of carbon present in the sample, and the results are not flagged for use.

Overall assessment of data

The table below summarizes the data assessment. The completeness of work order number 21H0121 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	
RGW232S-210810	Vinyl chloride cis-1,2-Dichloroethene Trichloroethene Tetrachloroethene	Surrogate Calibration	653 J ng/L 464 J ng/L 20.0 UJ ng/L 20.0 UJ ng/L	
RGW153S-210810	Vinyl chloride cis-1,2-Dichloroethene Trichloroethene Tetrachloroethene	Surrogate Calibration	193 J ng/L 58.2 J ng/L 20.0 UJ ng/L 20.0 UJ ng/L	
RGW226S-210810	Vinyl chloride cis-1,2-Dichloroethene Trichloroethene Tetrachloroethene	Surrogate Calibration	51.6 J ng/L 33.5 J ng/L 20.0 UJ ng/L 20.2 J ng/L	
RGW173S-210810	Vinyl chloride cis-1,2-Dichloroethene Trichloroethene Tetrachloroethene	Surrogate Calibration	176 J ng/L 42.4 J ng/L 20.0 UJ ng/L 20.0 UJ ng/L	
RGW152S-210810	total copper total lead	Duplicate RPD	9.08 J μg/L 5.38 J μg/L	
RGWDUP1-210810 total copper total lead		Duplicate RPD	12.4 J μg/L 7.82 J μg/L	
RGW172S-210810	none	NA	NA	
RGW234S-210810	none	NA	NA	
RGW236S-210810	none	NA	NA	
RGW235I-210810	none	NA	NA	
TripBlank-210810 Vinyl chloride cis-1,2-Dichloroethene Trichloroethene Tetrachloroethene		Surrogate Calibration	20.0 UJ ng/L 20.0 UJ ng/L 20.0 UJ ng/L 20. 0 UJ ng/L	

<u>Notes</u>

- 1. Data qualifiers are as follows:
 - J = The value is an estimate.
 - UJ = The analyte was not detected at the estimated reporting limit indicated.

Abbreviations

 μ g/L = micrograms per liter

ng/L = nanograms per liter

NA = not applicable

RPD = relative percent difference

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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:

c:

PS20203450.2021

Project File

From: Chelsea Foster

(206) 342-1760

Fax:

(206) 342-1761

Date:

Tel:

September 6, 2021

Subject: Sur

Summary Data Quality Review

August 2021 Boeing Renton Groundwater Sampling

Building 4-78/79 SWMU/AOC Group ARI Work Order Number: 21H0137

This memo presents the summary data quality review of seven primary groundwater samples, one field duplicate groundwater sample, and one trip blank sample collected on August 11, 2021. 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-G; 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
RGW143S-210811	21H0137-01	all
RGW240D-210811	21H0137-02	all
RGW237S-210811	21H0137-03	all
RGW034S-210811	21H0137-04	all
RGW244S-210811	21H0137-05	all
RGW033S-210811	21H0137-06	all
RGW031S-210811	21H0137-07	all
RGWDUP2-210811	21H0137-08	all
Tripblanks-210811	21H0137-09	VOCs and 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.

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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 for work order on August 11, 2021. The temperature of the cooler was recorded upon receipt and was below the maximum acceptable temperature of 6 degrees Celsius.

Organic analyses

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

1. Preservation and Holding Times – Acceptable as noted:

One of the vials from the sample RGW240D-210811 had a bubble upon receipt, but since there were additional vials for this sample, the analysis could be performed on the other vial and the results are not flagged for use.

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

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 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	0.20 U	0.20	0.20	NC
RGW031S-210811/ RGWDUP2-210811	cis-1,2-dichloroethene	0.20 U	0.20 U	0.20	NC
	benzene	1.08	0.84	0.20	25
	trichloroethene	0.20 U	0.20 U	0.20	NC
	TPH-G	1,540	1,620	100	5

Abbreviations

μg/L = micrograms per liter

NC = not calculated

RPD = relative percent difference

U = analyte was not detected above the reporting limit indicated

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

Extra volume was not submitted for project specific MS/MSD analyses. Sample precision is evaluated based on LCS 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

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 relative percent difference (RPD) for the field duplicate is within the project-specific control limit of 30 percent.

Sample ID/	Analyte	Primary Result	Duplicate Result	Reporting Limit	RPD
Field Duplicate ID		(mg/L)	(mg /L)	(mg /L)	(%)
RGW031S-210811/ RGWDUP2-210811	ТОС	15.15	15.21	0.50	0

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 numbers 21H0137 is 100 percent. Evaluation of the usefulness of these data is based on EPA guidance documents identified 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		
RGW143S-210811	none		
RGW240D-210811	none		
RGW237S-210811	none		
RGW034S-210811	none		
RGW244S-210811	none		
RGW033S-210811	none		
RGW031S-210811	none		
RGWDUP2-210811	none		
Tripblanks-210811	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

Tel:

Date:

To: Kathleen Goodman, Project Manager

Project:

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PS20203450.2021

Project File

From: Chelsea Foster

(206) 342-1760

Fax: (206) 342-1761

September 2, 2021

Subject: Summary Data Quality Review

August 2021 Boeing Renton Groundwater Sampling

Former Fuel Farm AOC Group ARI Work Order Number: 21H0113

This memo presents the summary data quality review of three primary groundwater samples and one field duplicate collected on August 10, 2021. 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-210810	21H0113-01	all
RGW224S-210810	21H0113-02	all
RGW221S-210810	21H0113-03	all
RGWDUP3-210810	21H0113-04	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 August 10, 2021. The temperatures of the coolers were recorded upon receipt and 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
- 6. Field Duplicates Acceptable

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.

Sample ID/ Field Duplicate ID	Analyte	Primary Result (mg/L)	Duplicate Result (mg/L)	Reporting Limit (mg/L)	RPD (%)
	TPH-D (C12–C24)	1.08	1.01	0.100	7
RGW224S-210810/ RGWDUP3-210810	TPH-O (C24–C38)	ND	ND	0.200	NC
	TPH-Jet A (C10–C18)	1.47	1.35	0.100	9

Abbreviations

mg/L = milligrams per liter
NC = not calculated
ND = not detected
RPD = relative percent difference

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

7. Reporting Limits and Laboratory Flags – Acceptable

Overall assessment of data

The table below summarizes the data review. The completeness of ARI work order number 21H0113 is 100 percent. Evaluation of the usefulness of these data is based on EPA guidance documents listed in the

Memo September 2, 2021 Page 3 of 3

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
RGW211S-210810	none
RGW224S-210810	none
RGW221S-210810	none
RGWDUP3-210810	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 Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-014-002, August.

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Date: September 2, 2021

Subject: Summary Data Quality Review

August 2021 Boeing Renton Groundwater Sampling

AOC-003

ARI Work Order Number: 21H0136 and 21H0153

This memo presents the summary data quality review of four primary groundwater samples and two trip blank samples collected on August 11 and 12, 2021. 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.

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

Sample ID	Laboratory Sample ID	Requested Analyses
Tripblank-210811	21H0136-01	vinyl chloride
RGW248I-210811	21H0136-02	all
RGW247S-210811	21H0136-03	all
Tripblank-210812	21H0153-01	vinyl chloride
RGW188S-210812	21H0153-02	all
RGW249S-210812	21H0153-03	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 the EPA guidance documents (EPA, 2014).

ARI received the samples for work order 21H0136 on August 11, 2021, and the samples for work order 21H1053 on August 12, 2021. The temperatures of the coolers were recorded upon receipt and 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 as noted:

Two of the vials from the sample RGW248I-210811 and one vial from the sample RGW247S-210811 (both on work order 21H0136) had a bubble upon receipt, but since there were additional vials for these samples, the analysis could be performed on the other vial and the results are not flagged 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

Overall assessment of data

The table below summarizes the data assessment. The completeness of work order numbers 21H0136 and 21H0153 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
Tripblanks-210811	none
RGW248I-210811	none
RGW247S-210811	none
Tripblank-210812	none
RGW188S-210812	none
RGW249S-210812	none

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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

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Project: PS20203450.2021

From: Chelsea Foster

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Date: September 14, 2021

Subject: Summary Data Quality Review

August 2021 Boeing Renton Groundwater Sampling

AOC-004

ARI Work Order Number: 21H0180

This memo presents the summary data quality review of one primary groundwater sample collected on August 12, 2021. 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-210812	21H0180-01	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 August 12, 2021. The temperature of the cooler was recorded upon receipt and 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 21H0180 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-210216	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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(206) 342-1761 August 25, 2021

Summary Data Quality Review

August 2021 Boeing Renton Groundwater Sampling

AOC-060

ARI Work Order Numbers: 21H0135

This memo presents the summary data quality review of six primary groundwater samples, one field duplicate, and one trip blank sample collected on August 11, 2021. 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
Tripblank-210811	21H0135-01	VOCs
RGW253I-210811	21H0135-02	all
RGW150S-210811	21H0135-03	all
RGW147S-210811	21H0135-04	all
RGWDUP4-210811	21H0135-05	all
RGW014S-210811	21H0135-06	all
RGW012S-210811	21H0135-07	all
RGW009S-210811	21H0135-08	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.

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 August 11, 2021. The temperatures of the cooler were recorded upon receipt and was below the maximum acceptable temperature of 6 degrees Celsius (°C).

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

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.

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	367	358	20.0	2
RGW014S-210811/ RGWDUP4-210811	cis-1,2-dichloroethene	147	156	20.0	6
	trichloroethene	22.7	23.4	20.0	NC

Abbreviations

ng/L = nanograms per liter

NC = not calculated

RPD = relative percent difference

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

The spectral pattern for samples RGW253I-210811, RGW150S-210811, RGW147S-210811, RGWDUP4-210811, and RGW014S-210811 had low match to the spectral pattern for vinyl chloride, but were confirmed by an analyst for results. These results are not flagged 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

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. Laboratory Duplicates Acceptable
- 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 field duplicate RPD was within the control limits.

