

# **Groundwater Monitoring Report**

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

Prepared for:

**The Boeing Company** 

Seattle, Washington

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The Boeing Company Seattle, Washington

# Prepared by:

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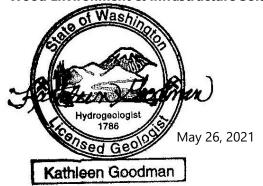
#### May 26, 2021

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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, 2021

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# 1.0 Introduction

This report provides progress reporting in conformance with Section VII.B.1 of Agreed Order No. 8191 (Order) and summarizes cleanup actions and monitoring conducted during the wet season of 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- The original monitoring plan presented in Appendix D of the EDR (AMEC, 2014) was superseded by the Compliance Monitoring Plan (CMP) (Amec Foster Wheeler, 2016a), which was subsequently revised in the Addendum to the CMP (CMP Addendum #1) (Amec Foster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) (Wood 2020) to Ecology on June 30, 2020 (CALIBRE, 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). This report includes results from monitoring for Apron A, as semiannual monitoring began in this area 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. The protection of groundwater for beneficial uses 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 Model Toxics Control Act (MTCA) since the draft CAP (AMEC 2012) was prepared that are relevant to the Facility CULs. Boeing recently submitted to Ecology some proposed updates to the CULs (CALIBRE 2021a), which are under review by Ecology. The measured COC concentrations in groundwater presented in this report are compared with the CULs specified in the CAP.

This semiannual report:

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

This report presents information based on monitoring activities conducted during the wet season 2021 for the period from November 2020 through April 2021. In accordance with the requirements of the Order, corrective action activities were conducted at the Facility as described in this report.

# 1.1 Work completed in the wet season 2021

The following work was completed during the wet season 2021, the period from November 2020 through April 2021:

- On behalf of Boeing, Wood submitted the dry season 2021 report to Ecology on November 13, 2020.
- Substrate injections were conducted on January 25 and 26, 2021. Details for system operations are included in the SVE operations and monitoring summary prepared by CALIBRE as discussed in Section 3.2.
- The injection wells in the Building 4-78/79 area were sampled by CALIBRE on April 1, 2021.
- Landau Associates completed the 2021 site-wide wet season sampling between February 15th and 17th 2021.

# 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 in the Compliance Monitoring Plan Deviations subsection for each sampling area.

#### 1.4 Schedule revisions

Modifications to the schedule are presented in CMP Addendum #3, and these changes are summarized in Appendix A. The Ecology-approved modifications in CMP Addendum #3 included 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 schedule is detailed in Appendix A, Table A-1. This revised sampling schedule began in August 2020.

In 2021, 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 2021 dry season event:

- 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).
- Soil with total petroleum hydrocarbons (TPH) exceeding CULs within the unsaturated and smear
  zones is planned for excavation on the east side of Building 4-79. Work is expected to take place in
  mid to late September 2021. More information is provided in Section 3.3.1.2 and a work plan for this
  event was submitted by CALIBRE Systems, Inc. in January 2021 and approved by Ecology on February
  2, 2021.
- Substrate injections to continue enhanced reductive dechlorination treatment for bioremediation will occur in SWMU 172/174, the Building 4-78/79 SWMU/AOC Group, AOC-003, AOC-060, AOC-090, and Apron A.

# 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 wet season of 2021. Operation of the SVE system at SWMU-172/174 continued during the wet season, as discussed in Section 3.2.1.2. Compliance monitoring was conducted in accordance with the CMP (Amec Foster Wheeler, 2016a) and CMP Addendum #3 (CALIBRE, 2020).

#### 3.1 **SWMU-168**

This section describes corrective action activities conducted at this SWMU. Figure 2 shows the locations of the groundwater monitoring wells at SWMU-168, 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 wet season.

# 3.1.2 Compliance monitoring plan deviations

No deviations from the CMP occurred for this area during the wet season. The wells monitored in this group changed with the acceptance of CMP Addendum #3 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 wet 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 is currently monitored in this group.

# 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. Groundwater in this area is monitored following the schedule presented in Tables A-1 and A-2 in Appendix A, which includes semiannual monitoring at the CPOC for both the area COCs and the primary geochemical indicators listed in Table A-2.

#### 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 results for dissolved oxygen (DO) and oxidation reduction potential (ORP) measurements indicate reducing conditions. The pH value measured was near neutral.

#### 3.1.4.2 COC results for source area

Groundwater samples were not collected from the source area well for SWMU-168, following the sampling schedule presented in Tables A-1 and A-2.

### 3.1.4.3 COC results for conditional point of compliance area

Monitoring results for the CPOC area well are shown in Table 3. The concentration of VC in the groundwater from CPOC area well GW230I was below the CUL for VC at 0.0764 micrograms per liter ( $\mu$ g/L). 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 wet season 2021.

#### 3.2.1.2 Soil vapor extraction and bioremediation operations

The SVE system operated throughout the wet season in 2021, with the exception of two shutdowns. One shutdown occurred from December 21, 2020, until January 5, 2021 due to the holiday break at Boeing. Another shutdown occurred from February 10, 2021, until February 18, 2021 because of heavy snow on site. The system was also sampled for TO-15 compounds during the wet season. Details for system operations are included in the SVE operations and monitoring summary prepared by CALIBRE and included as Appendix E.

# 3.2.2 Compliance monitoring plan deviations

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

#### 3.2.3 Water levels

Groundwater elevations for the SWMU-172 and SWMU-174 area measured during the wet season event 2021 are summarized in Table 4 and shown on Figure 4. The contoured water level elevation data for February 2021 show that groundwater generally flows northeast from SWMU-172 and SWMU-174 toward the Cedar River Waterway, with an approximate hydraulic gradient of 0.018 foot/foot.

# 3.2.4 Groundwater monitoring results

Groundwater in this area is monitored following the schedules 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. The pH measurements for all SWMU-172 and SWMU-174 monitoring wells were near neutral, between 6.0 and 7.0 standard units. The other natural attenuation parameter results indicate that geochemical conditions were generally uniform and reducing across this area. Reducing conditions indicate the dechlorination of volatile organic compounds (VOCs) are



likely throughout this area. Total organic carbon (TOC) concentrations ranged from 0.96 milligrams per liter (mg/L) to 12.97 mg/L for all SWMU-172 and SWMU-174 monitoring wells.

#### 3.2.4.2 COC results for source and downgradient plume areas

Table 6 lists wet season 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. Flow generally moves 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 and PCE (and the associated duplicate sample),
- GW153S: cis-1,2-DCE, and VC

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

- GW172S: PCE, cis-1,2-DCE and VC
- GW173S: cis-1,2-DCE and VC
- GW226S: No CUL exceedances were observed.

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 GW152S, GW153S, and GW172S; copper was detected above the CUL in the groundwater from GW226S. As shown in Figure 8, the arsenic concentrations in groundwater have generally remained stable since the last sampling event in source area well GW152S and wells from the downgradient plume area; there was an increase in GW153S. The observed range of arsenic in groundwater is within of the naturally occurring background arsenic range reported by Ecology<sup>1</sup> for Washington State (Ecology 2018).

#### 3.2.4.3 COC results for conditional point of compliance area

Results from the CPOC area wells are presented in Table 6, and trend charts for cis-1,2-DCE, TCE, and VC for all CPOC area wells are presented in Figure 9. As shown in Table 6, cis-1,2-DCE was detected above the CUL in the groundwater from CPOC area wells GW232S and GW235I; PCE was also detected above the CUL in the groundwater from GW235I; and VC was detected above the CUL in the groundwater from GW232S. TCE was not detected in the groundwater from the CPOC area wells.

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

<sup>&</sup>lt;sup>1</sup> The 2018 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. Most wells are non-detect but the natural background range includes more than 130 wells between 10-25 ug/L arsenic and more than 15 wells in the 25-75 ug/L arsenic range. This naturally occurring range is consistent with prior studies by USGS (2000) and Ecology (1989) in Washington State.



and lead concentrations have been stable for approximately one year, or three monitoring events, after a spike occurring in late 2019 through early 2020.

# 3.3 Building 4-78/79 SWMU/AOC group

This section describes corrective action activities conducted at the Building 4-78/79 SWMU/AOC Group during the wet season 2021. The cleanup remedy for this SMWU/AOC group is bioremediation and MA; SVE has been discontinued and the system was decommissioned. Figure 11 shows the location of groundwater monitoring wells, bioremediation wells, and SVE wells for this area.

# 3.3.1 Cleanup action activities

#### 3.3.1.1 Installation/construction activities

No installation/construction activities were conducted for this SWMU/AOC Group during the wet season 2021.

#### 3.3.1.2 Soil vapor extraction and bioremediation operations

#### Background:

At the Building 4-78/79 SWMU/AOC Group, soil samples were collected during the second quarter 2018 (Wood, 2018). Analytical results indicated that CULs were attained with one exception: the sample from 4.5 feet below ground surface at well PP13 had a concentration of TPH as gasoline (TPH-G) of 147 milligrams per kilogram (mg/kg), above the CUL of 30 mg/kg.

A revised investigation work plan (CALIBRE, 2019b) to inform the scope of work for excavating the soils near PP13 and GW031S (shown in Figure 11) was submitted to Ecology on May 8, 2019, in response to a request from Ecology. The investigation described in the work plan was conducted on June 13 and 14, 2019, and the results were submitted to Ecology in November 2019 (CALIBRE 2019c). Groundwater elevations were monitored during subsequent monitoring events to determine the best time for soil removal activities. As documented in an email to Ecology dated October 22, 2019, the soil excavation work had not been completed because groundwater levels were not low enough before the start of the rainy season to schedule the work. TPH-G concentrations in groundwater continue to be monitored. The workplan for soil excavation of the Building 4-78/79 hydrocarbon source area was submitted in January 2021 with an anticipated excavation start date of September 2021 (CALIBRE 2021b) and approved by Ecology on February 2, 2021.

#### Recent Activities:

Nitrate/sulfate injections were completed on January 25–26, 2021, with sampling taking place on April 1, 2021. Trend charts for *cis*-1,2-DCE and benzene in the 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 wet season event. The wells monitored in this group changed with the acceptance of CMP Addendum #3 by Ecology. Source area wells GW039S and GW243I; downgradient plume area wells GW038S, GW209S, and GW210S; and CPOC area wells GW238I, GW239I, GW241S, and GW242I were removed from the monitoring plan for this SWMU/AOC group. COCs remained the same for this group.



#### 3.3.3 Water levels

Table 7 presents the groundwater elevations measured during the wet season groundwater monitoring event at the Building 4-78/79 SWMU/AOC group. As shown in Figure 11, the observed direction of groundwater flow from the source area during February 2021 is generally to the west, with a hydraulic gradient of 0.0007 foot/foot.

# 3.3.4 Groundwater monitoring results

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. Groundwater at this area is monitored following the schedule presented in Tables A-1 and A-2 in Appendix A.

#### 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 0.38 to 1.15 mg/L, and high specific conductivity. The pH was near neutral in all wells, between 6.0 and 6.5 standard units. 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 5.79 to 34.55 mg/L.

#### 3.3.4.2 COC results for source area

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

In source area well GW031S (and the duplicate sample) benzene and TPH-G were detected above the CULs, and cis-1,2-DCE was detected below the CUL. In source area well GW033S, benzene, cis-1,2-DCE, and VC exceeded the CULs in groundwater, and TPH-G was detected below the CUL. Groundwater from well GW244S had detections above the CUL for TCE and VC, and detections below the CULs for benzene and cis-1,2-DCE.

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. Trends in GW033S appear to show greater fluctuation, with cis-1,2-DCE and VC results decreasing over the past six monitoring events. Figure 15 shows trends for VOCs in source area wells GW034S and GW244S. Concentrations of COCs in GW034S appear generally stable, with all COCs except for VC below laboratory detection limits for the past eight 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 wet season 2021 are summarized in Table 9. Trends for CPOC area wells GW143S, GW237S, and GW240D are shown in Figures 16 through 18. Neither cis-1,2-DCE, TCE, nor TPH-G were detected in groundwater from the CPOC area wells at concentrations above the CULs. Benzene and VC were detected above the CUL in groundwater from GW237S. As shown in Figure 16, benzene has been sporadically detected above CULs in the groundwater from CPOC area well GW237S but has not been detected above the CUL in the groundwater from any of the other CPOC wells. Cis-1,2-DCE has been detected sporadically in groundwater above CULs from CPOC area well GW143S (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).



# 3.4 Former Fuel Farm AOC group

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

# 3.4.2 Compliance monitoring plan deviations

No deviations from the CMP occurred for this area during the wet season. The wells monitored in this group changed with the acceptance of CMP Addendum #3 by Ecology. Source area well GW255S, and CPOC area wells GW183S, GW184S, GW212S, GW256S, GW257S, GW258S were removed from the monitoring program for this group. COCs remained the same for this group.

#### 3.4.3 Water levels

Groundwater elevations for the Former Fuel Farm AOC Group measured during the wet season event are summarized in Table 10 and shown on Figure 19. Groundwater elevation contours are not shown since only three wells are monitored in this group and data is 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. Groundwater in this area is monitored following the schedule presented in Tables A-1 and A-2 in Appendix A.

#### 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. The pH in CPOC area wells was very close to 6.0 standard units in all wells. DO was generally low across wells in this area, and ORP was moderate for groundwater. The geochemical indicators indicate that conditions are generally conducive to natural attenuation of the COCs for the Former Fuel Farm AOC Group.

#### 3.4.4.2 COC results for source area

The single source area well for this group was removed from the monitoring plan with the acceptance of CMP Addendum #3.

## 3.4.4.3 COC results for conditional point of compliance area

CPOC area monitoring results are presented in Table 12. Figure 20 shows trend data for CPOC area wells GW211S, GW221S, and GW224S. Figure 20 shows that the wet season event results for these wells are consistent with the historical monitoring results since late 2013. Samples were analyzed for TPH as diesel (TPH-D), motor oil (TPH-O), and Jet A ranges. 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 seven monitoring events. The spike in COC concentrations in GW221S during previous monitoring events has returned to normally observed ranges for this well. Concentrations in GW224S appear to be decreasing steadily.



#### 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 wet season 2021. Monitoring wells in these areas were removed on November 25, 2019. Monitoring wells are planned to be reinstalled when construction is complete, currently anticipated for late 2022.

#### 3.6 AOC-003

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

# 3.6.2 Compliance monitoring plan deviations

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

#### 3.6.3 Water levels

Table 13 presents the groundwater elevations measured during the wet season event at AOC-003. Figure 21 shows the groundwater elevations from this event. Groundwater flow direction is estimated based on historical information of the area.

#### 3.6.4 Groundwater monitoring results

Groundwater at AOC-003 is monitored following the schedule presented in Tables A-1 and A-2 in Appendix A. 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. pH readings were near neutral for all wells in this area. Low DO and negative ORP readings were observed during this monitoring event, indicating reducing conditions.

#### 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 wells were above the CUL. Figure 22 shows the historical trends of VC in GW249S and 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 wet 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 wet season event.

# 3.7.2 Compliance monitoring plan deviations

No deviations from the CMP occurred for this area during the wet season. The wells monitored in this group changed with the acceptance of CMP Addendum #3 by Ecology. CPOC area well GW174S was removed from the monitoring program for AOC-004. COCs remained the same.

#### 3.7.3 Water levels

Table 16 presents the groundwater elevation measured during the wet season event at AOC-004. Figure 24 shows the groundwater elevation from this event. Groundwater flow directions cannot be determined from the available groundwater elevation data.

# 3.7.4 Groundwater monitoring results

Groundwater at AOC-004 is monitored following the schedule presented in Tables A-1 and A-2 in Appendix A. 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 6.9 standard units. Moderate DO and a negative ORP readings were observed during this monitoring event.

#### 3.7.4.2 COC results for source area

The source area well in this group was analyzed for lead. 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 wet 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 wet season event.



# 3.8.2 Compliance monitoring plan deviations

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

#### 3.8.3 Water levels

Table 19 presents the groundwater elevations measured during the wet season event at AOC-060. Figure 26 shows the groundwater elevations from this event. Groundwater flow direction is generally to the southwest, toward the Cedar River Waterway, with a hydraulic gradient of approximately 0.005 foot/foot.

# 3.8.4 Groundwater monitoring results

Groundwater at AOC-060 is monitored following the schedule presented in Tables A-1 and A-2 in Appendix A. 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. The pH was near neutral in this AOC, with one well below 6.0 standard units, and all other wells between 6.0 and 7.0 standard units. High specific conductivity, moderate DO, and negative ORP readings were observed during this monitoring event. Wells in AOC-060 had a large range of TOC results with most wells falling between 2 mg/L and 6 mg/L, and two wells measuring 30.18 mg/L and 653.1 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.Source area well GW009S and the downgradient plume area well GW014S field duplicate 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

CPOC area well GW150S had detections of cis-1,2-DCE and VC, but did not exceed CULs. The sample results from GW253I exceeded the CULs for cis-1,2-DCE and TCE and was below the CUL for VC. 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 wet 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 wet season event.



# 3.9.2 Compliance monitoring plan deviations

No deviations from the CMP occurred for this area during the wet season. The wells and COCs monitored in this group changed with the acceptance of CMP Addendum #3 by Ecology. Wells GW163I, GW175I, 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 wet season event at AOC-090. Figure 30 shows the groundwater elevations from this event. Determined from historical monitoring events, groundwater flow direction is generally to the west, toward the Cedar River Waterway.

# 3.9.4 Groundwater monitoring results

Groundwater at AOC-090 is monitored following the schedule presented in Tables A-1 and A-2 in Appendix A. 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 a range of 6.09 to 6.51 standard units. Low DO and negative ORP readings were observed during this monitoring event. TOC in GW189S was measured at 11.66 mg/L.