Sample ID/	Analyte	Primary Result	Duplicate Result	Reporting Limit	RPD
Field Duplicate ID		(mg/L)	(mg/L)	(mg/L)	(%)
RGW014S-210811/ RGWDUP4-210811	тос	4.09	4.02	0.50	2

Abbreviations

mg/L = milligrams per liter RPD= relative percent difference TOC = total organic carbon

7. Reporting Limits – Acceptable as noted:

Overall assessment of data

A summary of the data assessment is presented in the table below. The completeness of work order number 21H0135 is 100 percent. Evaluation of the usefulness of these data is based on the EPA guidance

document 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
Tripblank-210811	none
RGW253I-210811	none
RGW150S-210811	none
RGW147S-210811	none
RGWDUP4-210811	none
RGW014S-210811	none
RGW012S-210811	none
RGW009S-210811	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: Chelsea Foster

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Date: September 14, 2021

Subject: Summary Data Quality Review

August 2021 Boeing Renton Groundwater Sampling

AOC-090

ARI Work Order Number: 21H0183 and 21H0211

This memo summarizes the data quality review of five primary groundwater samples and two trip blank samples collected on August 12 and 17, 2021. 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 O) by Ecology Method NWTPH-Dx (with silica gel cleanup); and
- Total organic carbon (TOC) by Standard Method (SM) 5310B.

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

Sample ID	Laboratory Sample ID	Requested Analyses
TripBlanks-210812	21H0183-01	VOCs and TPH
RGW208S-210812	21H0183-02	Vinyl chloride w/ SIM
RGW178S-210812	21H0183-03	Vinyl chloride w/ SIM
RGW189S-210812	21H0183-04	All
RGW207S-210812	21H0183-05	Vinyl chloride w/SIM
TripBlank-210817	21H0211-01	Vinyl chloride w/ SIM
RGW176S-210817	21H0211-02	Vinyl chloride w/ SIM

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 August 12 and 17, 2021. The temperatures of the coolers were recorded upon receipt and were below the maximum acceptable temperature of 6 degrees Celsius.

Organic analyses

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

- 1. Preservation and Holding Times Acceptable as noted:
 - One of the trip blank vials sampled on August 12, 2021, had a bubble in it upon check-in at the laboratory; however, the analyses could still be executed fully using other vials for the same sample.
- 2. Blanks Acceptable
- 3. Surrogates Acceptable
- 4. LCS/LCSD Acceptable except as noted:
- 5. MS/MSD Acceptable except as noted:

The percent recovery in the MS/MSD sample was out of control limits for 1,1,2,2-tetrachloroethane in the VOC analysis, and TOC in the wet chemistry analysis. The LCS/LCSD samples were within control limits for the same analytes, therefore the variation is likely due to matrix effect. The data is not 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

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. 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

Overall assessment of data

The completeness of ARI work order numbers 21H0183 and 21H0211 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
TripBlanks-210812	none
RGW208S-210812	none
RGW178S-210812	none
RGW189S-210812	none
RGW207S-210812	none
TripBlank-210817	none
RGW176S-210817	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.

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:

Project: PS20203450.2021

From: Chelsea Foster

c: Project File

Tel: (206) 342-1760 Fax: (206) 342-1761 Date: August 24, 2021

Subject: Summary Data Quality Review

August 2021 Boeing Renton Groundwater Sampling

Apron A

ARI Work Order Number: 21H0115

This memo presents the summary data quality review of one primary groundwater sample and one trip blank sample collected on August 10, 2021. 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-210810	21H0115-01	All
Trip Blank-210810	21H0115-02	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 August 10, 2021. The temperature of the coolers were recorded upon receipt and were 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 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 as noted:

Surrogate 1,2-dichloroethane-d4 in the VOC analysis was above calibration range, indicating a slight positive bias. The samples were rerun, and all surrogates were within calibration range. The second set of results should be used for reporting purposes.

- 4. LCS/LCSD Acceptable
- 5. 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.

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

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 21H0115 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
RGW264S-210810	none
Trip Blank-210810	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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Appendix D

Historical Groundwater Data Tables

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

Boeing Renton Facility, Renton, Washington

	Current					l ID ³							
	Cleanup					2295							
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	pounds (μg/	'L)											
Vinyl Chloride	0.11	0.020 U	0.020 U 0.020 U 0.021 0.0273 0.020 U 0.0211 0.020 U 0.020 U										

					Wel	l ID³							
	Current				СРОС	Area							
	Cleanup				GW:	2301							
Analyte	Level ⁴	3/5/2018	8/13/2018	3/4/2019	8/12/2019	3/9/2020	8/10/2020	2/15/2021	8/10/2021				
Volatile Organic Com	ipounds (μg/	L)											
Vinyl Chloride	0.11	0.0873	0.0873 0.14 0.0566 0.336 0.087 0.162 0.076 0.359 J										

	Current Cleanup		Well ID ³ CPOC Area GW231S											
Analyte	Level ⁴	11/7/2016	3/1/2017	8/14/2017		8/13/2018	3/4/2019	8/12/2019	3/9/2020					
Volatile Organic Com	pounds (μg/	'L)												
Vinyl Chloride	0.11	0.020 U	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

									V	Well ID ³							
	Current								So	urce Area							
	Cleanup				G\	W152S							GV	V153S			
Analyte	Level ⁴	5/6/2019	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	8/10/2021	5/6/2019	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	8/10/2021
Volatile Organic Compour	nds (µg/L)																
cis-1,2-Dichloroethene	0.03	0.655	0.627	0.530	0.892	0.719	1.66	0.144	1.330	0.108	0.278	0.204	0.0736	0.0789	0.0551	0.077	0.0582 J
Tetrachloroethene	0.02	0.0594	0.176	0.384	1.12	2.38	0.319	0.081	0.0872	0.020 U	0.0544	0.164	0.024	0.020 U	0.020 U	0.020 U	0.020 UJ
Trichloroethene	0.02	0.157	0.203	0.145	0.278	0.412	0.579	0.020 U	0.129	0.0212	0.0326	0.131	0.02 U	0.020 U	0.020 U	0.020 U	0.020 UJ
Vinyl Chloride	0.11	0.173	0.0705	0.0366	0.15	0.0463	0.284	0.0378	0.506	0.242	0.153	0.0859	0.249	0.266	0.135	0.220	0.193 J
Total Metals (µg/L)																	
Arsenic	1.0	4.49	23.4	7.48	3.84	1.95	6.72	7.67	16.3	5.97	4.72	11.9	5.48	3.85	4.05	32.8	32.8
Copper	3.5	2.35	21.8	16.6	8.03	2.76	7.45 J	17.2 J	9.08 J	1.25	1.58	10.2	3.09	1.73	1.68	33.9	33.9
Lead	1.0	1.26	14.8	12.1	6.13	1.09	3.89	12.5 J	5.38 J	0.198	0.351	2.76	0.712	0.372	0.326	5.80	5.80

	_								V	Vell ID ³							
	Current								Downgrad	lient Plume <i>F</i>	Area						
	Cleanup				G\	N172S							GV	V173S			
Analyte	Level ⁴	5/6/2019	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	8/10/2021	5/6/2019	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	8/10/2021
Volatile Organic Compoun	nds (µg/L)																
cis-1,2-Dichloroethene	0.03	0.0581	0.027	0.0561	0.305	0.214	0.0561	0.108	0.0746	0.037	0.022	0.0378	0.0504	0.0488	0.0313	0.0505	0.0424 J
Tetrachloroethene	0.02	0.020 U	0.0451	0.0287	0.976	0.0625	0.0603	0.0624	0.020 U	0.0416	0.0561	0.0246	0.0224	0.020 U	0.020 U	0.020 U	0.020 UJ
Trichloroethene	0.02	0.020 U	0.020 U	0.020 U	0.384	0.028	0.020 U	0.020 U	0.020 U	0.0742	0.0256	0.0379	0.0305	0.0215	0.0239	0.020 U	0.020 UJ
Vinyl Chloride	0.11	0.0808	0.0376	0.0905	0.209	0.369	0.0628	0.219	0.155	0.0486	0.0613	0.072	0.144	0.126	0.0455	0.183	0.176 J
Total Metals (µg/L)																	
Arsenic	1.0	7.71	10.6	20.5	32.8	7.03	10.8	10.8	7.18	7.38	12.2	15.6	11.8	6.72	7.00	9.94	11.4
Copper	3.5	2.13	3.86	9.25	27.6	2.2	6.12	3.89	2.86	1.11	1.39	4.68	1.51	0.875	3.19	3.11	5.96
Lead	1.0	0.991	1.02	7.44	15.1	1.07	2.58	1.98	1.33	0.251	0.290	1.36	0.442	0.215	0.470	0.850	1.65

									V	Vell ID ³							
	Current Downgradient Plume Area								CPOC Area								
	Cleanup				Gl	N226S				GW232S							
Analyte	Level⁴	5/6/2019	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	8/10/2021	5/6/2019	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	8/10/2021
Volatile Organic Compoun	ds (μg/L)																
cis-1,2-Dichloroethene	0.03	0.0223	0.0259	0.0235	0.0396	0.0305	0.0218	0.020 U	0.0335 J	0.319	0.378	0.659	0.221	0.352	0.482	0.219	0.464 J
Tetrachloroethene	0.02	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.0279	0.020 U	0.0202 J	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 UJ
Trichloroethene	0.02	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 UJ	0.0331	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 UJ
Vinyl Chloride	0.11	0.0459	0.029	0.0615	0.038	0.0594	0.0415	0.0519	0.0516 J	0.348	0.412	0.860	0.264	0.337	0.425	0.263	0.653 J
Total Metals (µg/L)																	
Arsenic	1.0	2.97	2.85	12.0	4.88	3.33	4.93	8.12	5.57	3.96	6.29	8.09	2.73	4.71	3.83	4.78	6.19
Copper	3.5	0.500 U	0.626	15.6	5.00	0.704	1.48	3.92	1.48	1.15	0.878	3.85	2.22	0.539	0.627	2.09	1.79
Lead	1.0	0.100 U	0.100 U	2.43	0.500	0.190	0.136	0.513	0.124	0.167	0.102	0.378	0.354	0.100 U	0.100 U	0.318	0.262

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

Boeing Renton Facility, Renton, Washington

	_								V	Vell ID ³							
	Current								СР	OC Area							
	Cleanup				G\	W234S							GV	V235I			
Analyte	Level⁴	5/6/2019	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	8/10/2021	5/6/2019	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	8/10/2021
Volatile Organic Compoun	ids (µg/L)																
cis-1,2-Dichloroethene	0.03	0.0630	0.0738	0.0850	0.0984	0.092	0.0914	0.020 U	0.0892	0.109	0.0638	0.109	0.127	0.156	0.104	0.128	0.179
Tetrachloroethene	0.02	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.0292	0.020 U
Trichloroethene	0.02	0.020 U	0.020 U	0.020 U	0.0297	0.020 U	0.020 U	0.020 U	0.020 U	0.0342	0.020 U	0.0287	0.0336	0.031	0.0227	0.020 U	0.0285
Vinyl Chloride	0.11	0.0235	0.0252	0.0309	0.0302	0.032	0.0279	0.020 U	0.0497	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.24
Total Metals (µg/L)																	
Arsenic	1.0	2.22	1.31	10.1	27.4	5.31	3.26	6.29	1.18	0.403	0.292	0.237	0.251	0.289	0.288	0.200 U	0.200 U
Copper	3.5	1.93	0.869	33.2	32.9	2.43	3.21	11.4	2.58	1.58	0.714	0.573	0.935	1.08	1.30	0.727	0.689
Lead	1.0	0.843	0.280	15.5	11.8	0.671	1.25	4.13	1.01	0.405	0.182	0.127	0.235	0.223	0.304	0.174	0.179

					W	ell ID ³									
	Current				CPC	OC Area									
	Cleanup				GV	W236S									
Analyte	Level⁴	5/6/2019	/2019 8/12/2019 11/11/2019 3/9/2020 5/11/2020 8/10/2020 2/15/2021 8/10/20												
Volatile Organic Compour	nds (µg/L)														
cis-1,2-Dichloroethene	0.03	0.0281	0.0468	0.108	0.0241	0.036	0.0881	0.020 U	0.0791						
Tetrachloroethene	0.02	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U						
Trichloroethene	0.02	0.0206	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U						
Vinyl Chloride	0.11	0.020 U	0.020 U	0.0437	0.020 U	0.020 U	0.020 U	0.020 U	0.0223						
Total Metals (µg/L)															
Arsenic	1.0	2.10	3.70	36.5	6.29	2.10	10.1	2.89	5.49						
Copper	3.5	2.17	0.893	66.9	21.2	4.24	10.8	9.70	2.47						
Lead	1.0	1.90	1.53	117	18.7	2.61	10.8	6.31	1.79						

<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.

Abbreviations

 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	l ID³							
	Current								Sourc	e Area							
	Cleanup				GW	/031S							GW	033S			
Analyte	Level ⁴	5/7/2019	5/7/2019 8/13/2019 11/12/2019 3/11/2020 5/11/2020 8/11/2020 2/15/2021 8/11/2021 5/7/2019 8/13/2019 11/12/2019 3/11/2020 5/11/2020 8/11/2020 2/16/2021 8/11/2021														8/11/2021
Volatile Organic Compoun	ds (µg/L)																
Benzene	0.80	7.13	3.47	4.77	37.1	17.6	1.72 J	18.8 J	1.08	12.5	10.4	11.5	10.2	9.75	12.5	11.0	14.5
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	0.41	0.78	2.78	21.4	39.5	188	1.64	0.55
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	0.25	0.20 U	0.20 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	0.53	1.16	13.0	52.2	87.3	310	5.31	2.31
Total Petroleum Hydrocarl	oons (µg/L)																
TPH-G (C7-C12)	800	1020	1390	1540	2,980	1,880	1,160	2,340	1,540	297	277	347	296	301	255	323	360

									Wel	l ID³							
	Current								Sourc	e Area							
	Cleanup				GW	/034S							GW2	244S			
Analyte	Level ⁴	5/7/2019	8/13/2019	11/12/2019	3/11/2020	5/11/2020	8/11/2020	2/15/2021	8/11/2021	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 Compound	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	0.20 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	0.20 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	0.20 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	0.20 U	0.39	0.39	0.20 U	0.21	0.41	0.25	1.20	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

	Current									l ID³							
	Cleanup				GW	/143S			СРОС	Area			GW)27C			
Analyte	Level⁴	5/7/2019															
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	0.20 U	2.20	0.43	0.66	3.48	1.03	0.24	6.79 J	0.20 U
cis-1,2-Dichloroethene	0.70	0.20 U	2.20	0.20 U	0.21	0.20 U	1.17	0.26	0.65	0.20 U	0.25	0.22	1.00 U	0.20 U	0.20 U	0.20 UJ	0.20 U
Trichloroethene	0.23	0.20 U	1.05	0.20 U	0.20 U	0.20 U	0.23	0.20 U	1.00 U	0.20 U	0.20 U	0.20 UJ	0.20 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	0.20 U	0.20 U	0.38	0.34	1.00 U	0.20 U	0.20 U	0.31 J	0.20
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	100 U	329	100 U	961	729	100 U	100 UJ	360

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

Boeing Renton Facility, Renton, Washington

									9
					We	ell ID³			
	Current				СРО	C Area			
	Cleanup				GW	/240D			
Analyte	Level ⁴	5/7/2019	8/13/2019	11/12/2019	3/10/2020	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	0.20 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	0.20 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	0.20 U
Vinyl Chloride	0.20	0.27	0.26	0.24	0.20 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

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				GW2	?11S							GW2	221S			
Analyte	Level ³	5/7/2018	11/12/2018	5/7/2019	11/11/2019	5/11/2020	8/10/2020	2/15/2021	8/10/2021	5/7/2018	11/12/2018	5/7/2019	11/11/2019	5/11/2020	8/10/2020	2/15/2021	8/10/2021
Total Petroleum Hydrocar	bons (mg/L)																
TPH-D (C12-C24)	0.5	0.272	0.341	0.124	0.120	0.282	0.192	0.284	0.140	0.746	1.50	0.630	1.65	1.58	7.67	1.22	1.02
Jet A	0.5	0.214	0.191	0.117	0.117	0.267	0.155	0.262	0.100 U	0.635	0.863	0.397	1.09	1.09	5.70	0.89	0.718

					Wel	ID ²									
	a .a				СРОС	Area									
	Current Cleanup	GW224S													
Analyte	Level ³	5/7/2018 11/12/2018 5/7/2019 11/11/2019 5/11/2020 8/10/2020 2/15/2021 8/10/2021													
Total Petroleum Hydrocar	bons (mg/L)														
TPH-D (C12-C24)	0.5	0.560	1.56	0.256	1.46	0.675	1.08	0.584	1.08						
Jet A	0.5	0.933	1.64	0.388	1.80	0.918 J	1.42	1.04	1.47						

<u>Notes</u>

- 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				GW	249S							GW ²	188 S			
Analyte	Cleanup Level ⁴	8/15/2018	11/13/2018	3/5/2019	8/14/2019	3/12/2020	8/10/2020	2/16/2021	8/12/2021	8/15/2018	11/13/2018	3/5/2019	8/14/2019	3/12/2020	8/10/2020	2/16/2021	8/12/2021
Volatile Organic Compou	nds (µg/L)																
cis-1,2-Dichloroethene	0.78	0.0524	0.0829	0.079	0.0526	0.0604	NA	NA	NA	0.0386	0.0636	0.0493	0.0361	0.0362	NA	NA	NA
Tetrachloroethene	0.02	0.020 U	0.020 U	0.0105	0.020 U	0.020 U	NA	NA	NA	0.020 U	0.020 U	0.0107	0.020 U	0.0244	NA	NA	NA
Trichloroethene	0.16	0.020 U	0.020 U	0.0157	0.020 U	0.020 U	NA	NA	NA	0.020 U	0.020 U	0.0125	0.020 U	0.020 U	NA	NA	NA
Vinyl Chloride	0.24	0.413	0.629	0.424	0.367	0.334	0.261	0.366	0.517	0.404	0.813	0.537	0.545	0.235	0.288	0.107	0.698

									Wel	I ID ³							
									CPOC	C Area							
	Current				GW2	247S							GW:	2481			
Analyte	Cleanup Level ⁴	5/8/2019	8/14/2019	11/12/2019	3/12/2020	5/13/2020	8/10/2020	2/16/2021	8/11/2021	5/8/2019	8/14/2019	11/12/2019	3/12/2020	5/13/2020	8/10/2020	2/16/2021	8/11/2021
Volatile Organic Compound	nds (µg/L)																
cis-1,2-Dichloroethene	0.78	0.0584	0.065	0.0635	0.039	0.584	NA	NA	NA	0.020 U	0.020 U	0.020 U	0.02 U	0.020 U	NA	NA	NA
Tetrachloroethene	0.02	0.020 U	0.020 U	0.020 U	0.02 U	0.020 U	NA	NA	NA	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NA	NA	NA
Trichloroethene	0.16	0.020 U	0.020 U	0.148	0.02 U	0.020 U	NA	NA	NA	0.020 U	0.020 U	0.0514	0.020 U	0.020 U	NA	NA	NA
Vinyl Chloride	0.24	0.497	0.613	0.504	0.305	0.409	0.392	0.405	0.678	0.551	0.541	0.62	0.499	0.546	0.383	0.426	0.711

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

						We	ll ID²										
	Current					Sourc	e Area										
	Cleanup		GW250S														
Analyte	Level ³	3/1/2017	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						
Metals (mg/L)																	
Lead	0.001	0.0030	0.00026	0.000941	0.00107	0.00154	0.000714	0.00119	0.000611	0.000564	0.000663						

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>

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	II ID ³							
	Current				Source	e Area							Downgradien	t Plume Area	a		
	Cleanup				GW	009S							GW)12S			
Analyte	Levels ⁴	3/6/2018	8/14/2018	3/5/2019	8/14/2019	3/10/2020	8/11/2020	2/17/2021	8/11/2021	3/6/2018	8/14/2018	3/5/2019	8/14/2019	3/10/2020	8/11/2020	2/17/2021	8/11/2021
Volatile Organic Compoun	ds (µg/L)																
cis -1,2-Dichloroethene	0.08	0.0948	0.126	0.107	0.127	0.093	0.124	0.139	0.368	0.609	1.29	1.23	0.798	0.482	0.508	1.260	2.210
Trichloroethene	0.02	0.0252	0.0238	0.0239	0.020 U	0.0242	0.0324	0.0294	0.0316	0.0568	0.656	0.0546	0.0471	0.0505	0.0518	0.0454	0.0908
Vinyl Chloride	0.26	0.241 J	0.318	0.285	0.300	0.183	0.219	0.300	0.160	0.586	0.605	1.35	0.893	0.603	0.387	0.180	0.795