#### 3.9.4.2 COC results for source and downgradient plume areas

Groundwater from source area well GW189S exceeded the CUL for TCE, TPH-D, and TPH-O; all other CVOCs and TPH results were below CULs. 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

CPOC area wells GW178S and GW208S exceeded the CUL for VC. The VC detection in well GW207S was below the CUL.

## **3.10 Building 4-70 area**

The Building 4-70 Area was removed from the monitoring program with the acceptance of CMP Addendum #3.

#### 3.11 Lot 20/Former Building 10-71 Parcel

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

#### 3.12 Apron A area

This section describes corrective action activities conducted at the Apron A area during the wet season event. The cleanup remedy proposed for the Apron A area is bioremediation and MA. Figure 32 shows the locations of the groundwater monitoring wells in the Apron A area.



# 3.12.1 Cleanup action activities

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

# 3.12.2 Compliance monitoring plan deviations

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

#### 3.12.3 Water levels

The depth to groundwater measurements during the wet season at Apron A are presented in Table 25 and on Figure 32. Groundwater elevations are not available because the top of casing elevations was never surveyed. Groundwater flow direction is estimated based on historical information of the area.

# 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. Groundwater in this area is monitored following the schedule presented in Tables A-1 and A-2 in Appendix A.

# 3.12.4.1 Monitored attenuation/geochemical indicators

Geochemical parameters are presented in Table 26. Observations included moderate DO, slightly acidic pH of 5.98 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 was in place (Amec Foster Wheeler, 2016a). 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 1.49  $\mu$ g/L. This exceeds the CUL for VC of 0.11  $\mu$ g/L in SWMU-168, the closest area of monitoring to Apron A on the west side of the Cedar River Waterway.

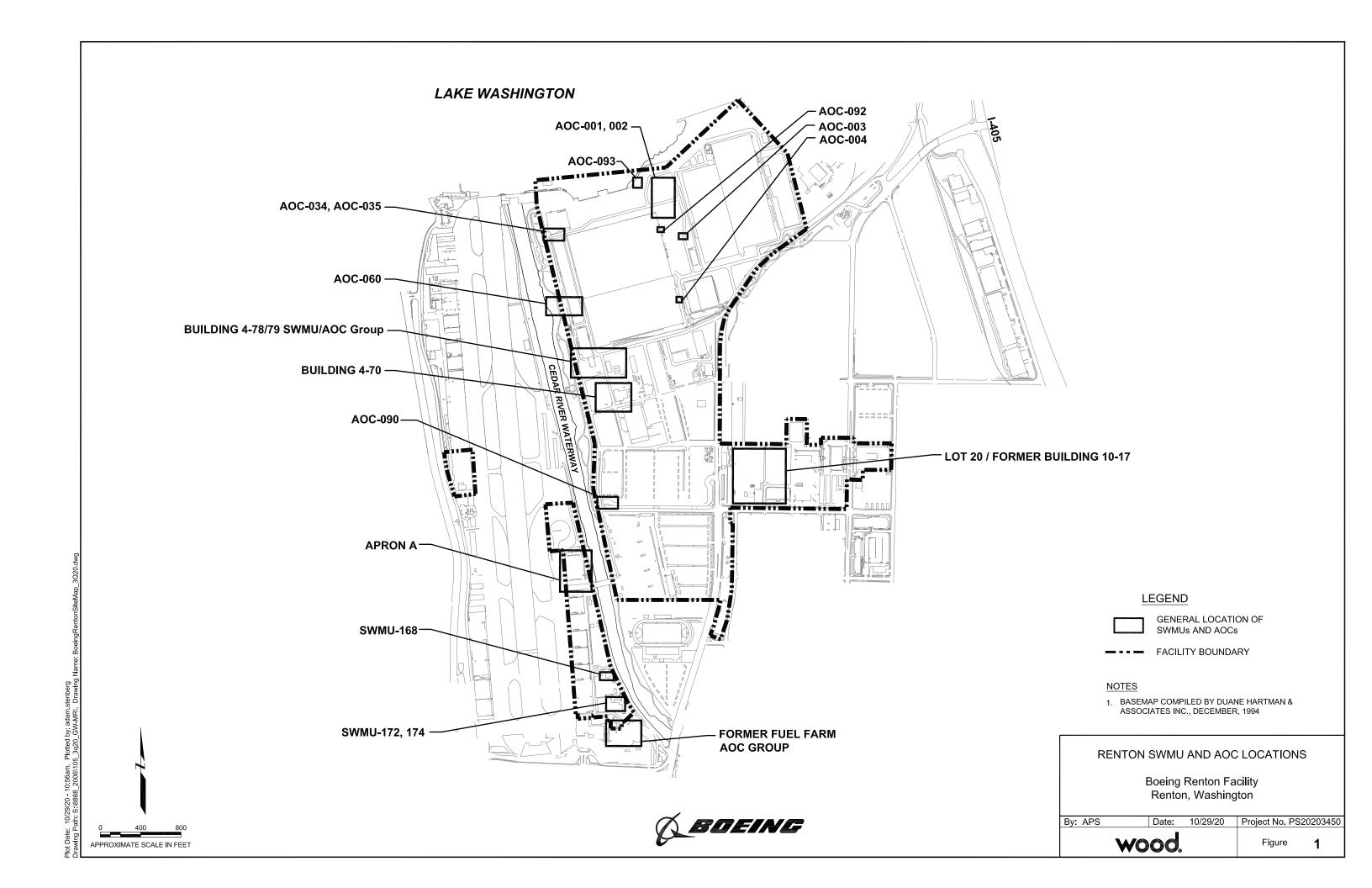


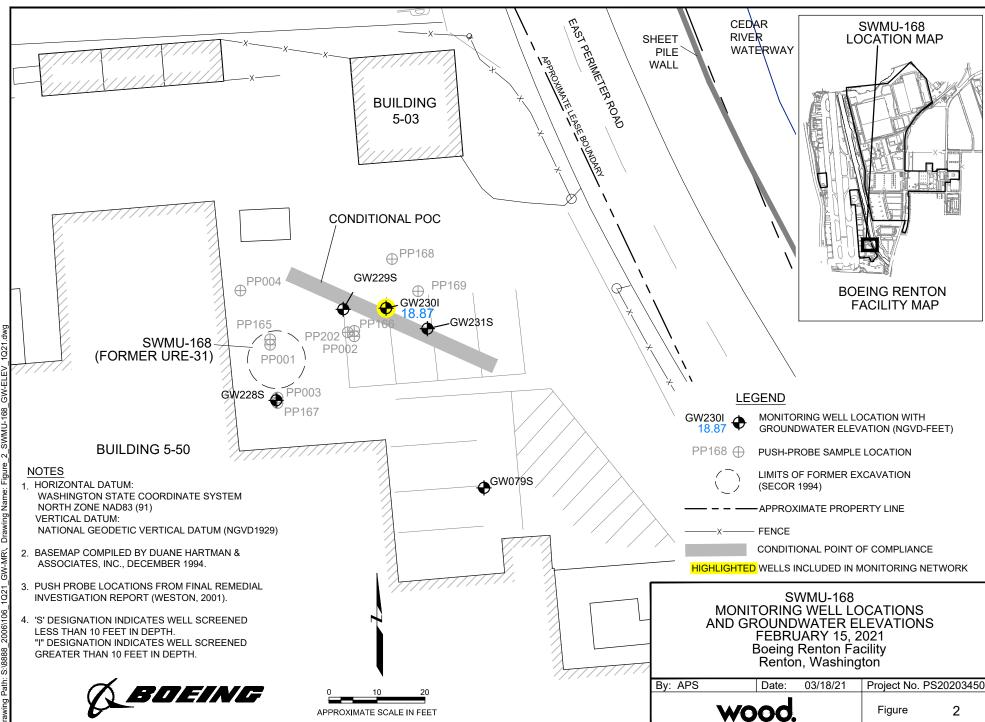
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wood.

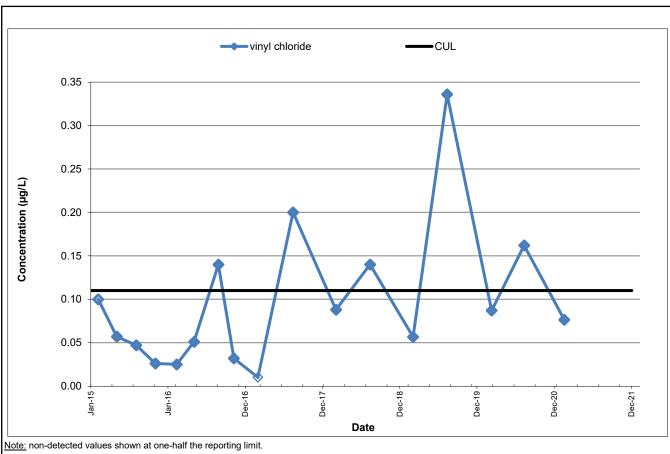
# **Figures**





Plot Date: 03/18/21 - 11:32am, Plotted by: adam.stenberg Drawing Path: S:8888 2006/106 1021 GW-MR\ Drawing Name: Figure 2 SWMI





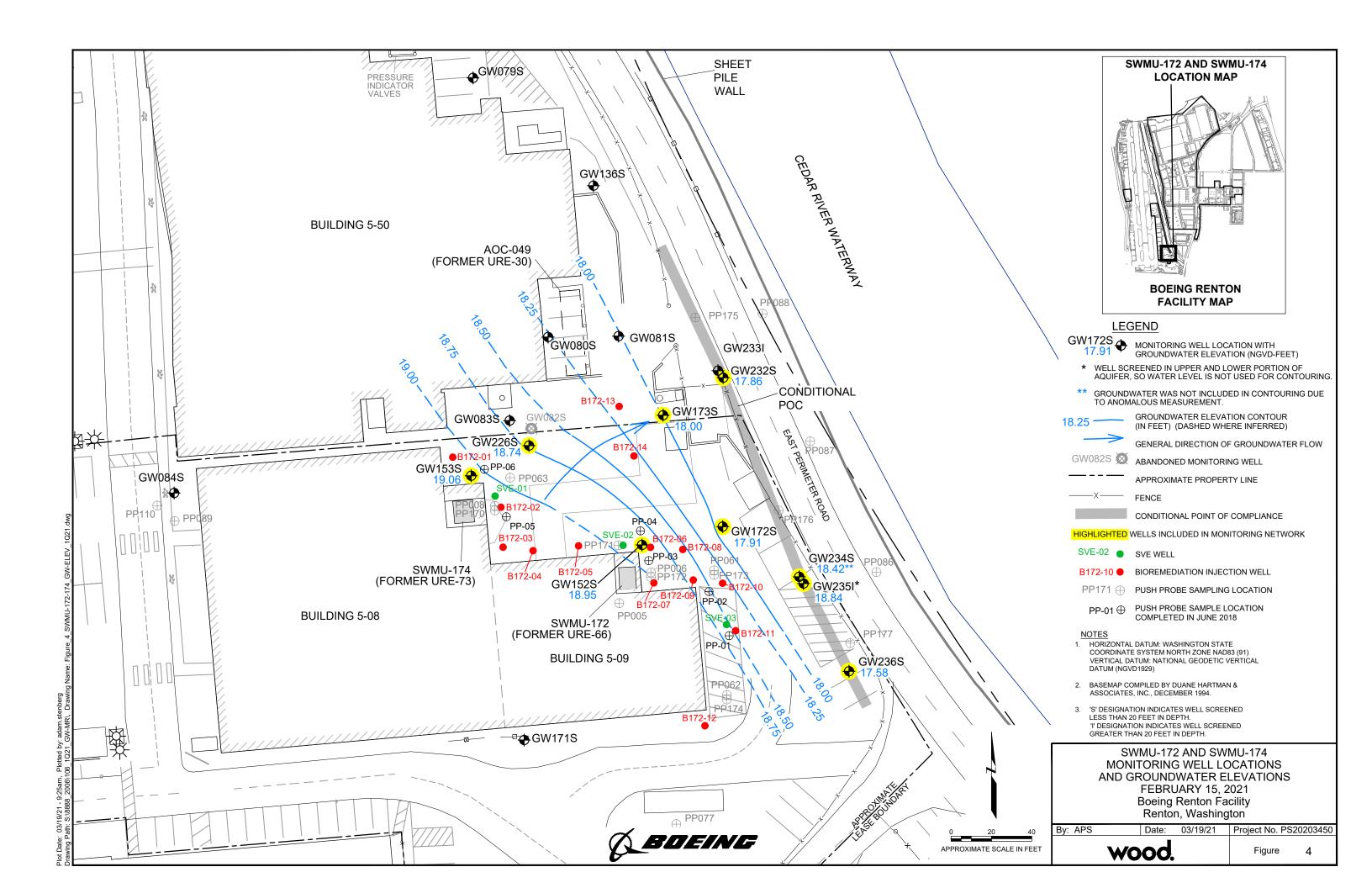
**CPOC AREA WELL GW230I** 

wood.

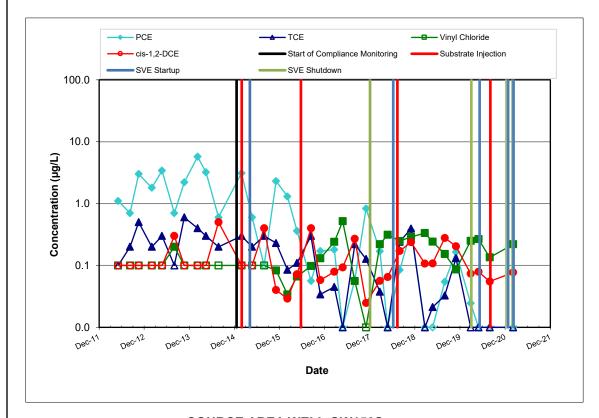
SWMU-168 HISTORICAL VC TREND PLOT FOR CPOC WELL GW230I **Boeing Renton Facility** Renton, Washington

Project No. PS20203450

Figure **3** 



#### **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.

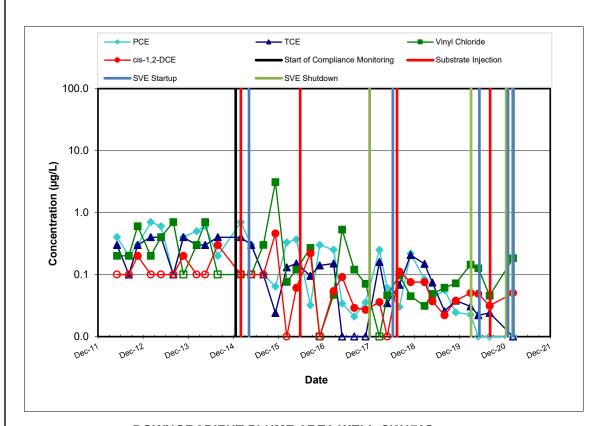


SWMU-172 AND SWMU-174 TREND PLOTS FOR SOURCE AREA WELLS GW152S AND GW153S Boeing Renton Facility Renton, Washington Project No. PS20203450

Figure 5

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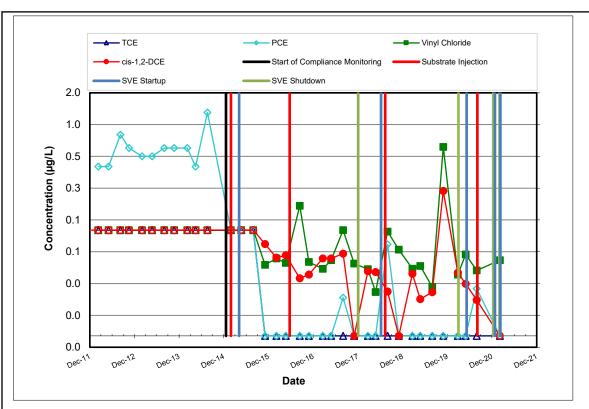
#### **DOWNGRADIENT PLUME AREA WELL GW172S**



## **DOWNGRADIENT PLUME AREA WELL GW173S**

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

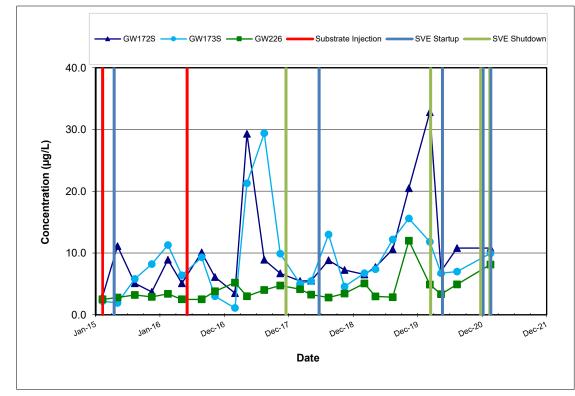




Note: non-detected values shown at one-half the reporting limit and graphed with an open symbol.