	Current								Wel Downgradien		а						
	Cleanup		GW014S GW147S 18 8/14/2018 3/5/2019 8/14/2019 3/10/2020 8/11/2020 2/17/2021 8/11/2021 3/6/2018 8/14/2018 3/5/2019 8/14/2019 3/10/2020 8/11/2020 2/17/2021 8/11														
Analyte	Levels ⁴	3/6/2018	8/14/2018	3/5/2019	8/14/2019	3/10/2020	8/11/2020	2/17/2021	8/14/2018	3/5/2019	8/14/2019	3/10/2020	8/11/2020	2/17/2021	8/11/2021		
Volatile Organic Compoun	ds (µg/L)																
cis -1,2-Dichloroethene	0.08	0.134	0.122	0.119	0.143	0.151	0.0932	0.130	0.147	0.211	4.63	0.955	4.11	0.287	0.931	0.180	0.180
Trichloroethene	0.02	0.0347	0.0273	0.0254	0.020 U	0.0419	0.020 U	0.035	0.0227	1.91	4.23	0.475	1.46	1.20	3.37	0.498	0.498
Vinyl Chloride	0.26	0.266	0.232 J	0.214	0.365	0.195	0.190	0.207	0.367	0.020 U	1.07 J	0.0514	0.215	0.020 U	0.0643	0.020 U	0.020 U

	Current									l ID³ : Area							
	Cleanup				GW1	150S							GW2	253I			
Analyte	Levels ⁴	3/6/2018	8/14/2018	3/5/2019	8/14/2019	3/10/2020	8/11/2020	2/17/2021	8/11/2021	3/6/2018	8/14/2018	3/5/2019	8/14/2019	3/10/2020	8/11/2020	2/17/2021	8/11/2021
Volatile Organic Compoun	ds (µg/L)																
cis -1,2-Dichloroethene	0.08	0.0388	0.0506	0.0737	0.0824	0.0525	0.0935	0.0393	0.0991	0.0991	0.0796	0.127	0.0917	0.0915	0.0879	0.140	0.106
Trichloroethene	0.02	0.020 U	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
Vinyl Chloride	0.26	0.0596	0.0203	0.103	0.020 U	0.0541	0.0619	0.0455	0.122	0.132	0.113	0.143	0.131	0.184	0.100	0.243	0.146

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	l ID ³							
	Current				Sourc	e Area							Downgradien	nt Plume Are	<u></u>		
	Cleanup				GW1	89S ⁵							GW ²	176S			
Analyte	Levels ⁴	3/5/2018	8/13/2018	3/5/2019	8/12/2019	3/11/2020	8/12/2020	2/17/2021	8/12/2021	3/5/2018	8/13/2018	3/5/2019	8/12/2019	3/11/2020	8/12/2020	2/17/2021	8/17/2021
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	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM
1,1,2-Trichloroethane	0.2	0.20 U	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
1,1-Dichloroethene	0.057	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.0529	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM
Acetone	300	5.00 U	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
Benzene	0.8	0.55	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
Carbon Tetrachloride	0.23	0.20 U	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
Chloroform	2	0.20 U	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
cis-1,2-Dichloroethene	2.4	1.74	22.3	0.92	6.87	0.20 U	1.93	0.47	3.15	0.26	0.27	0.25	0.27	0.25	NM	NM	NM
Methylene Chloride	2	1.00 U	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
Tetrachloroethene	0.05	0.020 U	0.20 U	0.028	0.020 U	0.0263	0.020 U	0.0283	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM
Toluene	75	6.34	21.7	4.96	3.11	0.20 U	1.05	5.21	2.42	0.42	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM
trans-1,2-Dichloroethene	53.9	0.48	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
Trichloroethene	0.08	0.224	2.38	0.156	0.414	0.0745	0.324	0.143	0.386	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM
Vinyl Chloride	0.13	0.508 J	2.09 J	0.50	1.20	0.020 U	0.369	0.0405	0.575	0.208	0.230	0.294	0.301	0.207	0.232	0.138	0.431
Total Petroleum Hydrocarbon	s (µg/L)																
TPH-G (C7-C12)	800	1,860	9,440	1,070	943	189	699	507	504	100 U	100 U	100 U	100 U	100 U	NM	NM	NM
TPH-D (C12-C24)	500	200	4,120	362	432	100 U	150	2160	390	100 U	100 U	100 UJ	100 U	100 U	NM	NM	NM
TPH-O (C24-C40)	500	298	2,000 U	522	853	200 U	379	3990	689	200 U	200 U	200 UJ	200 U	200 U	NM	NM	NM

	Current												Wel	I ID ³ ie CPOC Area											
	Cleanup				GW	178S				Γ				207S				Γ			GW	208S			
Analyte	Levels ⁴	3/5/2018	8/13/2018	3/5/2019	8/12/2019	3/11/2020	8/12/2020	2/17/2021	8/12/2021	3/5/2018	8/13/2018	3/5/2019	8/12/2019	3/11/2020	8/12/2020	2/17/2021	8/12/2021	3/5/2018	8/13/2018	3/5/2019	8/12/2019	3/11/2020	8/12/2020	2/17/2021	8/12/2021
Volatile Organic Compounds (ug/L)																								
1,1,2,2-Tetrachloroethane	0.17	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM
1,1,2-Trichloroethane	0.2	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM
1,1-Dichloroethene	0.057	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM	0.020 U	0.023	0.020 U	0.020 U	0.020 U	NM	NM	NM	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM
Acetone	300	5.00 U	5.00 U	5.54	5.0 U	5.0 U	NM	NM	NM	5.00 U	5.00 U	5.00 U	5.0 U	5.0 U	NM	NM	NM	5.00 U	5.00 U	5.00 U	5.0 U	5.0 U	NM	NM	NM
Benzene	0.8	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM
Carbon Tetrachloride	0.23	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM
Chloroform	2	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM
cis-1,2-Dichloroethene	2.4	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	0.20	0.20 U	0.21	0.20 U	0.20 U	NM	NM	NM
Methylene Chloride	2	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NM	NM	NM	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NM	NM	NM	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	NM	NM	NM
Tetrachloroethene	0.05	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	NM
Toluene	75	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM
trans-1,2-Dichloroethene	53.9	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	NM
Trichloroethene	0.08	0.0214	0.0213	0.0213	0.020 U	0.021	NM	NM	NM	0.020 U	0.0388	0.020 U	0.0305	0.020 U	NM	NM	NM	0.020 U	0.0234	0.020 U	0.0293	0.020 U	NM	NM	NM
Vinyl Chloride	0.13	0.409	0.378	0.392	0.3840	0.1840	0.141	0.224	0.182	0.0300	0.311 J	0.0692	0.020 U	0.020 U	0.377	0.066	0.232	0.388	0.097	0.437	0.245	0.419	0.343	0.349	0.313
Total Petroleum Hydrocarbons	(μg/L)																								
TPH-G (C7-C12)	800	100 U	100 U	100 U	100 U	100 U	NM	NM	NM	100 U	100 U	100 U	100 U	100 U	NM	NM	NM	100 U	100 U	100 U	100 U	100 U	NM	NM	NM
TPH-D (C12-C24)	500	100 U	100 U	100 UJ	100 U	100 U	NM	NM	NM	100 U	100 U	100 UJ	100 U	100 U	NM	NM	NM	100 U	100 U	100 UJ	100 U	100 U	NM	NM	NM
TPH-O (C24-C40)	500	200 U	200 U	200 UJ	200 U	200 U	NM	NM	NM	200 U	200 U	200 UJ	200 U	200 U	NM	NM	NM	200 U	200 U	200 UJ	200 U	200 U	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

				W	ell ID²			
				GV	V264S			
Analyte	5/7/2018	11/13/2018	5/7/2019	11/11/2019	5/12/2020	8/10/2020	2/15/2021	8/10/2021
Volatile Organic Compound	nds (µg/L)							
cis-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.52	0.20 U	0.20 U
Vinyl Chloride	1.63	0.55	1.39	0.38	1.48	0.20 U	1.49	1.37

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 E

Summary of Remedial Actions

APPENDIX E

Summary of Remedial Actions at the Boeing Renton Facility May 2021 – October 2021

Boeing Renton Site Renton, Washington

Prepared for: The Boeing Company EHS Remediation

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

November 24, 2021

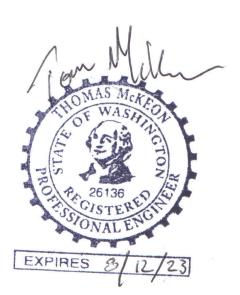


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Acronyms

AOC Area of Concern	
711 Cd O1 CO11CC111	

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**

granular activated carbon GAC

milligrams per liter mg/L 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 May 1, 2021 and October 31, 2021. 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;
- 2. 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, and;
- 3. Anaerobic biodegradation of benzene by nitrate/sulfate injections at the 4-78/79 Building.