# **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

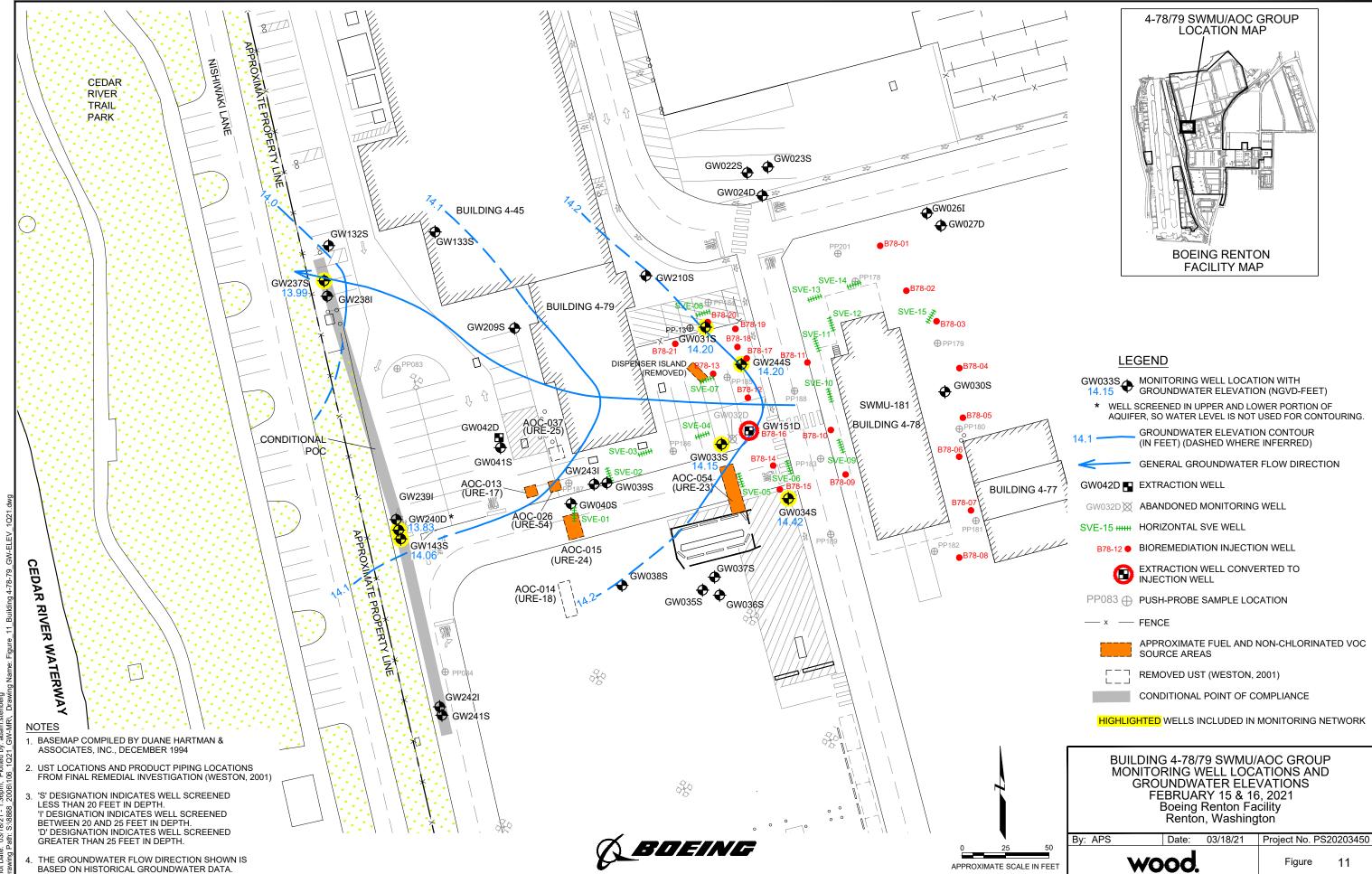
Project No. PS20203450

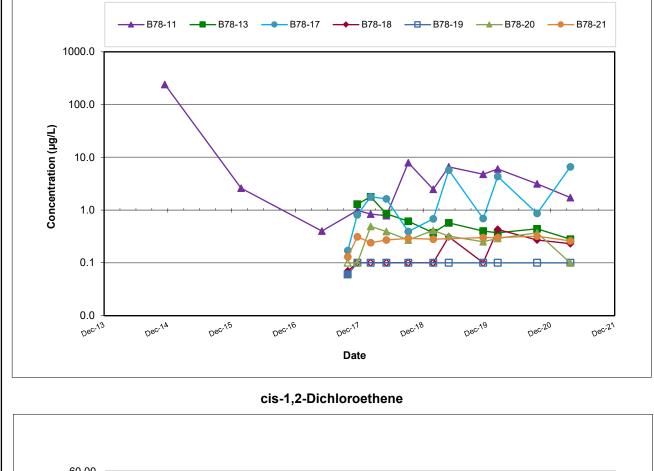
> Figure 8

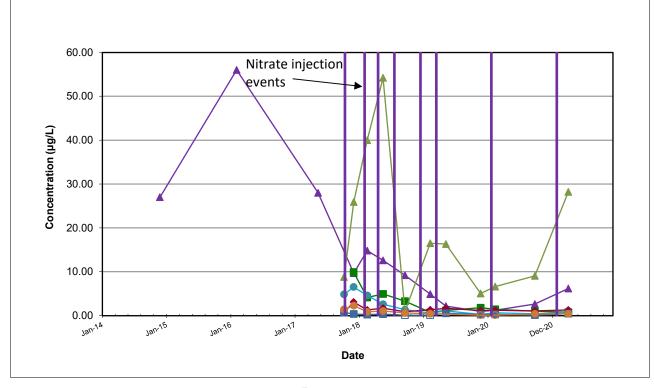
Renton, Washington

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Renton, Washington







#### Benzene

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 CIS-1,2-DICHLOROETHENE AND BENZENE IN INJECTION WELLS Boeing Renton Facility Renton, Washington

Project No. PS20203450

> Figure 12

# Vinyl Chloride

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.

0.00

Jan-15

1000.0

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

Jan-19

Jan-20

Dec-20

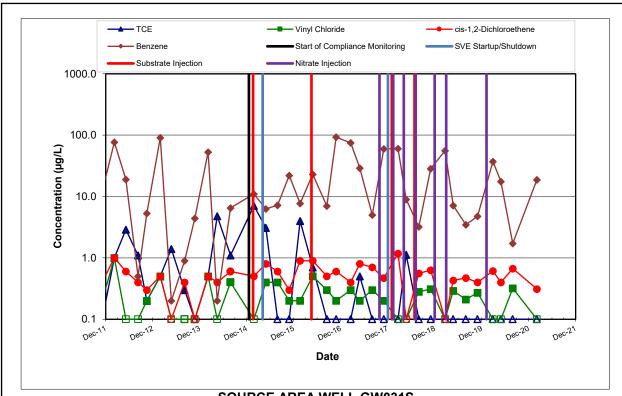
Project No. PS20203450

Dec-20

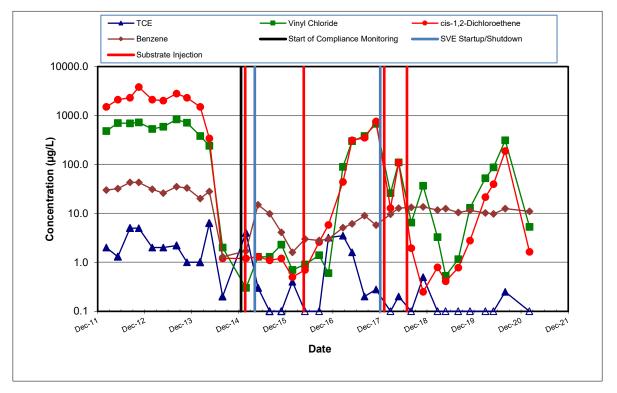
Figure 13

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#### **SOURCE AREA WELL GW031S**



#### **SOURCE AREA WELL GW033S**

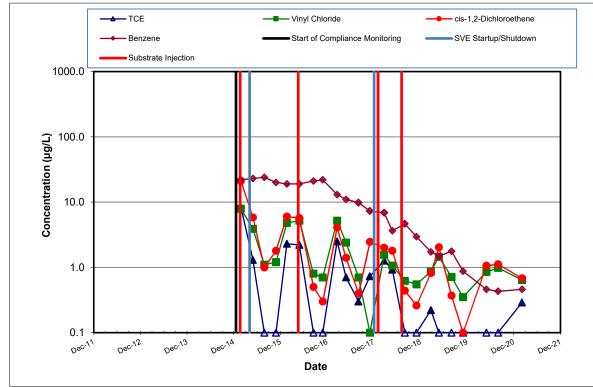
Note: non-detected values shown at one-half the reporting limit and graphed with an open symbol.



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

Project No. PS20203450

> Figure 14



#### **SOURCE AREA WELL GW244S**

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

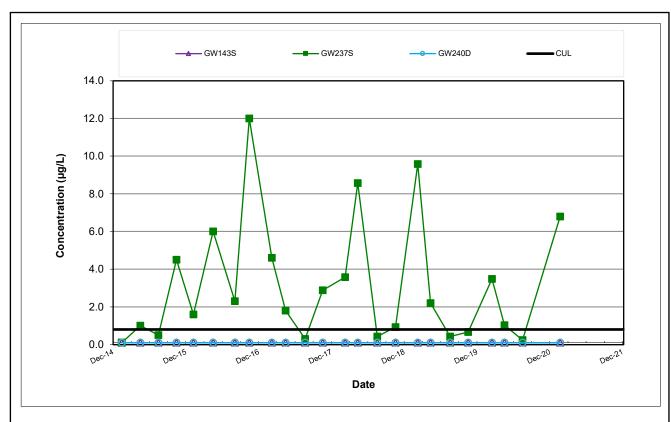


BLDG 4-78/79 SWMU/AOC GROUP TREND PLOTS FOR SOURCE AREA WELLS GW034S AND GW244S Boeing Renton Facility Project No. PS20203450

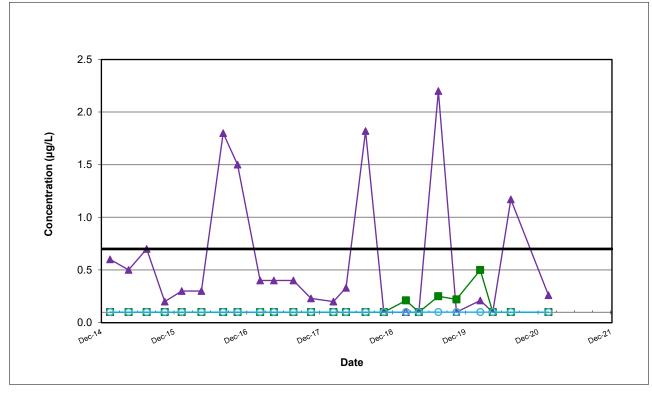
> Figure 15

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#### Benzene



cis-1,2-Dichloroethene

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

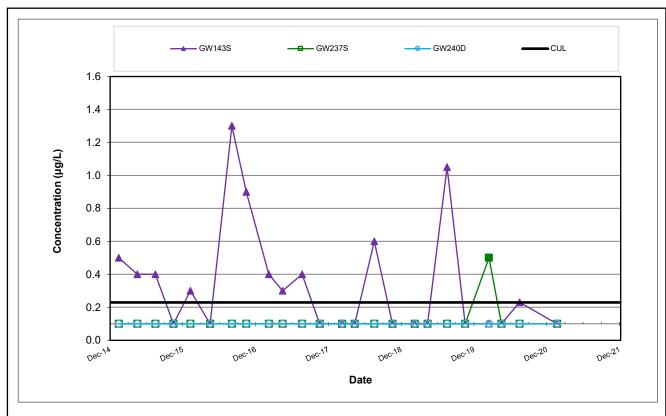


BUILDING 4-78/79 SWMU/AOC GROUP TREND PLOTS FOR BENZENE
AND CIS-1,2-DICHLOROETHENE IN CPOC AREA WELLS
Boeing Renton Facility
Renton, Washington

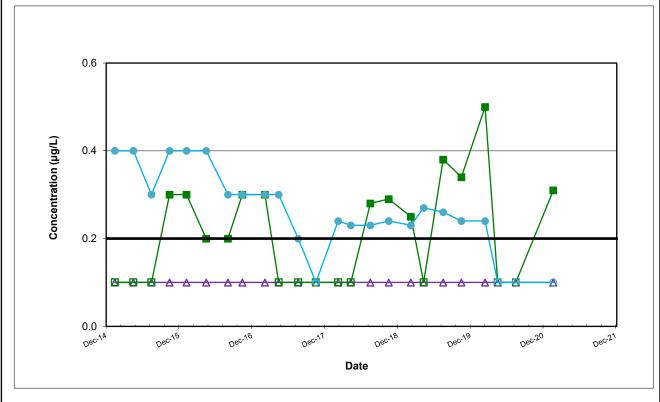
Project No. PS20203450

> Figure 16





#### **Trichloroethene**



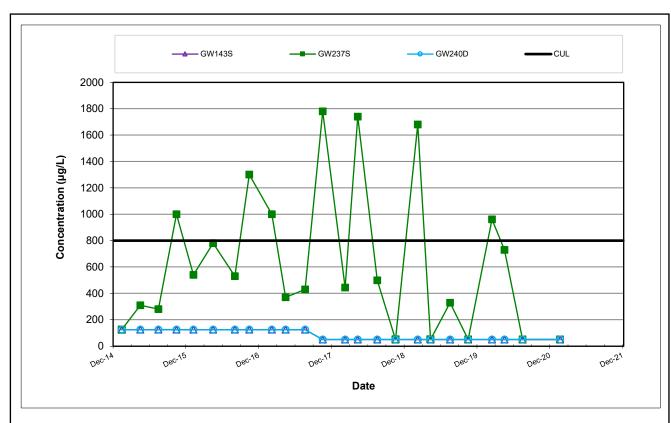
#### **Vinyl Chloride**

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 CPOC AREA WELLS Boeing Renton Facility Renton, Washington

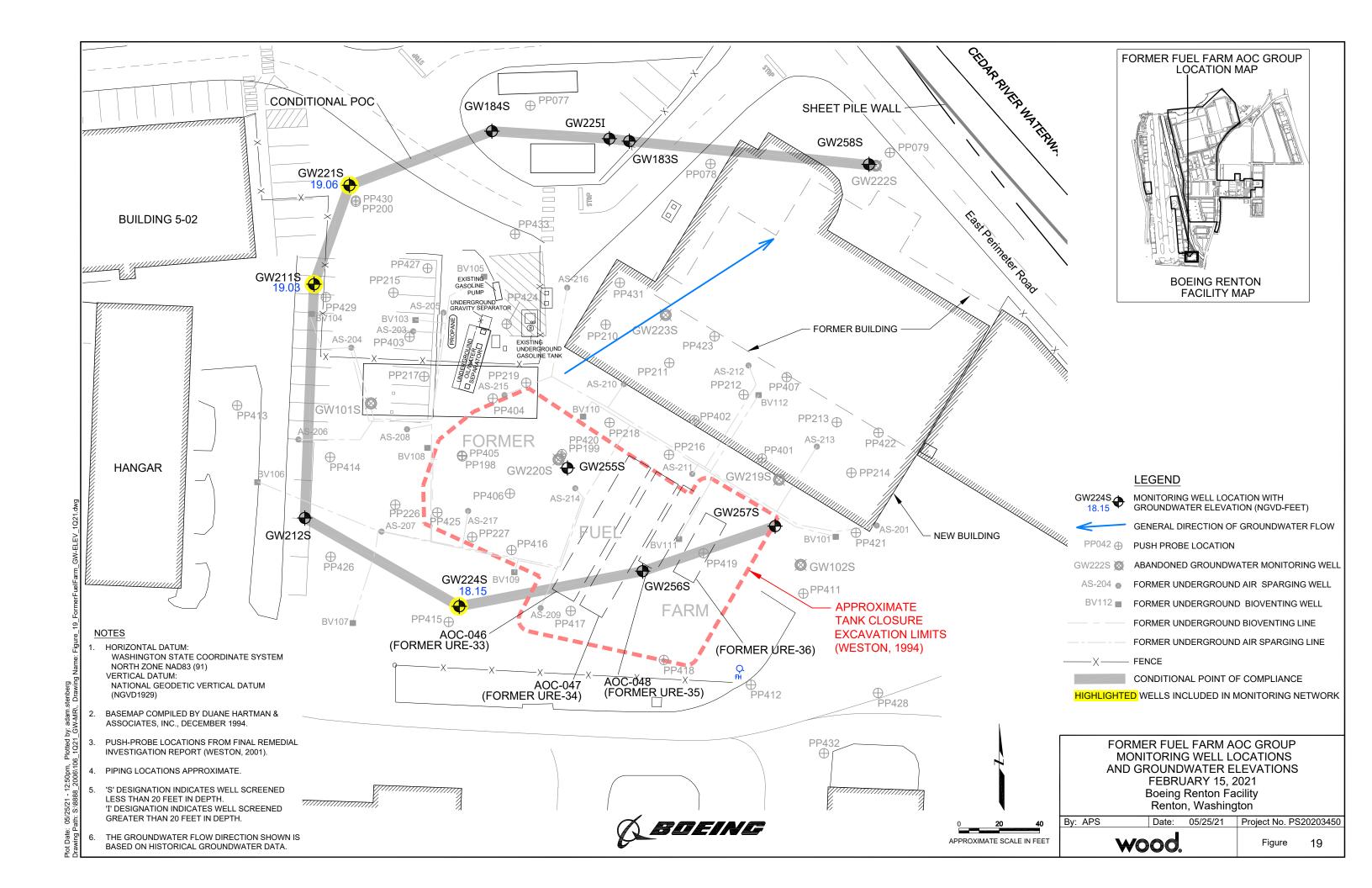


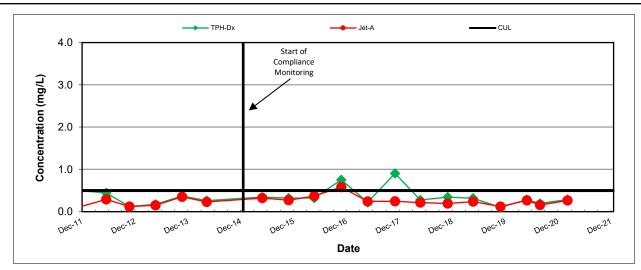


**TPH as Gasoline** 

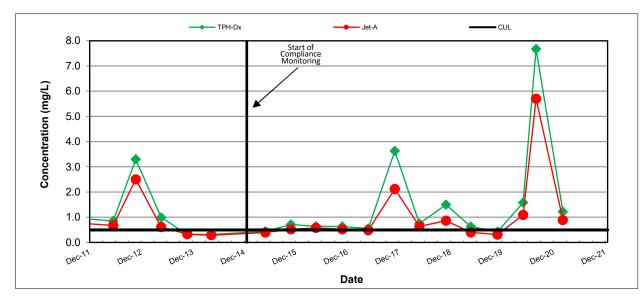
Note: non-detected values shown at one-half the reporting limit and graphed with an open symbol.



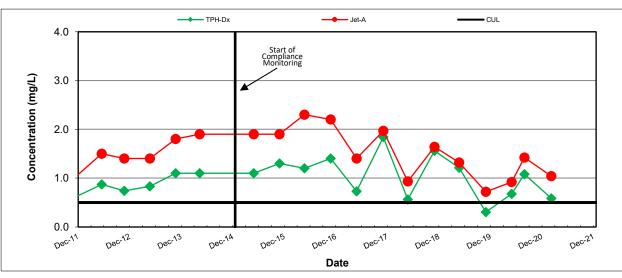




#### **CPOC WELL GW211S**

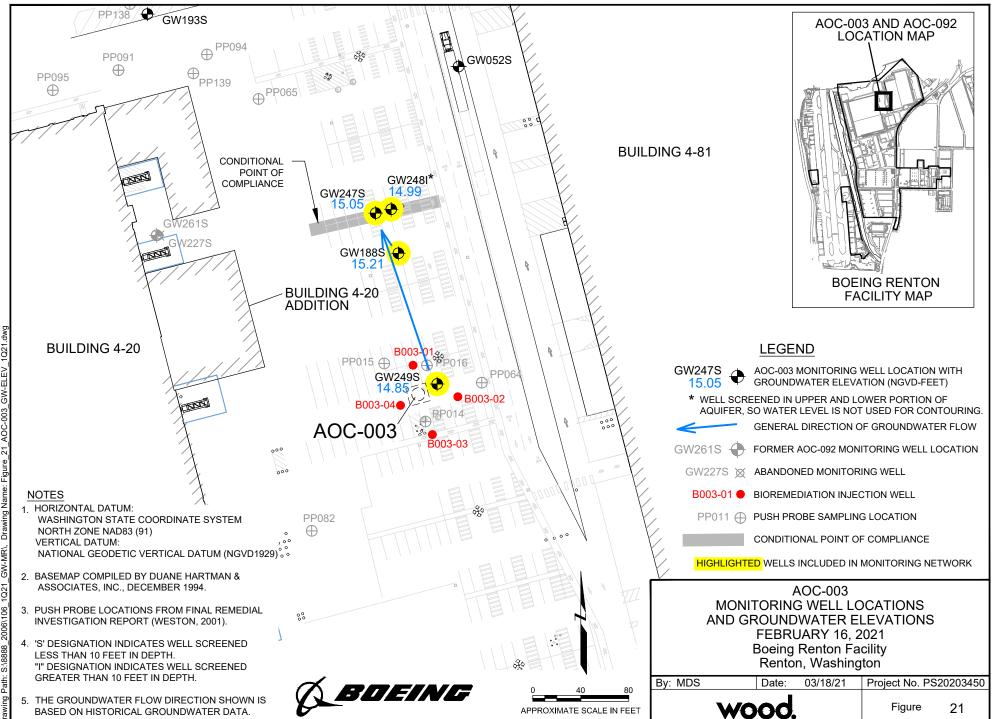


#### **CPOC WELL GW221S**

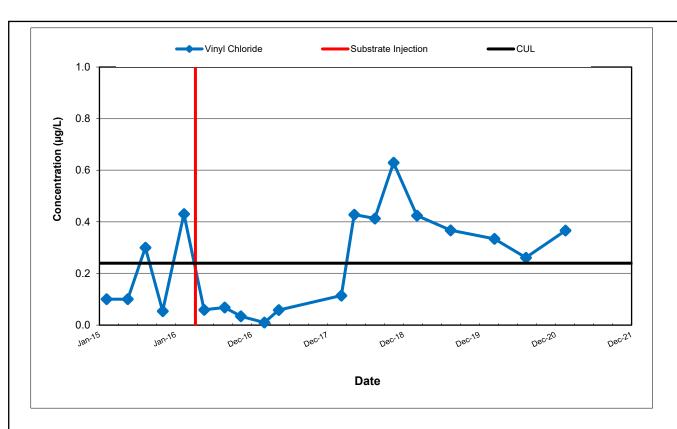


**CPOC WELL GW224S** 

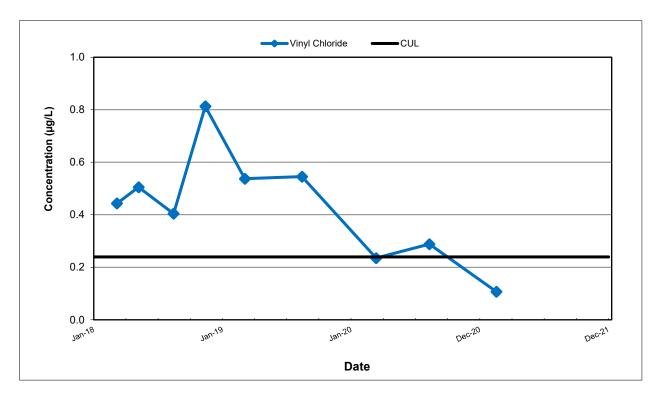




Plot Date: 03/18/21 - 2:03pm, Plotted by: adam.stenberg
Drawing Dath: S-\8888 2006\106 1021 GW-MR\ Drawing Name: Eigure 21 AOC-003 GW-ELEV 102



#### **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

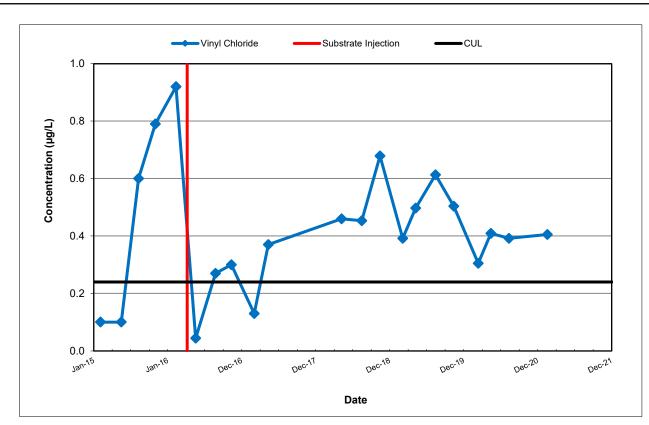


AOC-003 HISTORICAL TREND PLOTS FOR SOURCE AREA WELL GW249S
AND DOWNGRADIENT PLUME AREA WELL GW188S
Boeing Renton Facility
Renton, Washington

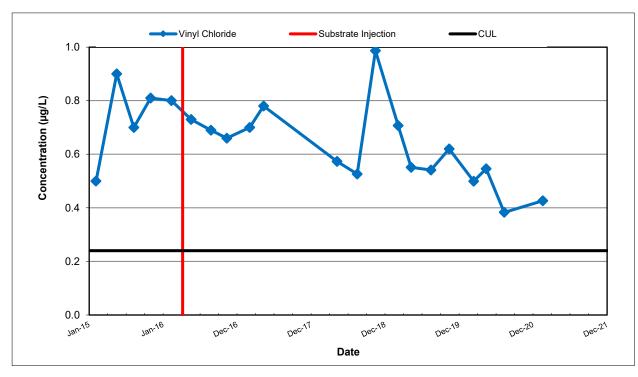
Project No. PS20203450

> Figure 22





#### **CPOC WELL GW247S**



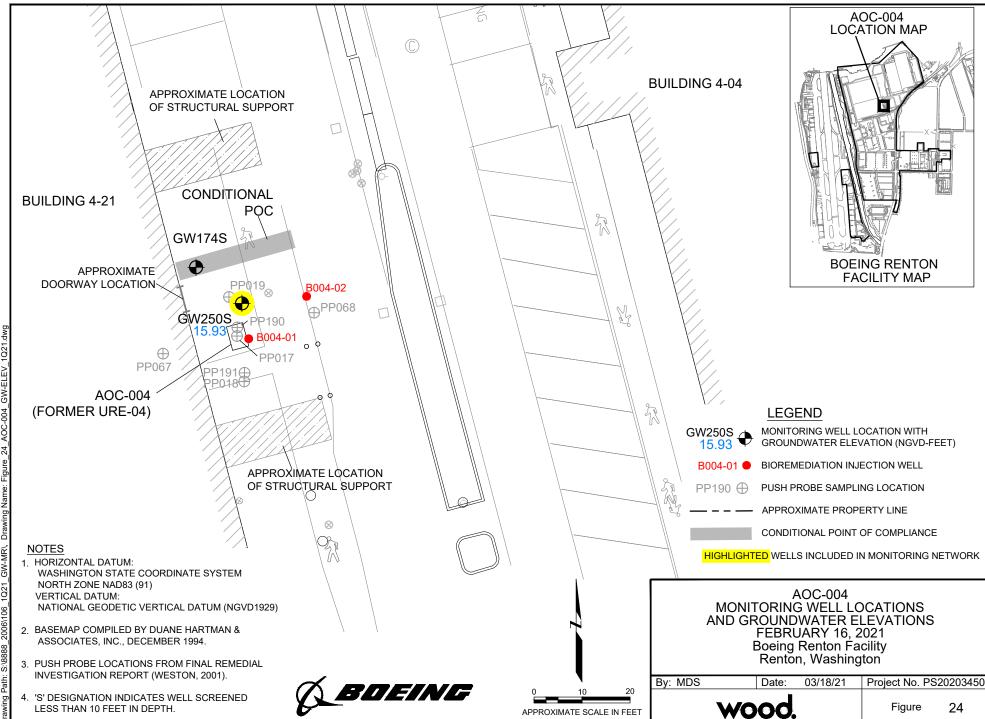
#### **CPOC WELL GW248I**

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

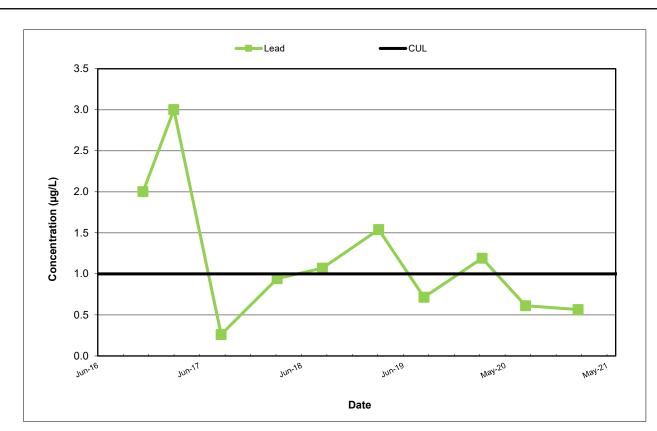


AOC-003 HISTORICAL TREND PLOTS FOR CPOC WELLS GW247S AND GW248I Boeing Renton Facility Renton, Washington Project No. PS20203450

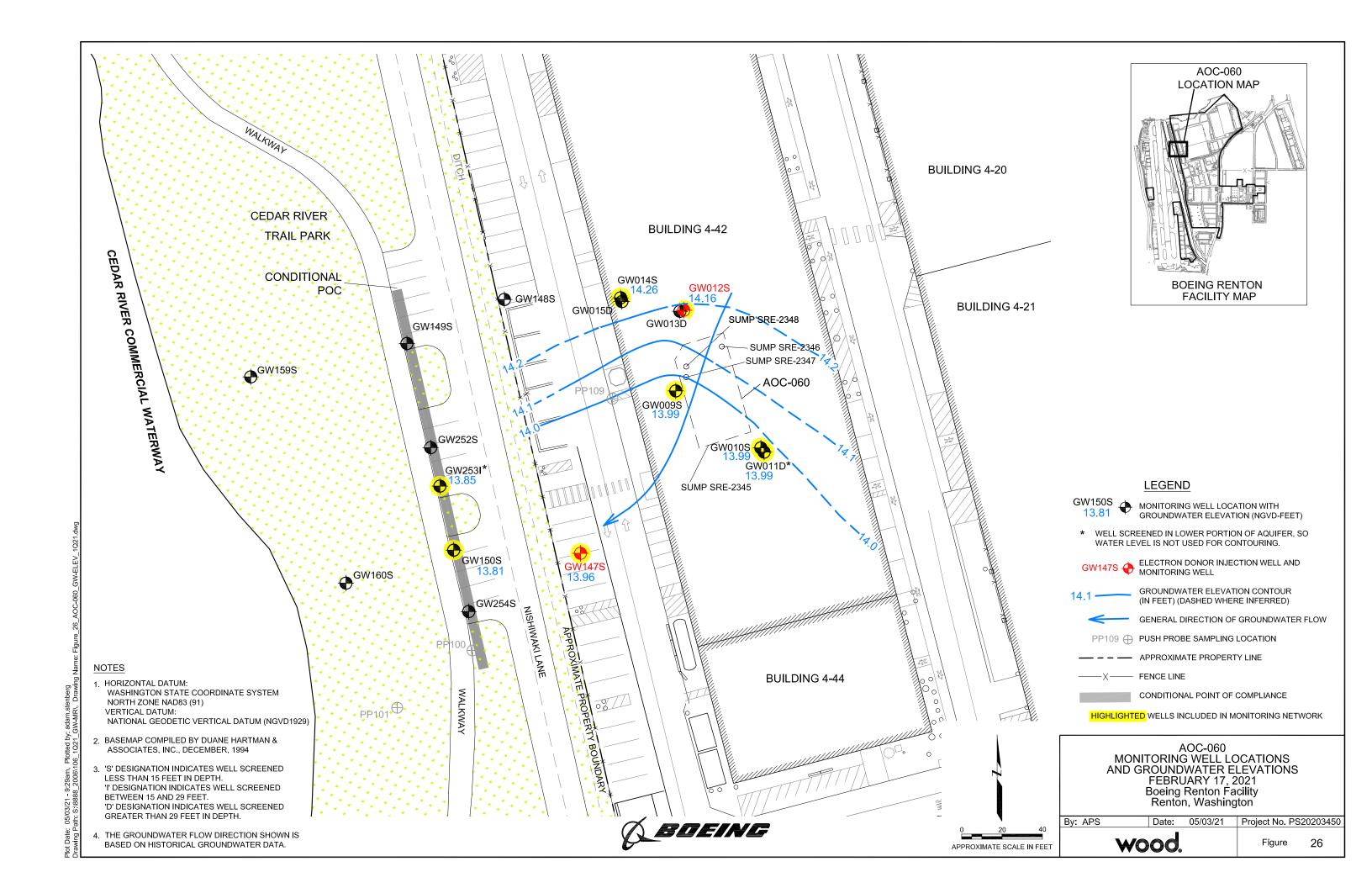
Figure 23

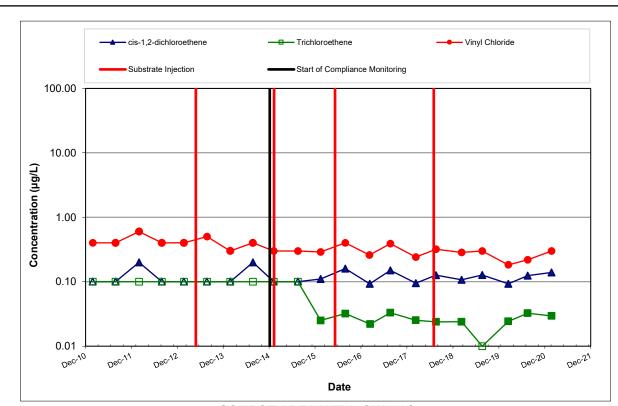


Plot Date: 03/18/21 - 2:09pm, Plotted by: adam.stenberg

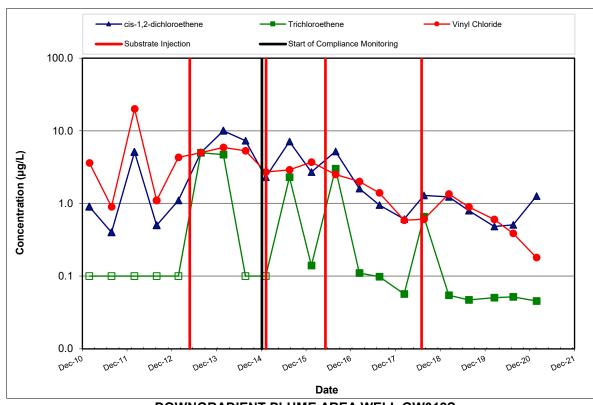


**SOURCE AREA WELL GW250S** 





#### **SOURCE AREA WELL GW009S**



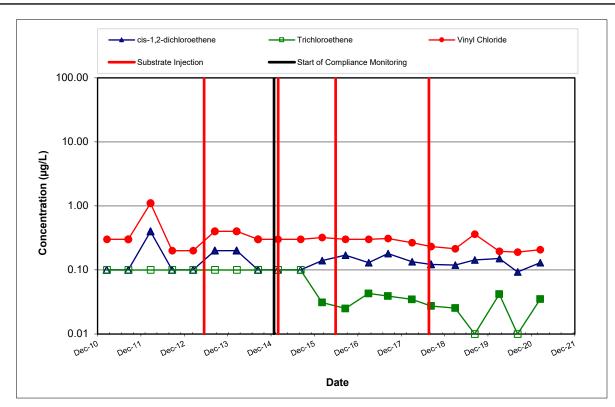
**DOWNGRADIENT PLUME AREA WELL GW012S** 

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

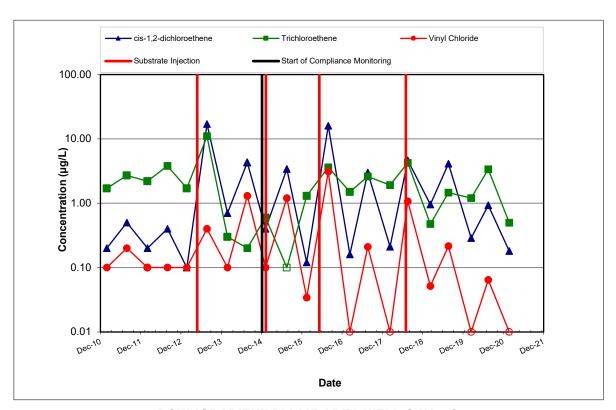


AOC-060 TREND PLOTS FOR SOURCE AREA WELL GW009S AND DOWNGRADIENT PLUME AREA WELL GW012S Boeing Renton Facility Renton, Washington Project No. PS20203450