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 4-78/79 Building (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 and a summary of the ongoing biological treatment and monitoring of groundwater at 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
```

This Tech Memo is organized as follows:

Section 1 - Introduction and Background

Section 2 – SVE System Operation and Monitoring

Section 3 – Groundwater Treatment

Section 4 – Conclusions and Recommendations Section 5 – References Attachment A – Field Data Sheets

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). Operational modifications have continued at the SWMU-172/174 SVE system to optimize VOC removal for that area. The following sections summarize the operating conditions, operational changes, and performance monitoring/evaluation for the SWMU-172/174 SVE system performed in May to October 2021.

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. 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.

2.1.1 TO-15 Laboratory Analysis of Vapor Samples

No samples for TO-15 analysis were collected during this operating period. Table 2-1 summarizes the TO-15 detections for the SWMU-172/174 SVE system for 18 TO-15 sampling events¹ that have been implemented since system startup.

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

2.1.2 Summary of Operations and Operational Changes

The soil confirmation samples collected in the second quarter of 2018 identified a location between SVE-2 and SVE-3 which still showed detectable PCE levels in soil. During all subsequent reporting periods, the SVE system was adjusted to alter the flushing pattern through this area by using SVE-3 as an inlet vent well with continued extraction through SVE-2 and SVE-1 or using SVE-1 as an inlet vent well with continued extraction through SVE-2 and SVE-3. Vapor concentrations, measured with a PID, are monitored following these adjustments and additional modifications to alter the flushing pattern are made when vapor concentrations decline to previous low-level detections.

During this reporting period, the system operated with SVE-1 as an air inlet well with extraction at SVE-2 and SVE-3. PID vapor concentrations remained low and relatively unchanged at the operating wells and system influent during this operating period. Prior operational changes included swapping between wells and the data demonstrate that these concentrations remain at asymptotic levels and an evaluation of SVE system shutdown is planned. 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.

2.1.3 Mass Removal Estimate

Between April 17, 2015 and October 29, 2021 the SWMU-172/174 SVE system has recovered an estimated 23.8 pounds of VOCs (primarily PCE), as shown in Table 2-3. Approximately 1.7 pounds of VOCs were removed during the current reporting period (May to October 2021) based on the PID measurements collected while the system was operating. The PID results from July 16, August 17, September 24, and October 8, 2021 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 Recommended Next Steps for the SVE Systems

Vapor concentrations measured with PID during this reporting period show SVE-2, SVE-3, and the system influent have remained at reduced levels similar to prior asymptotic low-level concentrations (see Figure 2-3). Summa can samples for TO-15 analysis will be planned for the next reporting period to monitor changes in vapor concentrations, if observed.

SVE system shutdown and rebound testing is recommended following procedures outlined in the Engineering Design Report (AMEC 2014). The evaluation will also consider operating the SVE system in a pulsed mode in order to determine if there is any benefit to cyclical operation.

3.0 Ongoing Groundwater Treatment

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

Beginning in late 2017, anaerobic biodegradation of benzene using nitrate and sulfate injections was implemented for a small area at the Building 4-78/79 area. Boeing has continued additional nitrate/sulfate injections in the area; the most recent injection was completed in January 2021 (ninth event). Boeing planned a removal action of fuel-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. Additional nitrate/sulfate injections are planned for this area in November 2021, utilizing similar target concentrations of nitrate and sulfate (1,600 mg/L and 800 mg/L, respectively) to what was injected during recent prior injection events.

4.0 Conclusions and Recommendations

Asymptotic low levels of vapor concentrations were observed at the SWMU 172/174 operating SVE wells and system influent during the May to October 2021 operating period (see Figure 2-3). Rebound testing is recommended in order to evaluate whether SVE operations should be discontinued. SVE system shutdown will be considered if the system continues to show asymptotic low level vapor concentrations following rebound testing. Boeing will coordinate with Ecology and seek agency concurrence prior to discontinuing SVE system operations.

A limited source-area excavation at the Building 4-78/79 benzene treatment area was completed in September 2021 and included the installation of two new horizontal injection wells for continued TPH/benzene treatment in groundwater (CALIBRE, 2021b). Additional nitrate/sulfate injections are planned based on the monitoring results from site-wide sampling completed during this reporting period.

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 construction work estimated for late 2022, the well monitoring network will be replaced and 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 supplemental VOC and TOC sampling at selected wells.

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

System	

SVE System Inlet	,	,	,	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
4/17/2015	1,500	130	120	ND	ND	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,763	1,763
10/13/2015	400	31	13	ND	ND	3.3	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	1.1	2.2	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	11	ND	ND	2.4	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	1.2	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	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	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						1														1				
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	3 430	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	3 170	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
, , ,				1		1																		
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				1		1																		
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				1		1																		
B)	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
1/7/2021 ((5-09-				<u> </u>																1				
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
SVE-1																								
															2-Butanone					1,3,5-	1,2,4-	TPH ref. to		l
			cis-1,2-	trans-1,2-	Vinvl										(Methyl Ethyl		Ethyl	Propylbenze				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		1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND ND	11	11
																				1				
SVE-2																								
		1																						
					l			l	l	l		l			2-Butanone					1,3,5-	1,2,4-	TPH ref. to		i
			cis-1,2-	trans-1,2-	Vinyl			l	l	l	l	l			(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
8/30/2018		14	6.1	NA	ND	NA	NA	NA	NA	NA	NA	NA NA	NA	NA	ND ND	ND	ND	ND	ND	ND	ND	ND	200	200
2/13/2019	48	3.3	2.8	NA NA	ND	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	54	54
6/20/2019		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	116	118
0/20/2013	100	5.0	3.1	140	140	1.7	140	IND	1.7	110	140	140	III	140	ND	140	110	NO	NU	IND	IND	NU	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	20	3.6	1.4	ND	ND	1.0	IND	IND	IND	ND	ND	IND	IND	140	ND	IVD	ND	ND	IND	140	IVD	IND	- 33	- 33
Hre	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
9/23/2020		6.7	5.6	ND	ND ND	ND	ND	ND	ND	ND	1.9	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND ND	ND	54	56
3/23/2020	/I →∠	0.7	5.0	ND	ND	ND	IND	ND	ND	ND	1.5	ND	140	140	ND	IND	ND	ND	ND	ND	IND	IND	J4	