> Figure 27



#### **DOWNGRADIENT PLUME AREA WELL GW014S**



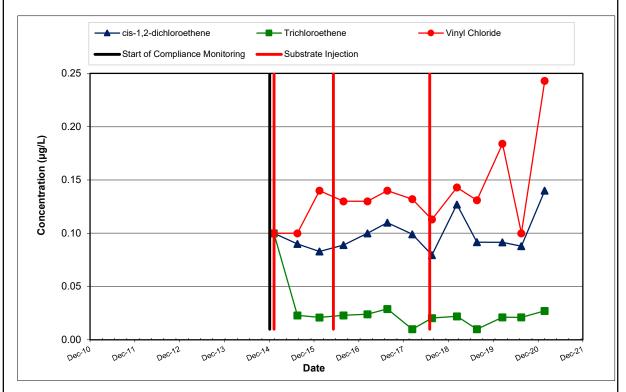
#### **DOWNGRADIENT PLUME AREA WELL GW147S**

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



AOC-060 TREND PLOTS FOR DOWNGRADIENT PLUME AREA WELLS GW014S AND GW147S Boeing Renton Facility Renton, Washington

#### **CPOC AREA WELL GW150S**



#### **CPOC AREA WELL GW253I**

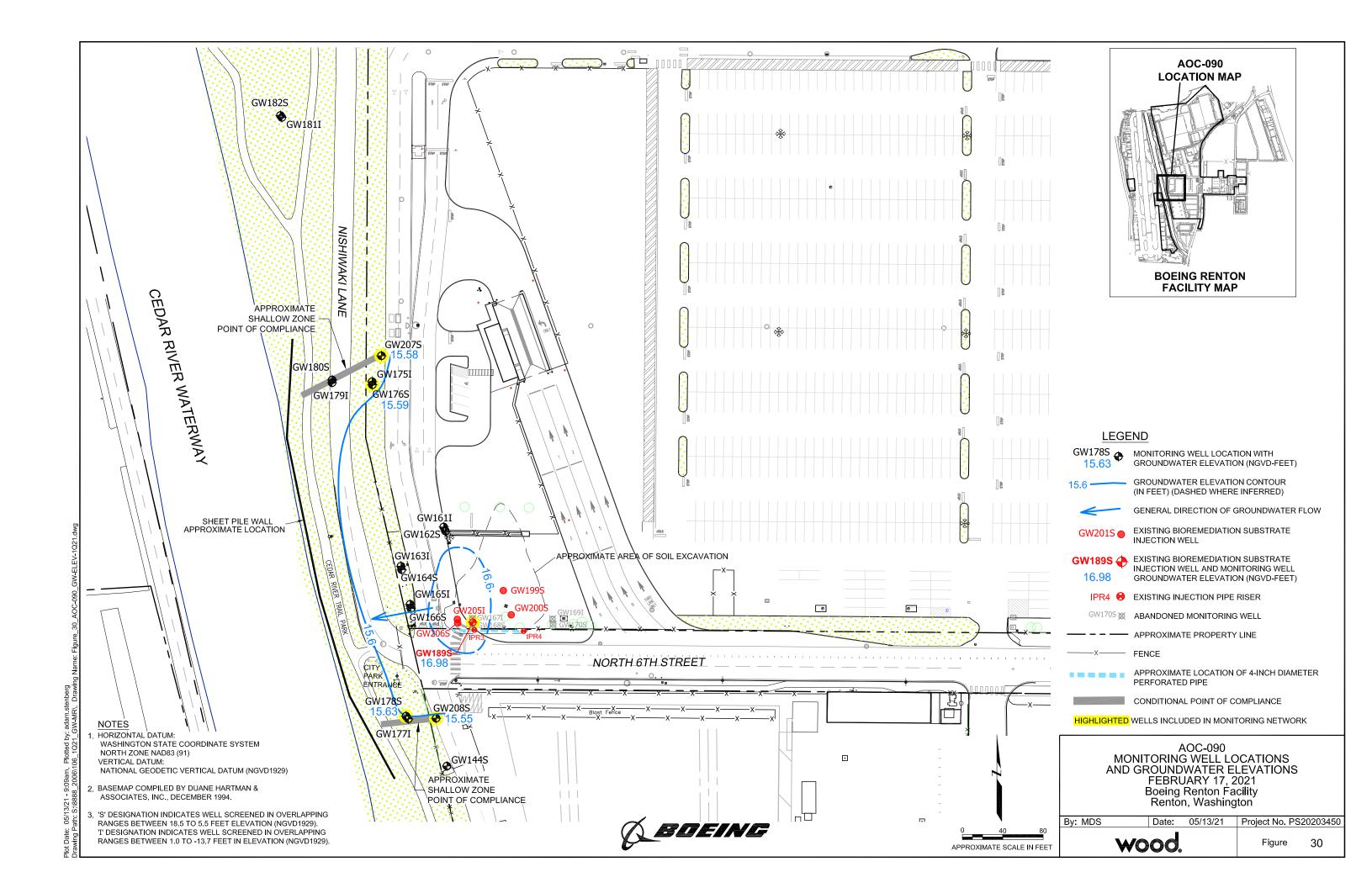
Note: non-detected values shown at one-half the reporting limit and graphed with an open symbol.

wood.

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

Figure 29

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── Vinyl Chloride

TCE

wood.

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

Project No. PS2Ó203450

Figure 31

# wood.

### **Tables**

### TABLE 1: SWMU-168 GROUNDWATER ELEVATION DATA FEBRUARY 15, 2021

Boeing Renton Facility, Renton, Washington

Well ID <sup>1</sup>	Screen Interval Depth (feet bgs)	TOC Elevation (feet) <sup>2</sup>	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) <sup>2</sup>
GW230I	4 to 14	24.86	5.99	18.87

#### 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 <sup>1</sup> FEBRUARY 15, 2021

Boeing Renton Facility, Renton, Washington

Parameter	Well ID <sup>2</sup> CPOC Area GW230I
Temperature (degrees C)	7.6
Specific Conductivity (µS/cm)	220.4
Dissolved Oxygen (mg/L)	0.57
pH (standard units)	6.25
Oxidation/Reduction Potential (mV)	-0.9

#### 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 FEBRUARY 15, 2021

Boeing Renton Facility, Renton, Washington

Analyte		Cleanup Level <sup>2</sup>	Well ID <sup>1</sup> CPOC Area GW230I
<b>Volatile Organic Com</b>	pounds (μg/L)		
Vinyl Chloride		0.11	0.0764

#### Notes:

- 1. I = intermediate well.
- 2. Cleanup levels obtained from Table 2 of the Cleanup Action Plan.

#### Abbreviations:

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

### TABLE 4: SWMU-172 AND SWMU-174 GROUP GROUNDWATER ELEVATION DATA FEBRUARY 15, 2021

Boeing Renton Facility, Renton, Washington

Well ID <sup>1</sup>	Screen Interval Depth (feet bgs)	TOC Elevation (feet) <sup>3</sup>	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) <sup>3</sup>
GW152S	5 to 20 <sup>2</sup>	26.98	8.03	18.95
GW153S	5 to 20 <sup>2</sup>	27.47	8.41	19.06
GW172S	8 to 18 <sup>2</sup>	26.44	8.53	17.91
GW173S	8 to 18 <sup>2</sup>	26.51	8.51	18.00
GW226S	5 to 20 <sup>2</sup>	26.86	8.12	18.74
GW232S	4 to 14	24.45	6.59	17.86
GW234S	3 to 13	24.95	6.53	18.42
GW235I	15 to 25	24.9	6.06	18.84
GW236S	5 to 15	24.36	6.78	17.58

#### 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 <sup>1</sup> FEBRUARY 15, 2021

Boeing Renton Facility, Renton, Washington

		Well ID <sup>2</sup>										
		Source Area						CPOC Area				
		GW152S										
Parameter	GW152S	(field dup.)	GW153S	GW172S	GW173S	GW226S	GW232S	GW234S	GW235I	GW236S		
Temperature (degrees C)	7.1	NA	9.6	7.0	8.0	13.1	8.6	4.3	6.6	3.9		
Specific Conductivity (µS/cm)	151.5	NA	194.8	278.8	228.6	228.7	342.2	104.6	133.7	209.7		
Dissolved Oxygen (mg/L)	4.62	NA	0.73	1.11	0.71	0.44	1.31	6.37	1.29	2.80		
pH (standard units)	6.03	NA	6.52	6.83	6.46	6.58	6.37	6.51	6.62	6.24		
Oxidation/Reduction Potential (mV)	21.3	NA	-92.1	-92.9	-79.2	-101.7	-85.5	-1.1	-46.4	36.4		
Total Organic Carbon (mg/L)	9.10 J	4.94 J	12.78	6.16	5.08	7.09	7.78	12.97	0.96	2.08		

#### 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**

 $\mu$ 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

NA = not analyzed

SWMU = solid waste management unit

### TABLE 6: SWMU-172 AND SWMU-174 GROUP CONCENTRATIONS OF CONSTITUENTS OF CONCERN <sup>1,2</sup> FEBRUARY 15, 2021

Boeing Renton Facility, Renton, Washington

				Well ID <sup>3</sup>								
				Source Area Downgi			gradient Plume Area			CPOC Area		
		Cleanup		GW152S								
Analyte		Level <sup>4</sup>	GW152S	(field dup.)	GW153S	GW172S	GW173S	GW226S	GW232S	GW234S	GW235I	GW236S
Volatile Organic Comp	Volatile Organic Compounds (μg/L)											
cis -1,2-Dichloroethe	ne	0.03	0.144	0.116	0.077	0.108	0.0505	0.020 U	0.219	0.020 U	0.128	0.020 U
Tetrachloroethene		0.02	0.081	0.0666	0.020 U	0.0624	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	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Vinyl Chloride		0.11	0.0378	0.0409	0.220	0.219	0.183	0.0519	0.263	0.020 U	0.020 U	0.020 U
Total Metals (µg/L)	Total Metals (µg/L)											
Arsenic		1.0	7.67	6.90	32.8	10.8	9.94	8.12	4.78	6.29	0.200 U	2.89
Copper		3.5	17.2 J	12.6 J	33.9	3.89	3.11	3.92	2.09	11.4	0.727	9.70
Lead		1.0	12.5 J	9.16 J	5.80	1.98	0.850	0.513	0.318	4.13	0.174	6.31

#### Notes:

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

#### Abbreviations:

 $\mu$ g/L = micrograms per liter

CPOC = conditional point of compliance

field dup. = field duplicate

SWMU = solid waste management unit

### TABLE 7: BUILDING 4-78/79 SWMU/AOC GROUP GROUNDWATER ELEVATION DATA FEBRUARY 15 & 16, 2021

Boeing Renton Facility, Renton, Washington

Well ID <sup>1</sup>	Screen Interval Depth (feet bgs)	TOC Elevation (feet) <sup>2</sup>	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) <sup>2</sup>
GW031S	5 to 25	19.44	5.24	14.20
GW033S	5 to 25	19.49	5.34	14.15
GW034S	5 to 25	19.65	5.46	14.42
GW143S	10 to 15	19.81	5.75	14.06
GW237S	5 to 15	18.85	4.86	13.99
GW240D	22 to 27	19.81	5.98	13.83
GW244S	5 to 15	19.53	5.33	14.20

#### 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 <sup>1</sup> FEBRUARY 15 & 16, 2021

Boeing Renton Facility, Renton, Washington

		Well ID <sup>2</sup>									
			Source Area				CPOC Area				
		GW031S									
Parameter	GW031S	(field dup.)	GW033S	GW034S	GW244S	GW143S	GW237S	GW240D			
Temperature (degrees C)	9.3	NA	10.2	8.4	9.4	12.1	9.0	10.4			
Specific Conductivity (µS/cm)	376.5	NA	373.3	266.6	380.9	248.9	140.8	215.6			
Dissolved Oxygen (mg/L)	1.01	NA	0.57	0.39	1.15	0.38	0.91	0.45			
pH (standard units)	6.45	NA	6.14	6.34	6.15	6.41	6.39	6.4			
Oxidation/Reduction Potential (mV)	-91.8	NA	-2.8	-21.5	-68.0	-89.9	8.7	-83.1			
Total Organic Carbon (mg/L)	13.52	13.78	34.55	8.67	25.58	9.73	10.97	5.79			

#### **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**

 $\mu$ S/cm = microsiemens per centimeter

AOC = area of concern

CPOC = conditional point of compliance

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

mV = millivolts

NA = not analyzed

SWMU = solid waste management unit

#### TABLE 9: BUILDING 4-78/79 SWMU/AOC GROUP CONCENTRATIONS OF CONSTITUENTS OF CONCERN 1, 2 FEBRUARY 15 & 16, 2021

Boeing Renton Facility, Renton, Washington

			Source Area				CPOC Area			
	Cleanup		GW031S							
Analyte	Level <sup>4</sup>	GW031S	(field dup.)	GW033S	GW034S	GW244S	GW143S	GW237S	GW240D	
<b>Volatile Organic Compo</b>	Volatile Organic Compounds (µg/L)									
Benzene	0.80	18.8 J	18.8 J	11.0	0.20 U	0.46	0.20 U	6.79 J	0.20 U	
cis -1,2-Dichloroethene	e 0.70	0.31 J	0.30 J	1.64	0.20 U	0.68	0.26	0.20 UJ	0.20 U	
Trichloroethene	0.23	0.20 UJ	0.20 UJ	0.20 U	0.20 U	0.29	0.20 U	0.20 UJ	0.20 U	
Vinyl Chloride	0.20	0.20 UJ	0.20 UJ	5.31	0.25	0.64	0.20 U	0.31 J	0.20 U	
<b>Total Petroleum Hydroc</b>	Total Petroleum Hydrocarbons (μg/L)									
TPH-G (C7-C12)	800	2,340	2,380	323	100 U	100 U	100 U	100 UJ	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:

μg/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 FEBRUARY 15, 2021

Boeing Renton Facility, Renton, Washington

Well ID <sup>1</sup>	Screen Interval Depth (feet bgs)	TOC Elevation (feet) <sup>2</sup>	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) <sup>2</sup>
GW211S	4.8 to 14.7	27.77	8.74	19.03
GW221S	5 to 15	27.93	8.87	19.06
GW224S	5 to 15	27.98	9.83	18.15

#### **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 <sup>1</sup> FEBRUARY 15, 2021

Boeing Renton Facility, Renton, Washington

		Well ID <sup>2</sup>							
		CPOC Area							
				GW224S					
Parameter	GW211S	GW221S	GW224S	(field dup.)					
Temperature (degrees C)	6.2	6.8	8.4	NA					
Specific Conductivity (µS/cm)	208.9	172.2	125.8	NA					
Dissolved Oxygen (mg/L)	0.34	0.78	0.46	NA					
pH (standard units)	6.30	6.18	6.03	NA					
Oxidation/Reduction Potential (mV)	-30.8	3.9	0.9	NA					

#### **Notes**

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

#### **Abbreviations**

µS/cm = microsiemens per centimeter CPOC = conditional point of compliance degrees C = degrees Celsius field dup. = field duplicate mg/L = milligrams per liter mV = millivolts NA = not analyzed

## TABLE 12: FORMER FUEL FARM CONCENTRATIONS OF CONSTITUENTS OF CONCERN <sup>1, 2</sup> FEBRUARY 15, 2021

Boeing Renton Facility, Renton, Washington

		Well ID <sup>3</sup>							
			СРОС	Area					
	Cleanup	GW224S							
Analyte	Level <sup>4</sup>	GW211S	(field dup.)						
<b>Total Petroleum Hydrocarbo</b>	ns (mg/L)								
TPH-D (C12-C24)	0.5	0.284	1.22	0.584	0.609				
TPH-O (C24-C38)	NC	0.225 U	0.215 U	0.200 U	0.217 U				
Jet A (C10-C18)	0.5	0.262	0.889	1.04	1.05				

#### Notes

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

#### **Abbreviations**

CPOC = conditional point of compliance

field dup. = field duplicate

mg/L = milligrams per liter

NC = No cleanup level established

TPH-D = total petroleum hydrocarbons as diesel

TPH-O = total petroleum hydrocarbons as motor oil

### TABLE 13: AOC-003 GROUNDWATER ELEVATION DATA FEBRUARY 16, 2021

Boeing Renton Facility, Renton, Washington

Well ID <sup>1</sup>	Screen Interval Depth (feet bgs)	TOC Elevation (feet) <sup>2</sup>	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) <sup>2</sup>
GW188S	3.5 to 13.5	18.78	3.57	15.21
GW247S	4 to 14	18.91	3.86	15.05
GW248I	10 to 20	18.78	3.79	14.99
GW249S	4 to 14	18.85	3.69	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

### TABLE 14: AOC-003 PRIMARY GEOCHEMICAL INDICATORS <sup>1</sup> FEBRUARY 16, 2021

Boeing Renton Facility, Renton, Washington

	Well ID <sup>2</sup>			
		Downgradient		
	Source Area	Plume Area	CPOC Area	
Parameter	RGW249S	RGW188S	GW247S	GW248I
Temperature (degrees C)	9.4	8.5	8.0	8.3
Specific Conductivity (µS/cm)	339.3	285.9	313.2	375.6
Dissolved Oxygen (mg/L)	0.47	0.63	0.67	0.53
pH (standard units)	6.24	6.31	6.34	6.33
Oxidation/Reduction Potential (mV)	-12.1	-7.5	-15.2	-13.7
Total Organic Carbon (mg/L)	19.48	5.83	9.82	12.37

#### **Notes**

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

#### Abbreviations

µS/cm = microsiemens per centimeter AOC = area of concern CPOC = conditional point of compliance degrees C = degrees Celsius mg/L = milligrams per liter

mV = millivolts

### TABLE 15: AOC-003 CONCENTRATIONS OF CONSTITUENTS OF CONCERN <sup>1</sup> FEBRUARY 16, 2021

Boeing Renton Facility, Renton, Washington

		Well ID <sup>2</sup>			
		Source Area	Downgradient		
	Cleanup	Source Area	Plume Area	СРОС	Area
Analyte	Level <sup>3</sup>	GW249S	GW188S	GW247S	GW248I
Volatile Organic Compounds (µg/L)					
Vinyl Chloride	0.24	0.366	0.107	0.405	0.426

#### 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:

 $\mu$ g/L = micrograms per liter

AOC = area of concern

CPOC = conditional point of compliance

### TABLE 16: AOC-004 GROUNDWATER ELEVATION DATA FEBRUARY 16, 2021

Boeing Renton Facility, Renton, Washington

Well ID <sup>1</sup>	Screen Interval Depth (feet bgs)	TOC Elevation (feet) <sup>2</sup>	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) <sup>2</sup>
GW250S	4 to 14	19.31	3.38	15.93

#### 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 <sup>1</sup> FEBRUARY 16, 2021

Boeing Renton Facility, Renton, Washington

	Well ID <sup>2</sup>
	Source Area
Parameter	GW250S
Temperature (degrees C)	8.5
Specific Conductivity (µS/cm)	99.2
Dissolved Oxygen (mg/L)	1.55
pH (standard units)	6.90
Oxidation/Reduction Potential (mV)	-16.8

#### Notes:

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

#### Abbreviations:

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

# TABLE 18: AOC-004 CONCENTRATIONS OF CONSTITUENTS OF CONCERN FEBRUARY 16, 2021

Boeing Renton Facility, Renton, Washington

Analyte Metals (mg/L)	Cleanup Level <sup>2</sup>	Well ID <sup>1</sup> Source Area GW250S
Lead	0.001	0.000564

#### 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 FEBRUARY 17, 2021

Boeing Renton Facility, Renton, Washington

Well ID <sup>1</sup>	Screen Interval Depth (feet bgs)	TOC Elevation (feet) <sup>2</sup>	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) <sup>2</sup>
GW009S	4.5 to 14.5	19.36	5.37	13.99
GW010S	4.5 to 14.5	19.47	5.48	13.99
GW011D	29 to 39	19.49	5.5	13.99
GW012S	4.5 to 14.5	19.11	4.95	14.16
GW014S	4.5 to 14.5	19.24	4.98	14.26
GW147S	5 to 15	18.73	4.77	13.96
GW150S	5 to 15	19.1	5.29	13.81
GW253I	10 to 20	19.02	5.17	13.85

#### 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 <sup>1</sup> FEBRUARY 17, 2021

Boeing Renton Facility, Renton, Washington

		Well ID <sup>2</sup>						
	Source Area		Downgradier	CPOC Area				
				GW014S				
Parameter	GW009S	GW012S	GW014S	(field dup.)	GW147S	GW150S	GW253I	
Temperature (degrees C)	19.8	20.3	18.2	NA	9.5	9.4	9.2	
Specific Conductivity (µS/cm)	374.0	1859	571	NA	194.1	136.5	255.9	
Dissolved Oxygen (mg/L)	1.12	1.59	0.95	NA	0.57	1.38	1.27	
pH (standard units)	6.36	6.17	6.27	NA	4.91	6.87	6.54	
Oxidation/Reduction Potential (mV)	-26.3	-95.1	-20.0	NA	-77.8	-71.9	-76.9	
Total Organic Carbon (mg/L)	5.97	653.1	2.92	2.72	30.18	2.52	4.37	

#### 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:

 $\mu$ S/cm = microsiemens per centimeter field dup. = field duplicate AOC = area of concern mg/L = milligrams per liter

CPOC = conditional point of compliance mV = millivolts degrees C = degrees Celsius NA = not analyzed

## TABLE 21: AOC-060 CONCENTRATIONS OF CONSTITUENTS OF CONCERN <sup>1, 2</sup> FEBRUARY 17, 2021

Boeing Renton Facility, Renton, Washington

		Well ID <sup>3</sup>						
		Source						
		Area		Downgradi	ent Plume Area	1	СРОС	Area
	Cleanup				GW014S			
Analyte	Levels 4	GW009S	GW012S	GW014S	(field dup.)	GW147S	GW150S	GW253I
<b>Volatile Organic Compound</b>	s (µg/L)							
cis -1,2-Dichloroethene	0.08	0.139	1.260	0.130	0.162	0.180	0.0393	0.140
Trichloroethene	0.02	0.0294	0.0454	0.035	0.0411	0.498	0.020 U	0.0272
Vinyl Chloride	0.26	0.300	0.180	0.207	0.264	0.020 U	0.0455	0.243

#### 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:

 $\mu$ 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 FEBRUARY 17, 2021

Boeing Renton Facility, Renton, Washington

Well ID <sup>1</sup>	Screen Interval Depth (feet bgs)	TOC Elevation (feet) <sup>2</sup>	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) <sup>2</sup>
GW176S	10 to 14.3	20.15	4.56	15.59
GW178S	11.2 to 15.5	22.73	7.1	15.63
GW189S	4 to 14	22.01	5.03	16.98
GW207S	7.3 to 12	21.12	5.54	15.58
GW208S	6.3 to 11	22.45	6.9	15.55

#### 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 <sup>1</sup> FEBRUARY 17, 2021

Boeing Renton Facility, Renton, Washington

		,	Well ID <sup>2</sup>		
		Downgradient			
	Source Area	Plume Area	Shallow	Zone CPOC	Area
Parameter	GW189S <sup>3</sup>	GW176S	GW178S	GW207S	GW208S
Temperature (degrees C)	10.8	9.8	10.0	9.6	10.2
Specific Conductivity (µS/cm)	311.3	324.3	348.8	216.2	430.2
Dissolved Oxygen (mg/L)	0.56	0.75	0.64	0.48	0.44
pH (standard units)	6.09	6.28	6.23	6.51	6.24
Oxidation/Reduction Potential (mV)	-6.4	-76.6	-8.8	-77.7	-6.6
Total Organic Carbon (mg/L)	11.66	NA	NA	NA	NA

#### Notes:

- 1. Primary geochemical indicators are measured in the field.
- 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 <sup>1, 2</sup> FEBRUARY 17, 2021

Boeing Renton Facility, Renton, Washington

		Well ID <sup>3</sup>					
			Downgradient				
	Cleanup	Source Area	Plume Area	Shallo	w Zone CPO	C Area	
Analyte	Levels <sup>4</sup>	GW189S <sup>5</sup>	GW176S	GW178S	GW207S	GW208S	
<b>Volatile Organic Compounds</b>	(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	10.6 J	NA	NA	NA	NA	
Benzene	0.8	0.20 U	NA	NA	NA	NA	
Carbon Tetrachloride	0.23	0.20 U	NA	NA	NA	NA	
Chloroform	2	0.20 U	NA	NA	NA	NA	
cis-1,2-Dichloroethene	2.4	0.47	NA	NA	NA	NA	
Methylene Chloride	2	1.00 U	NA	NA	NA	NA	
Tetrachloroethene	0.05	0.0283	NA	NA	NA	NA	
Toluene	75	5.21	NA	NA	NA	NA	
trans-1,2-Dichloroethene	53.9	0.20 U	NA	NA	NA	NA	
Trichloroethene	0.08	0.143	NA	NA	NA	NA	
Vinyl Chloride	0.13	0.0405	0.138	0.224	0.066	0.349	
<b>Total Petroleum Hydrocarbor</b>	ıs (µg/L)						
TPH-G (C7-C12)	800	507	NA	NA	NA	NA	
TPH-D (C12-C24)	500	2160	NA	NA	NA	NA	
TPH-O (C24-C40)	500	3990	NA	NA	NA	NA	

#### Notes:

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

 $\mu$ g/L = micrograms per liter

AOC = area of concern

CPOC = conditional point of compliance

NA = not analyzed

TPH-D = total petroleum hydrocarbons in diesel range

TPH-G = total petroleum hydrocarbons in the gasoline range

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

## TABLE 25: APRON A GROUNDWATER ELEVATION DATA FEBRUARY 15, 2021

Boeing Renton Facility, Renton, Washington

Well ID <sup>1</sup>	Screen Interval Depth (feet bgs)	TOC Elevation (feet) <sup>2</sup>	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet) <sup>2</sup>
GW263S	8 to 18	NA	6.41	NA
GW264S	8 to 18	NA	5.04	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 <sup>1</sup> FEBRUARY 15, 2021

Boeing Renton Facility, Renton, Washington

	Well ID <sup>2</sup>
	Source Area
Parameter	GW264S
Temperature (degrees C)	11.4
Specific Conductivity (µS/cm)	747.0
Dissolved Oxygen (mg/L)	3.08
pH (standard units)	5.98
Oxidation/Reduction Potential (mV)	-45.2
Total Organic Carbon (mg/L)	29.27

#### **Notes**

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

#### **Abbreviations**

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

## TABLE 27: APRON A CONCENTRATIONS OF CONSTITUENTS OF CONCERN<sup>1</sup>

#### **FEBRUARY 15, 2021**

Boeing Renton Facility, Renton, Washington

Analyte	Cleanup Levels	Well ID <sup>2</sup> GW264S
Volatile Organic Compounds (μg/L)		
cis- 1,2-Dichloroethene	NE	0.20 U
Vinyl Chloride	NE	1.49

#### **Notes**

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

#### **Abbreviations**

 $\mu$ g/L = micrograms per liter

NE = not established

wood.

**Appendix A** 

#### TABLE A-1: GROUNDWATER COMPLIANCE MONITORING SCHEDULE

Boeing Renton Facility, Renton, Washington

		Monitoring V	Vells <sup>1, 2</sup>					
Cleanup Action Area	Source Area Wells	Downgradient Plume Wells	CPOC Wells	Additional Water Level Monitoring Wells <sup>3</sup>	Constituents of Concern⁴	Analyses <sup>5</sup>		
SWMU-168	NA	NA	GW230I	NA	VC	SW8260D SIM		
SWMU-172/SWMU-174	GW152S and GW153S	GW172S, GW173S,	GW232S, GW234S,	NA	cis -1,2-DCE, PCE, TCE, VC	SW8260D SIM <sup>8</sup>		
3WW0-172/3WW0-174	GW1525 and GW1535	and GW226S	GW235I, and GW236S	NA	Arsenic, copper, and lead	EPA 6020A		
Building 4-78/79	GW031S, GW033S, GW034S, and	NA	GW143S, GW237S, and GW240D	NA	VC, TCE, cis -1,2-DCE, benzene	SW8260D		
SWMU/AOC Group	GW244S	NA NA	GW1435, GW2375, and GW240D	NA	TPH-gasoline	NWTPH-Gx		
Former Fuel Farm SWMU/AOC Group	NA	NA	GW211S, GW221S, and GW224S	NA	TPH-jet fuel, TPH-diesel	NWTPH-Dx		
1.0.5.004.0.05.0006.7		All II I States		Benzene	SW8260D			
AOC-001/AOC-002 <sup>6, 7</sup>		All wells closed with the start of	TCE, cis -1,2-DCE, 1,1-dichloroethene, VC	SW8260D SIM <sup>8</sup>				
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 <sup>8</sup>		
					1,1,2-Trichloroethane, acetone, benzene, toluene, carbon tetrachloride, chloroform, cis -1,2-DCE, trans -1,2-DCE, methylene chloride	SW8260D		
AOC-090 <sup>9</sup>	GW189S	GW176S	GW178S, GW207S, and GW208S	NA	1,1-Dichloroethene, 1,1,2,2-tetrachloroethane, VC, PCE, TCE	SW8260D SIM <sup>8</sup>		
					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 SCHEDULE

Boeing Renton Facility, Renton, Washington

Cleanup Action		Groundwa	iter Monitoring Wells		Primary Geochemical Parameters <sup>1, 2</sup>
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 <sup>3, 4</sup>	NA		All wells closed	I with the start of Apron R construction.	
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 <sup>5</sup>
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** 