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

SVE-3

345-3																								
															2-Butanone					1,3,5-		TPH ref. to		1
				trans-1,2-	Vinyl										(Methyl Ethyl		Ethyl	Propylbenze		Trimethylben	,	Gasoline	Total	Total
Date	PCE	TCE	DCE	DCE	Chloride	1,1,1-TCA		Acetone	Toluene		Chloroform	•	Pentane	Hexane	Ketone)	Benzene	Benzene	ne	Cumene	zene	zene		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

VPC Outlet

																2-Butanone					1,3,5-	1,2,4-	TPH ref. to		1 1
				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
	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

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
5/4/2021	1,979	Vent	23	142	136		0	Replaced hr meter
5/10/2021	1,985	Vent	67	255	176		0	
5/20/2021	1,995	Vent	55	200	206	14	0	Topped off oil
5/27/2021	2,002	Vent	50	385	274			
6/3/2021	2,009	Vent	56	232	272	0	0	
6/18/2021	2,024	Vent	130	282	320	19	0	
7/1/2021	2,037	Vent	191	271	342			
7/9/2021	2,045	Vent	5	88	445			
7/16/2021	2,052	Vent	229	263	1,327			
8/2/2021	2,069	Vent	11	293	278		0	Changed oil
8/17/2021	2,084	Vent	2	58	4,320			
8/23/2021	2,090	Vent	63	273	257		0	Topped off oil
								System down on arrival. Added oil and restart.
9/10/2021	2,108	Vent	0	0	0		0	Screen ~ 1 hr after restart.
9/24/2021	2,122	Vent	0	3,226	2,030			
10/8/2021	2,136	Vent	0	10,790	9,293			
10/15/2021	2,143	Vent	63	63	193		0	7 gallons of condensate
10/29/2021	2,157	Vent	27	304	236		0	2 gallons condensate

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)
5/4/2021	136	79	105	38,781	0.092	22.18
5/10/2021	176	102	105	38,924	0.037	22.22
5/20/2021	206	120	105	39,163	0.073	22.29
5/27/2021	274	159	108	39,339	0.073	22.37
6/3/2021	272	158	105	39,499	0.064	22.43
6/18/2021	320	186	105	39,858	0.170	22.60
7/1/2021	342	198	105	40,175	0.160	22.76
7/9/2021	445	258	105	40,367	0.127	22.89
7/16/2021 ³	445	258	105	40,535	0.111	23.00
8/2/2021	278	161	108	40,942	0.172	23.17
8/17/2021 ³	278	161	105	41,301	0.148	23.32
8/23/2021	257	149	105	41,443	0.054	23.37
9/10/2021	0	0	105	41,778	0.000	23.37
9/24/2021 ³	257	149	105	42,113	0.128	23.50
10/8/2021 ³	257	149	105	42,452	0.129	23.63
10/15/2021	193	112	105	42,615	0.047	23.68
10/29/2021	236	137	105	42,953	0.118	23.79

Notes:

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

TO-15 analysis results showed Tetrachloroethene made up 88% of the total VOCs removed at the influent on 1/5/21.

¹ A correction factor of 0.58 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 1/5/21. This number is much higher than the TO-15 results.

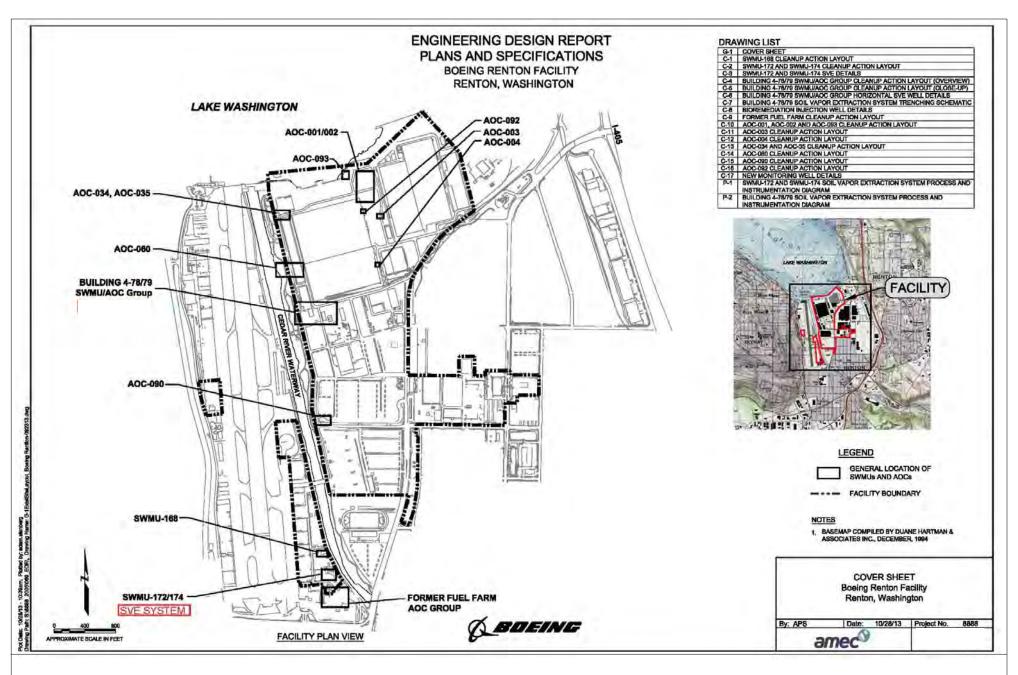
² These are based soley on the PID measurements collected this period; the prior TO-15 analyses indicates much lower mass.

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 3-1 Groundwater Monitoring Results Summary August 2021 and Recommended ERD Treatment

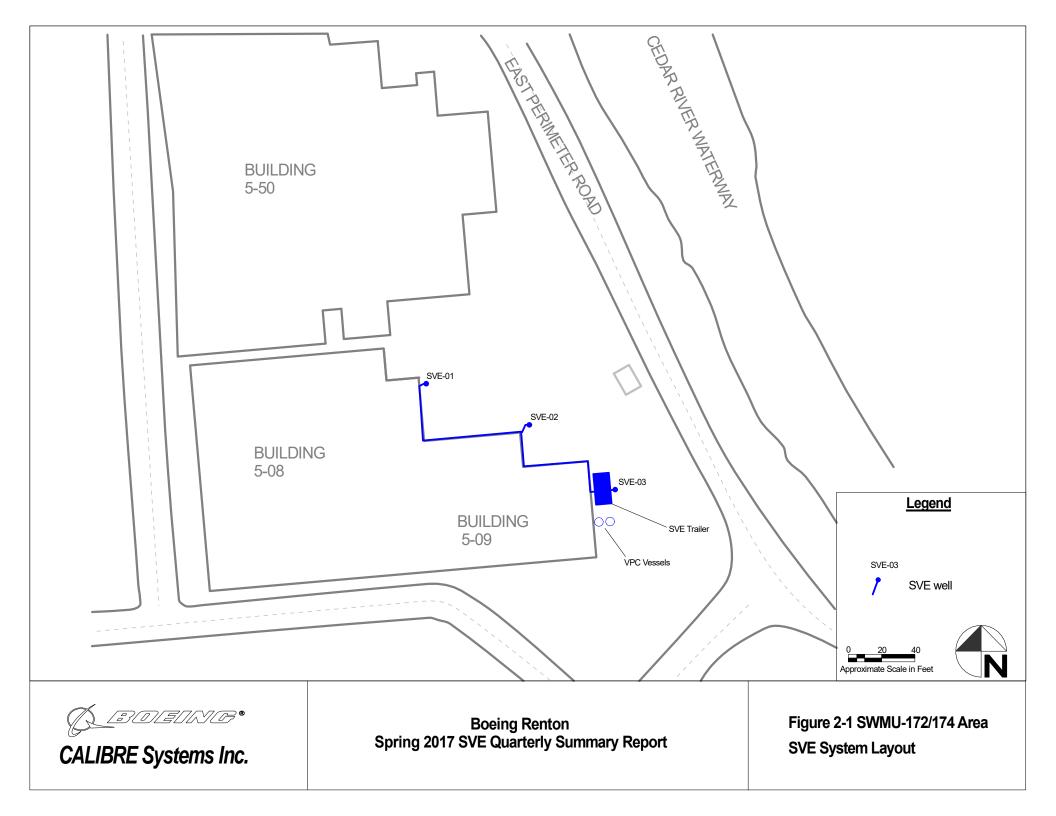
GW Treatment Area	Source and down gradient MWs	CPOC wells	Treatment IWs	ERD Treatment Recommendation
SWMU-172/174	PCE at or less than 0.09 ug/L; TCE is less than 0.13 ug/L; cisDCE less than 1.4 ug/L and VC less than 0.60 ug/L.		Prior data Mar 2018, North and South IWS showed total CVOCs range from 0.03 ug/L to 6.90 ug/L. TOC near background.	Recommend additional injections to continue driving CVOCs down.
Building 4-78/4-79 SWMU/AOC Group	TCE is nondetect, cisDCE is under 0.55 ug/L in all samples; VC is higher in GW033S (at 2.31 ug/L). Benzene reduced in source well GW031S (1.08 ug/L) and around the same in GW033S (14.5 ug/L). TPH-G remain above criteria at GW031S. Soil excavation completed Sept 2021 after monitoring.	levels.	Prior data May 2017, 4 of 5 wells with low detections where sum of CVOCs are less than 3 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 less than 0.8 ug/L.	VC less than 0.8 ug/L.	Prior data May 2017 one of four IWs sampled – VC detection less than 0.30 ug/L	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	G	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 total CVOCs 4.11 ug/L, primarily cis-1,2DCE; down gradient well with VC at 0.43 ug/L.	VC detections less than 0.32 ug/L.	-	Recommend additional injections to continue driving CVOCs down.
Apron A	cis-1,2DCE is nondetect and VC reduced to 1.37 ug/L	-	-	Recommend additional injections to continue driving CVOCs down.
SWMU-168	-	VC estimated at 0.36	-	Consider additional injections if beneficial after review of future sample results.
Building 4-70	-	Prior data March 2020, total CVOCs less than 0.63 ug/L.	-	No action at this time.

FIGURES



CALIBRE Systems, Inc.

Figure 1-1 Site Location/ AOC Outlines



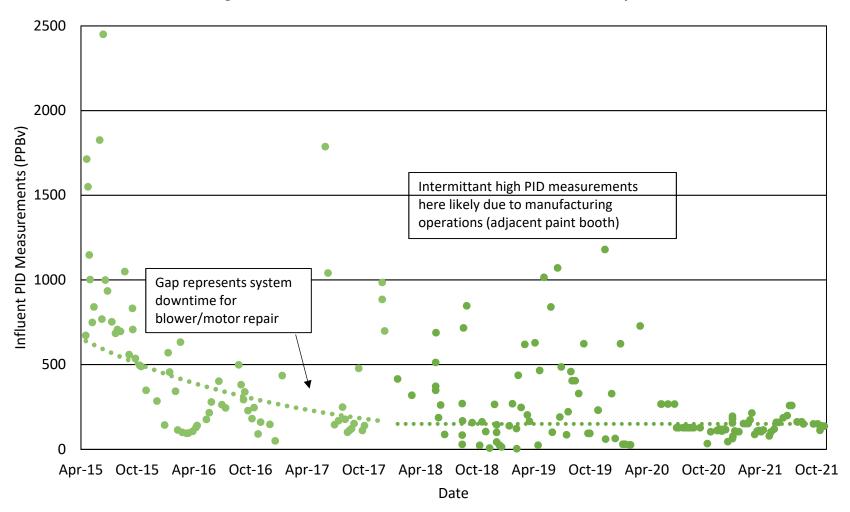
24.0 COVID-19 and 22.0 Carbon drying 20.0 18.0 16.0 Gap represents system Rebound testing VOCs Removed (lbs) downtime for 14.0 blower/motor repair 12.0 10.0 8.0 6.0 4.0 2.0 0.0 Apr-15 Oct-15 Apr-16 Oct-16 Apr-17 Oct-17 Apr-18 Oct-18 Apr-19 Oct-19 Apr-20 Oct-20 Apr-21 Oct-21 Date —VOC Mass Removed —Operational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

	•		1 1
Inspection Date: _	5/4/21	Date of last inspe	ction: 4 (15/2)
			
Periodic systems o	HEUR.	oisture separator, water	storage drums
1) Check flowrate,	vacuum, piessuie, in	VDC outlet with PID	
2) Check each SVI	<u> well, VPC inlet, and</u>	VPC outlet with PID.	onitoring interval is variable.
	Opera	ational Parameters - IVII	Jillioning interval to variable.
Inspection Time:	0930	Motor Hours: 0.0	(Installed new hr met
Blower	Current Value		Other Notes
Vacuum gauge	31"420	No conclar sert	₹.
Pressure gauge	3º 4w		
System flow rate	1055iFM		
Blower Temperature	100108		
Temp.at lag			and a size 6 tilbrotion
Other notes: che	eck oil level, drive bel	ts, TEFC motor fan, any	unusuai noise/vioration
PID Model:	PBRAE 3000	Details	D PP5/9,999pp6

PID Model: 7	PBRAE	3000	Details:	D PP5/9	1,999 806		
Calibration time/	date: 5/	1/21 0930	PID check	cafter 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		20 776	25 pps				
SVE-03		136 976	147 ppb				
VPC Inlet		132 pps	140 ppb				
VPC Midpoint							
VPC Outlet		Ogg O	طوم 0				
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 mon	te @ (360) 981-5606 itoring event scan monitoring forms and e	mail to Justin Neste: Justin Nes	te@calibresys.com
Signature	Justin N.15th Printed Name	Signature	

Inspection Date: Periodic systems	check:	Date of last inspection: 514121	
		noisture separator, water storage drums	
2) Check each SV		d VPC outlet with PID.	
		rational Parameters - Monitoring interval is variable.	
Inspection Time:	0840	Motor Hours: j 43	
Blower	Current Value	Other Notes	
Vacuum gauge	30"H20	No condensate in Knockout	
Pressure gauge	5"H2		
System flow rate	105 SUFM		
Blower Temperature	112°5		
Temp.at lag VPC discharge	Nor Taken		

PID Model:	PPB 2F	1E 3000	Details:	Dopb	10.01 PF	do								
Calibration time	e/ date: 5 [10/21 0840	PID chec	PID check after monitoring:										
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated ¹							
SVE-01	Veni.	5		*										
SVE-02	0915	43770	51996	2" 4120		75"Hz								
SVE-03	0925	269 ppb	240 ppb	10"1120		>5"420								
VPC Inlet	0900	170 ppb	181PP5											
VPC Midpoint														
VPC Outlet	0010	0 776	0776											
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.com

Signature Signature Signature Signature

	vacuum, pressure, n	Date of last inspection: 5 (10 (21)
2) Check each SV		d VPC outlet with PID. rational Parameters - Monitoring interval is variable.
Inspection Time:	0826	Motor Hours: 382.8
Blower	Current Value	Other Notes
Vacuum gauge	33420	Topped off bloner oil
Pressure gauge	5 H20	
System flow rate	105 Schon	
Blower Temperature	10905	
Temp.at lag VPC discharge	_	
Other notes: che	ck oil level, drive bel	s, TEFC motor fan, any unusual noise/vibration

PID Model:	PPB RH		Details:	Details: Oppb/10.01 ppm						
Calibration time	e/ date: 5/-	20/21 0830	PID chec	PID check after monitoring:						
			PID Reading (2)			Differential Pressure	Flow Rate Calculated ¹			
SVE-01 vent										
SVE-02	6910	60 795	50 PPB							
SVE-03	0858	197 pipb	202 ppb							
VPC Inlet	0850	202 PPB	210 276			*				
VPC Midpoint	2845	18 pps	10 pps							
VPC Outlet	0840	0 996	Opple		\$.	7				
Other vapor point			F. C.	· t						

^{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 monitor	oring event scan monitoring forms and er	mail to Justin Neste: Justin.Neste	@calibresys.com
	1	// -	2-1 1
Cianatura	Justin Neste	1 - m	5/20/21
Signature	Printed Name	Signature	Date

Check each SVE	well, VI O	Opera	ational Pa	arame	ters - Moni	oring	interval	is variable.		
Inspection Time:	1322		Motor F	lours:	558	7				
Blower	Current	Value	Other Notes							
Vacuum gauge	51									
Pressure gauge	7 · H									
System flow rate	10850	-IN								
Blower Temperature	115									
Temp.at lag	1				•	and I	- ci b sil	andian		
Other notes: che	ck oil level,	drive belf	ts, TEFC	motor	fan, any un	JSU2I I	noise/vii	oration		
PID Model:	PPBRA!	E 3000			Details:	0	10.0	3ppm		
Calibration time/			1322		PID check	after	monitori			
Sampling Point	Time	PID Re	eading PID		Reading (2)	Vacuui	uum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated
SVE-01										
SVE-02		500	ppb	44	PPS					
SVE-03		382	PPb	38	B ppb					
VPC Inlet		27	6 ppb	2-	11 276					
VPC Midpoint										
VPC Outlet										
Other vapor point										
Flow rate ca Questions? Call Journal of the Completion	untin Nooto	@ (360) (981-5606 It scan mo						n.Neste@calibr	esys.com

) Check each SVE	well, VPC inlet, and Oper	VPC outlet with PID. rational Parameters - Monitoring interval is variable.	
Inspection Time:	0834	Motor Hours: 718.9	
Blower	Current Value	Other Notes	
Vacuum gauge	31 "420		
Pressure gauge	5" H20		
System flow rate	105 SCFM		
Blower Temperature	11408		
Temp.at lag VPC discharge		lts, TEFC motor fan, any unusual noise/vibration	

PID Model:	PPB R	HE 3000	Details:	PID check after monitoring:					
Calibration time	Litera	5/21 0834	PID chec						
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated ¹		
SVE-01									
SVE-02	0930	50 Pb	62 ppb						
SVE-03	6920	26/700	202 ppb						
VPC Inlet	0905	301 PP5	242 pps						
VPC Midpoint	6900	0 ppb	O ppb						
VPC Outlet	0845	0 ppb	OPPS						
Other vapor point									

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

Questions? Call Justin Nes	te @ (360) 981-5606 itoring event scan monitoring forms and email	to Justin Neste: Justin.Nes	te@calibresys.com
	Justin Neste apoulassen		6/3/21
Signature	Printed Name	Signature	Date

2) Check each SVE	well, VPC inlet, and	ational P	arameters - Mon	itoring interval	is variable.		
Inspection Time:	19730	Motor I					
Blower	Current Value			Oth	er Notes		
Vacuum gauge	30"4/20						
Pressure gauge	5" Hzv						
System flow rate	1055cfm						
Blower Temperature	11308						
Temp.at lag							
Other notes: che	eck oil level, drive be	ts, TEFC	motor fan, any ur	iusual noise/vib	oration		
			Details:		1		
PID Model:	PID Model: PPB RAE 300				10.00 PF	m	
Calibration time/		135	PID chec	k after monitori	ng:		
Sampling	a les los	eading	PID Reading	Vacuum	Flow Rate	Differential	Flow Rate

PID Model:	PPB 2	AE 300	Details:		1 10.00 PF	m				
Calibration time	e/ date:	18/21 0735	PID check	PID check after monitoring:						
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated ¹			
SVE-01										
SVE-02	0815	134 pps	126 ppb							
SVE-03	0825	290 ppb	273 ppb							
VPC Inlet	0805	330 ppio	309 ppb							
VPC Midpoint	6755	24 pp b	13 ppb							
VPC Outlet	0750	D pps	Oppb							
Other vapor point										

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

Questions? Call Justin Neste At the Completion of a monit	e @ (360) 981-5606 coring event scan monitoring forms and e	mail to Justin Neste: Justin.Ne	ste@calibresys.com
	Justin Deste	Dir	6/18/21
Signature	Printed Name	Signature	Date

			Parame		oring interval	is variable.		
Inspection Time:	1210		r Hours:	1394.3		N. A. C.		
Blower	Current				Oth	er Notes		
Vacuum gauge	30"42	C)						
Pressure gauge	5" Hzi	A STATE OF THE PARTY OF THE PAR						
System flow rate	105 Sif	-m				1	L178 A DTW 10 1 B 78-17	gre-
Blower Temperature							B78-17	4.00
Temp.at lag VPC discharge	1						378-20	4 35
Other notes: che	eck oil level,	drive belts, TEF	C motor	fan, any uni	ısual noise/vi	bration		
PID Model:				Details:	0.0		Tab.	
		7E 300		PID check	after monitor	10.12 pp	, m	
Calibration time/	11	1/21 12	The state of the s		6757	Flow Rate	Differential	Flow Rate
Sampling Point	Time	PID Reading (1)	PID	Reading (2)	Vacuum	(gauge)	Pressure	Calculated
SVE-01								
SVE-02	400	179 275	20	2 PP 5				
SVE-03		329 975	21	13 ABP				
VPC Inlet		329 ppb	. 20	76 ppb				
VPC Midpoint								
VPC Outlet								
Other vapor point								
Flow rate ca	lculated from t	he equation Flow Ra	te (cfm) =	= $12.24 \times \sqrt{diff}$	erential pressur	re.		
Questions? Call J	ustin Neste	@ (360) 981-56	06		t and the first	tis Master Insti	n Nesto@ealibr	oeve com
Questions? Call J	ustin Neste	@ (360) 981-56	06 monitorii	ng forms and	email to Jus	tin Neste: Justi	n.Neste@calibr	esys.com

Renton Cleanup Action SVE System - SWMU 172/174 Field Operations Log Form Date of last inspection: Inspection Date: Periodic systems check: 1) Check flowrate, vacuum, pressure, moisture separator, water storage drums 2) Check each SVE well, VPC inlet, and VPC outlet with PID. Operational Parameters - Monitoring interval is variable. Motor Hours: 1586.3 Inspection Time: 1210 **Other Notes Current Value** Blower Vacuum gauge 30" Pressure * H20 gauge System flow 105 scfm rate 12704 Blower Temperature Temp.at lag VPC discharge Other notes: check oil level, drive belts, TEFC motor fan, any unusual noise/vibration Details: 10.02 PPM PPB RAE 3000 PID Model: PID check after monitoring: Calibration time/ date: 7921 1210 Flow Rate Differential PID Reading Vacuum Flow Rate PID Reading Time Sampling Calculated1 Pressure (gauge) (2)(1) Point SVE-01 10 pps SVE-02 U ppb 47 pp5 129 ppb SVE-03 416 ppb **VPC** Inlet 473 P75 **VPC** Midpoint **VPC** Outlet 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.com

Printed Name

Signature

Date

Signature

) Check flowrate, v) Check each SVE	well, VPC	inlet and	VPC out	let with	I PID.	toring interval	is variable		
Inspection Time:	124		Motor I		1754		io rantazio		
Blower	Current				1101		er Notes		
Vacuum gauge		1.420							
Pressure gauge		5 "H20							
System flow rate	105	SCFM							
Blower Temperature	1060 6								
Temp.at lag VPC discharge									
Other notes: che	ck oil level,	drive belts	s, TEFC	motor	fan, any un	usual noise/vil	oration		
PID Model:	PPOI	2 HE 300	10		Details:	0.0 /1	0.08 Jpm		
Calibration time/	lata:	16/21	1240		PID check	after monitori	ing:		
Sampling Point	Time	PID Re	-	PID	Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate
SVE-01									
SVE-02		208	PPb	25	70 PP5				
SVE-03		268		25	57 PPb				
VPC Inlet		1408	طوح	12	46 PPB				
VPC Midpoint									
VPC Outlet									
Other vapor point	CADIT								
Flow rate cal Questions? Call Ju At the Completion		@ (200) 0	01 5606			ferential pressur d email to Jus		n.Neste@calibr	esys.com

	/E well, VPC inlet, ar	rational Parameters - Monitoring interval is variable.
Inspection Time:	1130	Motor Hours: 2161-5
Blower	Current Value	Other Notes
Vacuum gauge	30"1/20	Changed Blower Oil
Pressure gauge	5" 1410	
System flow rate	08 50FM	
Blower Temperature	127°F	
Temp.at lag VPC discharge		
Other notes: che	eck oil level, drive be	ts, TEFC motor fan, any unusual noise/vibration
PID Model:	PPB RAE 3000	Details: 0.0 / 10.0 ppm
Calibration time/		PID check after monitoring:
Sampling	Time PID Re	ading PID Reading Vacuum Flow Rate Differential Flow Rate

	0	12/21 1130		PID check after monitoring:					
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated ¹		
SVE-01									
SVE-02	1720	12 pp 6.	16 ppb	3.		- 1			
SVE-03	1210	302 ppb	284pp			13			
VPC Inlet	1200	282 PPL	274 ppb.						
VPC Midpoint		K a	=			1			
VPC Outlet	1150	· 0 ppb	OPPD	7					
Other vapor point _				* *	7				

^{1.} Flow rate calculated from the equation F

= $12.24 \times \sqrt{differential}$ pressure.

Questions? Call Justin Nes At the Completion of a mo		email to Justin Neste: Justin.Nes	ste@calibresvs.com
	Property.	A CONTRACTOR OF THE CONTRACTOR	stewcallbresys.com
Signature	InstiniVaste	1 hin	8/2/21