Project Nam	e:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2021		_	Date/Time:	2/ 17 /2021@	910		
Sample Num	nber:	RGW009S-	210217		Weather:	INDOIR			
Landau Repr	resentative:	BXM			•				
WATERIEV	/EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES	)	Damaged (N	(0)	Describe:	FLUSH		
DTW Before		5.37	Time:	- '	Flow through ce			GW Meter No.(s	SI OPE8
Begin Purge:	0 0 0		845	End Purge:	_	2/ 17 /2021 @	907	Gallons Purged:	
Purge water d		2/ 1//2021	55-gal Drum	Ĕ	Storage Tank	Ground		SITE TREATM	-
i uige water u	isposed to.		55-gai Diulii		Storage Talik	□ Ground	Other	SHE IKEAIW	ENTSTSTEM
Time	Temp (°F/°C)	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	, ,	(uS/cm) s: Stablizatio	(mg/L) n of Paramet	ers for three	(mV) consecutive read	(NTU) lings within the fo	(ft) llowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
848	19.4	395.2	0.17	6.32	-14.8		5.38		
851	19.3	387.5	0.20	6.33	-16.5		5.37		
							-		
854	19.3	390.6	0.41	6.35	-18.9		5.37		
857	19.4	388.7	0.63	6.34	-20.8				
900	19.5	381.8	0.81	6.35	-22.5				
903	19.7	374.9	1.02	6.36	-24.8				
906	19.8	374.0	1.12	6.36	-26.3				
SAMPLE CO	LLECTION D	DATA							
Sample Colle			Bailer		Pump/Pump Type	DED BLADDER			
Made of:	П	Stainless Ste	el	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Wa	_	Tap Rinse	DI Water	Dedicated	-		
(By Numerica			311 <u> </u>	rap Kinse	□ Di Water	Dedicated			
	u <b>(n</b> raeri	( )ther							
. •		Other	sheen etc.):	CLEAR CO	LORLESE NO	DOOR NO SHEEN			
. •		_	, sheen, etc.):	CLEAR, CO	LORLESE, NO	DOR, NO SHEEN	1		
. •		_	D.O. (mg/L)	CLEAR, CO	ORP (mV)	DDOR, NO SHEEN  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)	pН	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C) 19.8	Cond. (uS/cm)  373.7  372.9	D.O. (mg/L) 1.15	рН 6.36 6.36	ORP (mV) -26.4 -26.9	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 19.8 19.8	Cond. (uS/cm)  373.7  372.9  373.3	D.O. (mg/L) 1.15 1.16	pH  6.36  6.36  6.36	ORP (mV) -26.4 -26.9	Turbidity	DTW		
Replicate  1 2 3 4	Temp (°F/°C) 19.8 19.8 19.9	Cond. (uS/cm)  373.7  372.9  373.3  373.0	D.O. (mg/L) 1.15 1.16 1.17 1.18	pH  6.36  6.36  6.36  6.36	ORP (mV) -26.4 -26.9 -27.0	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 19.8 19.8	Cond. (uS/cm)  373.7  372.9  373.3	D.O. (mg/L) 1.15 1.16	pH  6.36  6.36  6.36	ORP (mV) -26.4 -26.9	Turbidity	DTW		
Replicate  1 2 3 4 Average:	Temp (°F/°C) 19.8 19.8 19.9 19.9	Cond. (uS/cm)  373.7  372.9  373.3  373.0  373.2	D.O. (mg/L)  1.15  1.16  1.17  1.18	pH  6.36  6.36  6.36  6.36  6.36	ORP (mV) -26.4 -26.9 -27.0 -27.1 -26.9	Turbidity	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 19.8 19.8 19.9 19.9	Cond. (uS/cm)  373.7  372.9  373.0  373.2  NALYSIS AI	D.O. (mg/L)  1.15  1.16  1.17  1.18  1.17	6.36 6.36 6.36 6.36 6.36 6.36	ORP (mV)  -26.4  -26.9  -27.0  -27.1  -26.9  TYPE (Circle a)	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 19.8 19.8 19.9 19.9 19.9 TYPICAL A (8260) (8010 (8270D) (PA	Cond. (uS/cm)  373.7  372.9  373.3  373.0  373.2  NALYSIS AI  O) (8020) (N  H) (NWTPI	D.O. (mg/L)  1.15  1.16  1.17  1.18  1.17  LLOWED PERMYPH-G) (H-D) (NWTF	6.36 6.36 6.36 6.36 6.36 CR BOTTLE NWTPH-GX	ORP (mV)  -26.4  -26.9  -27.0  -27.1  -26.9  TYPE (Circle a) (BTEX)  H-HCID) (8081)	Turbidity (NTU)  pplicable or write	DTW (ft)	nalysis below) WA  WA  WA	Observations
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 19.8 19.8 19.9 19.9 19.9 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm)  373.7  372.9  373.3  373.0  373.2  NALYSIS AI  (M) (8020) (N  AH) (NWTPH  ctivity) (TD)	D.O. (mg/L)  1.15  1.16  1.17  1.18  1.17  LLOWED PERMYPH-G) (MYTPH-G) (NWTPH-G) (NWTPH-G) (MYTPH-G) (MYTP	6.36 6.36 6.36 6.36 6.36 CR BOTTLE NWTPH-GX PH-Dx) (TPF	ORP (mV)  -26.4  -26.9  -27.0  -27.1  -26.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (	DTW (ft)	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  19.8  19.8  19.9  19.9  19.9  TYPICAL A (8260) (8010 (8270D) (PA (PM) (Conduction))	Cond. (uS/cm)  373.7  372.9  373.3  373.0  373.2  NALYSIS AI  0) (8020) (N  H) (NWTPI  ctivity) (TD:  C) (Total PO-	D.O. (mg/L)  1.15  1.16  1.17  1.18  1.17  LLOWED PERMYPH-G) (M-D) (NWTPH-G) (M-D)	6.36 6.36 6.36 6.36 6.36 CR BOTTLE NWTPH-Gx; PH-Dx) (TPFI OD) (Turbidahl Nitroger	ORP (mV)  -26.4  -26.9  -27.0  -27.1  -26.9  TYPE (Circle a) (BTEX)  H-HCID) (8081)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (	DTW (ft)	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 19.8 19.8 19.9 19.9 19.9 19.9 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Too	Cond. (uS/cm)  373.7  372.9  373.3  373.0  373.2  NALYSIS AI  0) (8020) (N  CH) (NWTPH  activity) (TD:  C) (Total PO-  de) (WAD Cy	D.O. (mg/L)  1.15  1.16  1.17  1.18  1.17  LLOWED PERIVETH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Freewanide) (Freewanide) (Freewanide) (Freewanide) (Freewanide) (Freewanide) (Freewanide)	pH  6.36  6.36  6.36  6.36  6.36  CR BOTTLE  NWTPH-GX  PH-DX) (TPF  OD) (Turbic dahl Nitroger  Cyanide)	ORP (mV)  -26.4  -26.9  -27.0  -27.1  -26.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity (MH3) (NO3)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (67)	non-standard a	nalysis below) WA  WA  ONE WA	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  19.8  19.8  19.9  19.9  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  373.7  372.9  373.3  373.0  373.2  NALYSIS AI  O) (8020) (N  CH) (NWTPF  Intertivity) (TDtal PO-  (C) (Total PO-  (e) (WAD Cy  () (As) (Sb) (	D.O. (mg/L)  1.15  1.16  1.17  1.18  1.17  LLOWED PE WYPH-G) (WYFF S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca	pH  6.36  6.36  6.36  6.36  CR BOTTLE  NWTPH-GX  PH-Dx) (TPF  OD) (Turbidahl Nitroger  Cyanide)  () (Cd) (Co)	ORP (mV)  -26.4  -26.9  -27.0  -27.1  -26.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (NH3) (NO3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  19.8  19.8  19.9  19.9  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm)  373.7  372.9  373.3  373.0  373.2  NALYSIS AI  (MALYSIS	D.O. (mg/L)  1.15  1.16  1.17  1.18  1.17  LLOWED PE WYPH-G) (WYFF S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca	pH  6.36  6.36  6.36  6.36  CR BOTTLE  NWTPH-GX  PH-Dx) (TPF  OD) (Turbidahl Nitroger  Cyanide)  () (Cd) (Co)	ORP (mV)  -26.4  -26.9  -27.0  -27.1  -26.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (NH3) (NO3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  19.8  19.8  19.9  19.9  19.9  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 373.7 372.9 373.3 373.0 373.2  NALYSIS AI () (8020) (N () (NWTPH () (Total PO- () (Total PO- () (As) (Sb) (Set als) (As) (Sb) (Set als) (As) (As) (As) (As) (As) (As) (As) (A	D.O. (mg/L)  1.15  1.16  1.17  1.18  1.17  1.18  1.17  LLOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH  6.36  6.36  6.36  6.36  CR BOTTLE  NWTPH-GX  PH-Dx) (TPF  OD) (Turbidahl Nitroger  Cyanide)  () (Cd) (Co)	ORP (mV)  -26.4  -26.9  -27.0  -27.1  -26.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (NH3) (NO3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  19.8  19.8  19.9  19.9  19.9  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  373.7  372.9  373.3  373.0  373.2  NALYSIS AI  (b) (8020) (N  AH) (NWTPH  (ctivity) (TDi  (c) (Total PO-  (c) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L)  1.15  1.16  1.17  1.18  1.17  1.18  1.17  LLOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH  6.36  6.36  6.36  6.36  CR BOTTLE  NWTPH-GX  PH-Dx) (TPF  OD) (Turbidahl Nitroger  Cyanide)  () (Cd) (Co)	ORP (mV)  -26.4  -26.9  -27.0  -27.1  -26.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (NH3) (NO3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  19.8  19.8  19.9  19.9  19.9  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 373.7 372.9 373.3 373.0 373.2  NALYSIS AI () (8020) (N () (NWTPH () (Total PO- () (Total PO- () (As) (Sb) (Set als) (As) (Sb) (Set als) (As) (As) (As) (As) (As) (As) (As) (A	D.O. (mg/L)  1.15  1.16  1.17  1.18  1.17  1.18  1.17  LLOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH  6.36  6.36  6.36  6.36  CR BOTTLE  NWTPH-GX  PH-Dx) (TPF  OD) (Turbidahl Nitroger  Cyanide)  () (Cd) (Co)	ORP (mV)  -26.4  -26.9  -27.0  -27.1  -26.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (NH3) (NO3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  19.8  19.8  19.9  19.9  19.9  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 373.7 372.9 373.3 373.0 373.2  NALYSIS AI () (8020) (N () (NWTPH () (Total PO- () (Total PO- () (As) (Sb) (Set als) (As) (Sb) (Set als) (As) (As) (As) (As) (As) (As) (As) (A	D.O. (mg/L)  1.15  1.16  1.17  1.18  1.17  1.18  1.17  LLOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH  6.36  6.36  6.36  6.36  CR BOTTLE  NWTPH-GX  PH-Dx) (TPF  OD) (Turbidahl Nitroger  Cyanide)  () (Cd) (Co)	ORP (mV)  -26.4  -26.9  -27.0  -27.1  -26.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (NH3) (NO3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  19.8  19.8  19.9  19.9  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 373.7 372.9 373.3 373.0 373.2  NALYSIS AI () (8020) (N () (NWTPH () (Total PO- () (Total PO- () (As) (Sb) (Set als) (As) (Sb) (Set als) (As) (As) (As) (As) (As) (As) (As) (A	D.O. (mg/L)  1.15  1.16  1.17  1.18  1.17  1.18  1.17  LLOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH  6.36  6.36  6.36  6.36  CR BOTTLE  NWTPH-GX  PH-Dx) (TPF  OD) (Turbidahl Nitroger  Cyanide)  () (Cd) (Co)	ORP (mV)  -26.4  -26.9  -27.0  -27.1  -26.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (NH3) (NO3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  19.8  19.8  19.9  19.9  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 373.7 372.9 373.3 373.0 373.2  NALYSIS AI () (8020) (N () (NWTPH () (Total PO- () (Total PO- () (As) (Sb) (Set als) (As) (Sb) (Set als) (As) (As) (As) (As) (As) (As) (As) (A	D.O. (mg/L)  1.15  1.16  1.17  1.18  1.17  1.18  1.17  LLOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH  6.36  6.36  6.36  6.36  CR BOTTLE  NWTPH-GX  PH-Dx) (TPF  OD) (Turbidahl Nitroger  Cyanide)  () (Cd) (Co)	ORP (mV)  -26.4  -26.9  -27.0  -27.1  -26.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (NH3) (NO3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (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:		Feb. 2021			Date/Time:	2/ 17 /2021@			
Sample Nun	nber:	RGW010S-	210217		Weather:	INDOORS			
Landau Rep	resentative:	BXM							
WATER LEV	VEL/WELL/PI	JRGE DATA							
Well Condition	on:	Secure (YES	)	Damaged (N	IO)	Describe:	FLUSH		
DTW Before	Purging (ft)	5.48	Time:	923	Flow through ce	ll vol.		GW Meter No.(	s SLOPE 8
	Date/Time:			End Purge:	_	2/ /2021 @	N/A	Gallons Purged:	
Purge water of			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	-
Č	•	-	-				_		
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	` ′	. ,	n of Paramet		consecutive read	lings within the fo	. ,	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
	_								
	$\mathbf{W}_{A}$	ATER	LEV	EL O	NLY				
		-							
	·						-		
							-		
SAMPLE CO	LLECTION I	DATA				<u> </u>			
Sample Colle	ected With:		Bailer		Pump/Pump Type	;			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proces	dure:	Alconox Wa	sh 🗍	Tap Rinse	DI Water	Dedicated		_	
(By Numerica	al Ordar)	E a		•	₩				
	u Oraer)	Other							
Sample Desc	ription (color,	₩	, sheen, etc.):						
Sample Desc		₩	, sheen, etc.):						
Sample Describerate Replicate	ription (color,	turbidity, odor	D.O.	pН	ORP	Turbidity	DTW	Ferrous iron	Comments/
	ription (color,	turbidity, odor		рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
	ription (color,	turbidity, odor	D.O.	рН		•			
Replicate	ription (color,	turbidity, odor	D.O.	рН		•			
Replicate 1	ription (color,	turbidity, odor	D.O.	pН		•			
Replicate  1 2 3	ription (color,	turbidity, odor	D.O.	pН		•			
Replicate  1 2 3 4	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)		(mV)	(NTU)			
Replicate  1 2 3	ription (color,	turbidity, odor	D.O.	pH #DIV/0!		•			
Replicate  1 2 3 4	Temp (°F/°C)  #DIV/0!	#DIV/0!	D.O. (mg/L)  #DIV/0!  LLOWED PP	#DIV/0!	#DIV/0!	(NTU)	(ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) #DIV/0! TYPICAL A (8260) (8010	#DIV/0!  NALYSIS AI  (0) (8020) (N	#DIV/0! LOWED PE	#DIV/0! ER BOTTLE NWTPH-Gx	#DIV/0!	#DIV/0!	(ft)	nalysis below)	Observations OR  OR
Replicate  1 2 3 4 Average:	#DIV/0!  TYPICAL A  (8260) (8010) (8270D) (PA	#DIV/0!  NALYSIS AI  () (8020) (NAH) (NWTPH	#DIV/0! LOWED PP	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI	#DIV/0!  #TYPE (Circle a) (BTEX) H-HCID) (8081)	#DIV/0!  pplicable or write  (8141) (Oil & G	non-standard a	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) (N AH) (NWTPH activity) (TD:	#DIV/0!  LOWED PERMITH-G) (NWTH-S) (TSS) (B	#DIV/0! CR BOTTLE NWTPH-Gx PH-Dx) (TPI	#DIV/0!  TYPE (Circle ap ) (BTEX) H-HCID) (8081) dity) (Alkalinity	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G) (HCO3/CO3) (6	non-standard a	nalysis below) WA  WA  WA	Observations OR  OR
Replicate  1 2 3 4 Average:	#DIV/0!  #TYPICAL A (8260) (8010 (8270D) (PA (PH) (Condu	#DIV/0!  **NALYSIS AI **O) (8020) (N AH) (NWTPI **netivity) (TD: **C) (Total PO-	#DIV/0!  LLOWED PERWITH-G) (NWTPH-G) (NWTPH-S) (TSS) (E) (Total Kie	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI GOD) (Turbi dahl Nitroger	#DIV/0!  #TYPE (Circle a) (BTEX) H-HCID) (8081)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G) (HCO3/CO3) (6	non-standard a	nalysis below) WA  WA  WA	Observations OR  OR
Replicate  1 2 3 4 Average:	#DIV/0!  #TYPICAL A (8260) (8010 (8270D) (PA (COD) (TOO	#DIV/0!  #DIV/0!  NALYSIS AI  (0) (8020) (N  AH) (NWTPH  activity) (TDa  C) (Total PO-	#DIV/0!  **LOWED PF  IWTPH-G) (NWTP  S) (TSS) (E  4) (Total Kie  ranide) (Free	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI GOD) (Turbi dahl Nitroger Cyanide)	#DIV/0!  TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3.	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  ONE WA	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:	#DIV/0!  TYPICAL A  (8260) (8010 (8270D) (P4 (pH) (Condu (COD) (Total Cyanic (Total Metals	#DIV/0!  #DIV/0!  NALYSIS AI  (a) (8020) (N  AH) (NWTPH  detivity) (TD:  (C) (Total PO-  de) (WAD Cy  ) (As) (Sb) (	#DIV/0!  #DIV/0!  **LOWED PF  IWTPH-G) (NWTF  S) (TSS) (B  4) (Total Kie  ranide) (Free  Ba) (Be) (Ca	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI GOD) (Turbi dahl Nitroger Cyanide)	#DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB 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) (P4 (pH) (Condu (COD) (Total Cyanic (Total Metals	#DIV/0!  #DIV/0!  NALYSIS AI  () (8020) (N  AH) (NWTPH  lectivity) (TD:  (C) (Total PO-  le) (WAD Cy  ) (As) (Sb) (  fetals) (As) (St)	#DIV/0!  #DIV/0!  **LOWED PF  IWTPH-G) (NWTF  S) (TSS) (B  4) (Total Kie  ranide) (Free  Ba) (Be) (Ca	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI GOD) (Turbi dahl Nitroger Cyanide)	#DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB ON (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:	#DIV/0!  TYPICAL A (8260) (8014 (8270D) (PA (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M	#DIV/0!  #DIV/0!  NALYSIS AI  () (8020) (N  AH) (NWTPH  lectivity) (TD:  (C) (Total PO-  le) (WAD Cy  ) (As) (Sb) (  fetals) (As) (St)	#DIV/0!  LLOWED PERMITH-G) (MITH-G) (NWTFH-G) (MITH-G) (Total Kiewanide) (Free Ba) (Be) (Canon Ba) (Be) (Be) (Be) (Be) (Be) (Be) (Be) (Be	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI GOD) (Turbi dahl Nitroger Cyanide)	#DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB 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) (8014 (8270D) (PA (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M	#DIV/0!  #DIV/0!  NALYSIS AI  (b) (8020) (N  AH) (NWTPH  activity) (TD:  (C) (Total PO-  de) (WAD Cy  ) (As) (Sb) (  etals) (As) (St  ag short list)	#DIV/0!  