3	Printed Name	Signature	Date

Inspection Time:	11.12	Motor F	arameters - Moni		is variable.		
Blower	Urrent	Value			er Notes		
Vacuum gauge	30" Hri						
Pressure gauge	5" Hud						
System flow rate	10550	Fin					
Blower Temperature	HALI	709					
Temp.at lag							
Other notes: che	eck oil level,	drive belts, TEFC	motor fan, any un	usual noise/vil	oration		
PID Model:	-		Details:		3		
P	PB RHI	E 3000		after monitori	10.01 PP	m	
Calibration time/	date: 8 1	1/21 1115				Differential	Flow Rate
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Pressure	Calculated
SVE-01	Vent						
SVE-02		O ppb	3 ppb				
SVE-03		60 pp5	53 pp5				
200-00-00-00-00-00-00-00-00-00-00-00-00-		4,430 pps	499015,14				
VPC Inlet							
77.2		7 1					
VPC Inlet		/					
VPC Inlet VPC Midpoint							
VPC Inlet VPC Midpoint VPC Outlet Other vapor point	leulated from th		$(cfm) = 12.24 \times \sqrt{dif}$	ferential pressur	e.		
VPC Inlet VPC Midpoint VPC Outlet Other vapor point	lculated from th	ne equation Flow Rate	$(cfm) = 12.24 \times \sqrt{dif}$	ferential pressur	e.		
VPC Inlet VPC Midpoint VPC Outlet Other vapor point 1. Flow rate ca	(P - K) - K	ne equation Flow Rate				n Neste@calibr	esys.com
VPC Inlet VPC Midpoint VPC Outlet Other vapor point 1. Flow rate ca	(P - K) - K	ne equation Flow Rate				n.Neste@calibr	esys.com

) Check each SVE	well VPC inlet and	oisture separator, water storage drums VPC outlet with PID. ational Parameters - Monitoring interval is variable.	
Inspection Time:	0840	Motor Hours: 2662.4	
Blower	Current Value	Other Notes	
Vacuum gauge	32"420	Topof Blower oil	
Pressure gauge	5" H20		
System flow rate	105 SUFM		
Blower Temperature	11708		
Temp.at lag VPC discharge		ts, TEFC motor fan, any unusual noise/vibration	

PID Model:	003	2AE 3000	Details:	0/9,	997 206	7	
Calibration time		8/23/21 084	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	6570	62 ppb	63ppb				
SVE-03	6910	794ppb	252ppb 258ppb				
VPC Inlet	0900	256 ppb	258ppb				
VPC Midpoint							
VPC Outlet	0855	O PPb	Oppb				
Other vapor point							

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

Questions? Call Justin Nesto At the Completion of a monit	e @ (360) 981-5606 toring event scan monitoring forms and ema	il to Justin Neste: Justin.Nes	te@calibresys.com
	Justin West	1-n=	8/23/21
Signature	Printed Name	Signature	Date

) Check flowrate, v 2) Check each SVE	wall VPC inlet and	noisture separator, water storage drums d VPC outlet with PID. rational Parameters - Monitoring interval is variable.
Inspection Time:	1055	Motor Hours: 2997.8
Blower	Current Value	Other Notes
Vacuum gauge	30" H20	System Pown. Oil level lower 5 jobe Added oil of Restort. Screen @ 1210
Pressure gauge	10.420	Restort. Screen a
System flow rate	105 SCFM	
Blower Temperature	95°F	
Temp.at lag VPC discharge		Its, TEFC motor fan, any unusual noise/vibration

PID Model:	DPB R	AE 3000	Details:						
Calibration time/ date:		10/21 1200	PID chec	PID check after monitoring:					
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated ¹		
SVE-01									
SVE-02	1240	dag 6	O ppb						
SVE-03	1230	O ppio	Oppb						
VPC Inlet	1220	O ppl	Dppb						
VPC Midpoint									
VPC Outlet	1210	O PPB	0 PPb						
Other vapor point									

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

At the Completion of a monitoring event scan monitoring forms and		
Signature Justin IVeste	Signature	9/10/21 Date

0948 Current 32" 1 5" 42 105 SCF	Value H10	Addie	233	Oth	er Notes		
32" \ 5" 42 105 SCF	H20 ,0	Adda	l oil	Oth	er notes		
5" 42 105 SCF	, U	Adde	lial				
105 SCF							
	m						
oil level,	drive belts, TE	FC motor	fan, any un	usual noise/vil	oration		
22 0 A	F 3000		Details:	0/10	1.16 ppm		
/		9-5	PID check				
1/29/01 0 133			Reading	Vacuum	Flow Rate	Differential	Flow Rat
	(1)		(2)		(gauge)	Pressure	Calculate
	O DP	0 0	PPb				
			001 Ppb				
	2,350 PF	b 11	dag oir				
ated from t	he equation Flow	Rate (cfm) =	= $12.24 \times \sqrt{dif}$	ferential pressur	e.		1
in Neste a monito	@ (360) 981-6 oring event sca	5606 In monitori	ng forms an	d email to Jus	tin Neste: Justi	n.Neste@calibr	esys.com
	PBPA e: 9/	PB PA E 3000 e: 9 24 21	PB PAE 3000 e: 9 24 21 0955 Time PID Reading (1) 0 ppb 0 2,450 ppb 4, 2,350 ppb 1; ated from the equation Flow Rate (cfm) =	Details: PB PA E 3000 e: $9/24/21$	PBPAE 3000 e: $9/24/21$ 0955 Time PID Reading PID Reading Vacuum (2) $2/450$ PPb 0 PPb $2/450$ PPb 1/710 PPb $2/350$ PPb 1/710 PPb atted from the equation Flow Rate (cfm) = 12.24 × $\sqrt{differential\ pressur}$	PB PAE 3000 e: $9/24/21$ 0.955 PID check after monitoring: Time PID Reading (2) Vacuum Flow Rate (gauge) $2,450$ ppb $4,001$ ppb $2,350$ ppb $1,710$ ppb ated from the equation $Flow$ $Rate$ $(cfm) = 12.24 \times \sqrt{differential}$ pressure.	PBRAE 3000 Details: D 10.16 ppm PID check after monitoring: Time PID Reading (1) PID Reading (2) PID Reading (2) PID Reading (3) PID Reading (4) Pressure $ \begin{array}{cccccccccccccccccccccccccccccccccc$

tion Times:		Operational P				is variable.	The state of the s	
nspection Time:	1256	- 1 300	Touro.	3671.		er Notes		
Blower Vacuum gauge	Current			-	Oth	er notes		
vacuum gauge	34"1							
Pressure gauge	5"1	120						
System flow rate	105 5	océm						
Blower Temperature	11501	-						
Temp.at lag								
Other notes: che	ck oil level,	drive belts, TEFC	motor f	an, any unu	isual noise/vil	oration		
DID 14 dela				Details:	2/12/	0		
PID Model:		2AE 3000			after monitori			
Calibration time/	date:	0/8/21 1300					Differential	Flow Rate
Sampling Point	Time	PID Reading (1)	PIDI	Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Calculated
SVE-01								Telepoor .
SVE-02		0 ppb	0	PP5				
SVE-03		11,000 pp%	10,	5 80 PP				
VPC Inlet		81800 PPP	9,-	185 pps				
VPC Midpoint								
VPC Outlet								
Other vapor point								
	lculated from t	the equation Flow Rate	(cfm) =	$12.24 \times \sqrt{diff}$	erential pressur	re.		
 Flow rate ca 	liculated from t	the equation Flow Rate	(cfm) =	12.24 × \u11)	егений ргеззы			

) Check each SVE	well, VPC liflet, and	d VPC outlet with PID. Pational Parameters - Monitoring interval is variable.				
Inspection Time:	0743	Motor Hours: 3834.6				
Blower	Current Value	Other Notes				
Vacuum gauge	34"420	7 gal Condensate Added oil to bloom				
Pressure gauge	10"H20	Added oil to be				
System flow rate	10556FM					
Blower Temperature	11138					
Temp.at lag		ts, TEFC motor fan, any unusual noise/vibration				

PID Model:	AE 3000	Details:	Details: 0 / 9 9 9 3 PPb					
Calibration time	115/21 6750	PID check	PID check after monitoring:					
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated ¹	
SVE-01								
SVE-02	0875	63ppb	62ppb					
SVE-03	0815	186 ppb	62 ppb 200 pps					
VPC Inlet	0810		199 PB					
VPC Midpoint								
VPC Outlet	0800	0 225	O ppb					
Other vapor point			1					

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

Questions? Call Justin Neste (At the Completion of a monitor	@ (360) 981-5606 ring event scan monitoring forms and e	mail to Justin Neste: Justin.Ne	ste@calibresys.com
Signature	Du Stin West	Signature	10/15/71

		Operational P			-	is variable.			
nspection Time:	1036		Motor Hours: 4172.8 Other Notes						
Blower	Current				Otn	er notes			
Vacuum gauge	35"	170	20	jal con	ndensati				
Pressure gauge	8"H	10	2 gal Condensate Topped off blover oil						
System flow rate	10550								
Blower Temperature	110°F								
Temp.at lag VPC discharge			, TEFC motor fan, any <mark>unusual nois</mark> e/vibration						
Other notes: che	eck oil level,	drive belts, TEFC	motor	ran, any un	usuai noise/vii	oration			
PID Model:	PPBRAI	3000		Details:		оч ррм			
Calibration time/		रवीरा १०५०		PID check	after monitor	ing:			
Sampling Point	Time	PID Reading (1)	PID Reading (2)		Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated	
SVE-01									
SVE-02		35 ppb	F1.	PPb					
SVE-03		350 PP5	75	57 ppb					
VPC Inlet		245 PPb	2	26 PP5					
VPC Midpoint									
VPC Outlet		0	0						
Other vapor point									
	lculated from	the equation Flow Rate	(cfm) =	= $12.24 \times \sqrt{dif}$	ferential pressur	re.			
 Flow rate ca 									
Flow rate ca									
Flow rate ca									