LLOWED PERMITH-G) (MITH-G) (NWTFH-G) (MITH-G) (Total Kiewanide) (Free Ba) (Be) (Canon Ba) (Be) (Be) (Be) (Be) (Be) (Be) (Be) (Be	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI GOD) (Turbi dahl Nitroger Cyanide)	#DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB 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) (8014 (8270D) (PA (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M	#DIV/0!  #DIV/0!  NALYSIS AI  (b) (8020) (N  AH) (NWTPH  activity) (TD:  (C) (Total PO-  de) (WAD Cy  ) (As) (Sb) (  etals) (As) (St  ag short list)	#DIV/0!  LLOWED PERMITH-G) (MITH-G) (NWTFH-G) (MITH-G) (Total Kiewanide) (Free Ba) (Be) (Canon Ba) (Be) (Be) (Be) (Be) (Be) (Be) (Be) (Be	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI GOD) (Turbi dahl Nitroger Cyanide)	#DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB 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) (8014 (8270D) (PA (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M	#DIV/0!  #DIV/0!  NALYSIS AI  (b) (8020) (N  AH) (NWTPH  activity) (TD:  (C) (Total PO-  de) (WAD Cy  ) (As) (Sb) (  etals) (As) (St  ag short list)	#DIV/0!  LLOWED PERMITH-G) (MITH-G) (NWTFH-G) (MITH-G) (Total Kiewanide) (Free Ba) (Be) (Canon Ba) (Be) (Be) (Be) (Be) (Be) (Be) (Be) (Be	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI GOD) (Turbi dahl Nitroger Cyanide)	#DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB 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) (8010 (8270D) (PA  (PH) (Condu  (COD) (Total Cyanic  (Total Metals  (Dissolved M  VOC (Boein  Methane Eth	#DIV/0!  #DIV/0!  NALYSIS AI  (b) (8020) (N  AH) (NWTPH  activity) (TD:  (C) (Total PO-  de) (WAD Cy  ) (As) (Sb) (  etals) (As) (St  ag short list)	#DIV/0!  LLOWED PERMITH-G) (MITH-G) (NWTFH-G) (MITH-G) (Total Kiewanide) (Free Ba) (Be) (Canon Ba) (Be) (Be) (Be) (Be) (Be) (Be) (Be) (Be	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI GOD) (Turbi dahl Nitroger Cyanide)	#DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB 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) (8010 (8270D) (PA  (PH) (Condu  (COD) (Total Cyanic  (Total Metals  (Dissolved M  VOC (Boein  Methane Eth	#DIV/0!  #DIV/0!  NALYSIS AI  (b) (8020) (N  AH) (NWTPH  activity) (TD:  (C) (Total PO-  de) (WAD Cy  ) (As) (Sb) (  etals) (As) (St  ag short list)	#DIV/0!  LLOWED PERMITH-G) (MITH-G) (NWTFH-G) (MITH-G) (Total Kiewanide) (Free Ba) (Be) (Canon Ba) (Be) (Be) (Be) (Be) (Be) (Be) (Be) (Be	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI GOD) (Turbi dahl Nitroger Cyanide)	#DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB 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) (8010 (8270D) (PA  (PH) (Condu  (COD) (Total Cyanic  (Total Metals  (Dissolved M  VOC (Boein  Methane Eth	#DIV/0!  #DIV/0!  NALYSIS AI  (b) (8020) (N  AH) (NWTPH  activity) (TD:  (C) (Total PO-  de) (WAD Cy  ) (As) (Sb) (  etals) (As) (St  ag short list)	#DIV/0!  LLOWED PERMITH-G) (MITH-G) (NWTFH-G) (MITH-G) (Total Kiewanide) (Free Ba) (Be) (Canon Ba) (Be) (Be) (Be) (Be) (Be) (Be) (Be) (Be	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI GOD) (Turbi dahl Nitroger Cyanide)	#DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB 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:		Feb. 2021			Date/Time:	2/ 17 /2021@			
Sample Nun	nber:	RGW011D-	210217		Weather:	INDOORS			
Landau Rep	resentative:	BXM							
WATER LEV	VEL/WELL/PI	JRGE DATA							
Well Condition		Secure (YES	)	Damaged (N	IO)	Describe:	FLUSH		
DTW Before	Purging (ft)	5.5	Time:	-	Flow through ce	ll vol.		GW Meter No.(s	s)
	Date/Time:			End Purge:	_	2/ /2021 @	N/A	Gallons Purged:	
Purge water of			55-gal Drum	Ě	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
1 11110	. ,	. ,	` 0 /	ters for three	. ,	lings within the fo	. ,	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
	_								
	_								
	$\mathbf{W}_{A}$	ATER	LEV	EL O	NLY				
	· <del></del>								-
							-		
							-		
	- ·								
SAMPLE CO	DLLECTION I	DATA							
Sample Colle	ected With:		Bailer	П	Pump/Pump Type	;			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proces	dure:	Alconox Wa	sh 🗖	Tap Rinse	DI Water	Dedicated	_		
(By Numerica				F	Ш				
		Other							
Sample Desc		Other	sheen etc.):						
Sample Desc	ription (color,	₩	, sheen, etc.):						
Sample Description Replicate	ription (color,	turbidity, odor	D.O.	pН	ORP	Turbidity	DTW	Ferrous iron	Comments/
	ription (color,	turbidity, odor			ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
	ription (color,	turbidity, odor	D.O.			•			
Replicate	ription (color,	turbidity, odor	D.O.			•			
Replicate 1	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 #DIV/0!	(mV)  #DIV/0!	(NTU)	(ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) #DIV/0! TYPICAL A (8260) (8010	#DIV/0!  NALYSIS AI (0) (8020) (N	#DIV/0! LOWED PE	#DIV/0! ER BOTTLE NWTPH-Gx	#DIV/0!	#DIV/0!	(ft)	nalysis below)	Observations OR
Replicate  1 2 3 4 Average:	#DIV/0!  TYPICAL A  (8260) (8010)  (8270D) (PA	#DIV/0!  NALYSIS AI  () (8020) (N  AH) (NWTPH	#DIV/0! LOWED PP	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI	#DIV/0!  #TYPE (Circle a) (BTEX) H-HCID) (8081)	#DIV/0!  pplicable or write  (8141) (Oil & G	non-standard a	nalysis below) WA  WA  WA	Observations
Replicate  1 2 3 4 Average:	#DIV/0!  TYPICAL A (8260) (8010 (8270D) (P4) (pH) (Condu	#DIV/0!  WALYSIS AI (0) (8020) (N AH) (NWTPH activity) (TD:	#DIV/0!  LOWED PERMITH-G) (NWTH-S) (TSS) (B	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI	#DIV/0!  TYPE (Circle ap ) (BTEX) H-HCID) (8081) dity) (Alkalinity	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G) (HCO3/CO3) (6	non-standard a	nalysis 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 **O) (8020) (N AH) (NWTPI **activity) (TD: **C) (Total PO-	#DIV/0!  LLOWED PERWITH-G) (NWTPH-G) (NWTPH-S) (TSS) (E) (Total Kie	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger	#DIV/0!  #TYPE (Circle a) (BTEX) H-HCID) (8081)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G) (HCO3/CO3) (6	non-standard a	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:	#DIV/0!  #TYPICAL A (8260) (8010 (8270D) (PA (COD) (TOO	#DIV/0!  #DIV/0!  NALYSIS AI  (0) (8020) (N  AH) (NWTPH  activity) (TD:  C) (Total PO-	#DIV/0!  **LOWED PF  IWTPH-G) (NWTP  S) (TSS) (E  4) (Total Kie  ranide) (Free	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI BOD) (Turbi Edahl Nitroger Cyanide)	#DIV/0!  TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3.	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)	non-standard a rease) Cl) (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) (8010 (8270D) (P4  (pH) (Condu (COD) (Total Cyanic (Total Metals	#DIV/0!  **NALYSIS AI **O) (8020) (N  AH) (NWTPH **Ictivity) (TD: C) (Total PO- **de) (WAD Cy ) (As) (Sb) (	#DIV/0!  #DIV/0!  **LOWED PF  IWTPH-G) (NWTF  S) (TSS) (B  4) (Total Kie  ranide) (Free  Ba) (Be) (Ca	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (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  (PH) (Condu  (COD) (Total Cyanic  (Total Metals (Dissolved M	#DIV/0!  **NALYSIS AI  **O) (8020) (N  AH) (NWTPH  **Letivity) (TD:  C) (Total PO-  **dle) (WAD Cy  ) (As) (Sb) (  fetals) (As) (Sb) (	#DIV/0!  #DIV/0!  **LOWED PF  IWTPH-G) (NWTF  S) (TSS) (B  4) (Total Kie  ranide) (Free  Ba) (Be) (Ca	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  TI) (V) (Zn) (H	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:	#DIV/0!  #TYPICAL A (8260) (8014 (8270D) (PA (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M	#DIV/0!  #DIV/0!  NALYSIS AI  (0) (8020) (N  AH) (NWTPH  activity) (TD:  (C) (Total PO-  de) (WAD Cy  ) (As) (Sb) ( etals) (As) (Sb.  g short list)	#DIV/0!  LLOWED PERMITH-G) (MITH-G) (NWTFH-G) (MITH-G) (Total Kiewanide) (Free Ba) (Be) (Canon Ba) (Be) (Be) (Be) (Be) (Be) (Be) (Be) (Be	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (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) (8014 (8270D) (PA (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M	#DIV/0!  **NALYSIS AI  **O) (8020) (N  AH) (NWTPH  **Letivity) (TD:  C) (Total PO-  **dle) (WAD Cy  ) (As) (Sb) (  fetals) (As) (Sb) (	#DIV/0!  LLOWED PERMITH-G) (MITH-G) (NWTFH-G) (MITH-G) (Total Kiewanide) (Free Ba) (Be) (Canon Ba) (Be) (Be) (Be) (Be) (Be) (Be) (Be) (Be	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (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) (8014 (8270D) (PA (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M	#DIV/0!  #DIV/0!  NALYSIS AI  (0) (8020) (N  AH) (NWTPH  activity) (TD:  (C) (Total PO-  de) (WAD Cy  ) (As) (Sb) ( etals) (As) (Sb.  g short list)	#DIV/0!  LLOWED PERMITH-G) (MITH-G) (NWTFH-G) (MITH-G) (Total Kiewanide) (Free Ba) (Be) (Canon Ba) (Be) (Be) (Be) (Be) (Be) (Be) (Be) (Be	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (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) (8014 (8270D) (PA (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M	#DIV/0!  #DIV/0!  NALYSIS AI  (0) (8020) (N  AH) (NWTPH  activity) (TD:  (C) (Total PO-  de) (WAD Cy  ) (As) (Sb) ( etals) (As) (Sb.  g short list)	#DIV/0!  LLOWED PERMITH-G) (MITH-G) (NWTFH-G) (MITH-G) (Total Kiewanide) (Free Ba) (Be) (Canon Ba) (Be) (Be) (Be) (Be) (Be) (Be) (Be) (Be	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (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) (8010 (8270D) (PA  (PH) (Conduction (Total Cyanical Cyani	#DIV/0!  #DIV/0!  NALYSIS AI  (0) (8020) (N  AH) (NWTPH  activity) (TD:  (C) (Total PO-  de) (WAD Cy  ) (As) (Sb) ( etals) (As) (Sb.  g short list)	#DIV/0!  LLOWED PERMITH-G) (MITH-G) (NWTFH-G) (MITH-G) (Total Kiewanide) (Free Ba) (Be) (Canon Ba) (Be) (Be) (Be) (Be) (Be) (Be) (Be) (Be	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (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) (8010 (8270D) (PA  (PH) (Conduction (Total Cyanical Cyani	#DIV/0!  #DIV/0!  NALYSIS AI  (0) (8020) (N  AH) (NWTPH  activity) (TD:  (C) (Total PO-  de) (WAD Cy  ) (As) (Sb) ( etals) (As) (Sb.  g short list)	#DIV/0!  LLOWED PERMITH-G) (MITH-G) (NWTFH-G) (MITH-G) (Total Kiewanide) (Free Ba) (Be) (Canon Ba) (Be) (Be) (Be) (Be) (Be) (Be) (Be) (Be	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (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) (8010 (8270D) (PA  (PH) (Conduction (Total Cyanical Cyani	#DIV/0!  #DIV/0!  NALYSIS AI  (0) (8020) (N  AH) (NWTPH  activity) (TD:  (C) (Total PO-  de) (WAD Cy  ) (As) (Sb) ( etals) (As) (Sb.  g short list)	#DIV/0!  LLOWED PERMITH-G) (MITH-G) (NWTFH-G) (MITH-G) (Total Kiewanide) (Free Ba) (Be) (Canon Ba) (Be) (Be) (Be) (Be) (Be) (Be) (Be) (Be	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPI BOD) (Turbi edahl Nitroger e Cyanide) a) (Cd) (Co)	#DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Nam	ne:	Boeing Ren	ton		Project Number	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2021			Date/Time:	2/ 17/2021@	1005		
Sample Nun	nber:	RGW012S-	210217		Weather:	INDOORS			
Landau Rep	resentative:	BXM							
WATER LEV	VEL/WELL/PU	JRGE DATA							
Well Condition	on:	Secure (YES	)	Damaged (N	(O)	Describe:	FLUSH		
DTW Before	Purging (ft)	4.95	Time:	940	Flow through ce	ll vol.		GW Meter No.(s	s SLOPE 8
Begin Purge:	Date/Time:	2/ 17 /2021	942	End Purge:	Date/Time:	2/ 17 /2021 @	1004	Gallons Purged:	<1
Purge water d	lisposed 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	
945	20.8	1773	0.27	6.11	-78.5		5.03		
948	20.5	1809	0.73	6.13	-88.9		5.07		
951	20.5	1809	1.01	6.13	-91.2		5.10		
954	20.4	1833	1.53	6.15	-95.1				
957	20.3	1850	1.59	6.16	-95.1				
1000		1859	1.59	6.17	-95.1				-
1000	20.3	1037	1.37	0.17	-73.1				-
	·								
CALIFIE CO	N. I. ECTION F								
Sample Colle	OLLECTION I		Bailer		Dump/Dump Type	e DED BLADDER			
Made of:	cted with.	Stainless Ste	_	PVC	Teflon	Polyethylene	Other	Dedicated	
	. —		_		₩	<b>=</b> ' '	□ Other	Dedicated	
Decon Proceed		Alconox Wa	sh 📋	Tap Rinse	DI Water	Dedicated			
(Ry Numariae	al Oudou)	Other							
(By Numerica		Other	ahaan ata )ı	CLOUDY	I ICHT VEI OW	TINIT VEDVE	FEDVECCENT	SOME LIGHT S	OI IDS
. •		₩	, sheen, etc.):			V TINT, VERY EF	FERVESCENT,	SOME LIGHT S	OLIDS
. •		₩	p.O.		SLIGHT YELOIV SLIGHT BAD O		FERVESCENT, DTW	SOME LIGHT SO	OLIDS  Comments/
Sample Descr	ription (color,	turbidity, odor	-	NO SHEEN.	, SLIGHT BAD (	DOR			
Sample Descr	ription (color,	turbidity, odor	D.O.	NO SHEEN.	, SLIGHT BAD (	DOR Turbidity	DTW	Ferrous iron	Comments/
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	NO SHEEN	ORP (mV)	DOR Turbidity	DTW	Ferrous iron	Comments/
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	NO SHEEN, pH 6.17	SLIGHT BAD ( ORP (mV) -94.8	DOR Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3	Temp (°F/°C) 20.4	Cond. (uS/cm)  1873	D.O. (mg/L) 1.58 1.59	<b>PH</b> 6.17  6.17	SLIGHT BAD ( ORP (mV) -94.8	DOR Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3 4	Temp (°F/°C) 20.4 20.5 20.5	Cond. (uS/cm) 1873 1883 1882	D.O. (mg/L) 1.58 1.59 1.57	NO SHEEN, pH  6.17  6.17  6.17  6.17	ORP (mV) -94.8 -94.9 -94.8	DOR Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3 4 Average:	Temp (°F/°C) 20.4 20.5 20.5 20.5	Cond. (uS/cm) 1873 1883 1882 1885	D.O. (mg/L) 1.58 1.59 1.57 1.57	6.17 6.17 6.17 6.17 6.17	ORP (mV) -94.8 -94.8 -94.8 -94.8	DDOR Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate  1 2 3 4 Average:	Temp (°F/°C) 20.4 20.5 20.5 20.5 TYPICAL A	Cond. (uS/cm)  1873  1883  1882  1885  1881	D.O. (mg/L) 1.58 1.59 1.57 1.57 1.58	NO SHEEN  pH  6.17  6.17  6.17  6.17  6.17  6.17	SLIGHT BAD ( ORP (mV)  -94.8  -94.8  -94.8  -94.8  TYPE (Circle a	DOR Turbidity	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 20.4 20.5 20.5 20.5 TYPICAL A (8260) (8010	Cond. (uS/cm)  1873  1883  1882  1885  1881  NALYSIS AI  () (8020) (N	D.O. (mg/L)  1.58  1.59  1.57  1.57  1.58  LLOWED PP	0.17 6.17 6.17 6.17 6.17 6.17 6.17 6.17 (CR BOTTLE (NWTPH-GX)	ORP (mV) -94.8 -94.9 -94.8 -94.8 -94.8 TYPE (Circle a	DDOR Turbidity (NTU)  pplicable or write	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA	Comments/ Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 20.4 20.5 20.5 20.5 20.5 20.5 (8260) (8010 (8270D) (PA	Cond. (uS/cm)  1873  1883  1882  1885  1881  NALYSIS AI  O) (8020) (NAH) (NWTPH	D.O. (mg/L)  1.58  1.59  1.57  1.58  LLOWED PRIVITH-G) (NWTH-G) (NWTH-G)	6.17 6.17 6.17 6.17 6.17 6.17 6.17 6.17	SLIGHT BAD CORP (mV)  -94.8  -94.9  -94.8  -94.8  TYPE (Circle a) (BTEX)  H-HCID) (8081)	DDOR Turbidity (NTU)  pplicable or write	DTW (ft)  non-standard as	Ferrous iron (Fe II)  malysis below)  WA  WA  WA	Comments/ Observations
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  20.4  20.5  20.5  20.5  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conductive)	Cond. (uS/cm)  1873  1883  1882  1885  1881  NALYSIS AI  O) (8020) (N  AH) (NWTPHetivity) (TD:	D.O. (mg/L)  1.58  1.59  1.57  1.58  LLOWED PF  WYPH-G) (NWTH-S) (TSS) (ESS) (ESS)	6.17 6.17 6.17 6.17 6.17 6.17 6.17 6.17	ORP (mV)  -94.8  -94.9  -94.8  -94.8  TYPE (Circle a) (BTEX)  H-HCID) (8081)  dity) (Alkalinity	DDOR Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (6	DTW (ft)  non-standard as	Ferrous iron (Fe II)  malysis below)  WA  WA  WA	Comments/ Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  20.4  20.5  20.5  20.5  TYPICAL A (8260) (8010 (8270D) (PA (PH) (Condu	Cond. (uS/cm)  1873  1883  1882  1885  1881  NALYSIS AI (2) (8020) (N (3) (NWTPH (4) (NWTPH (4) (C) (Total PO-	D.O. (mg/L)  1.58  1.59  1.57  1.57  1.58  LLOWED PI WTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (TSS) (Ed.) (Total Kieles)	6.17 6.17 6.17 6.17 6.17 6.17 6.19 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPFBOD) (Turbic dahl Nitroger	SLIGHT BAD CORP (mV)  -94.8  -94.9  -94.8  -94.8  TYPE (Circle a) (BTEX)  H-HCID) (8081)	DDOR Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (6	DTW (ft)  non-standard as	Ferrous iron (Fe II)  malysis below)  WA  WA  WA	Comments/ Observations  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  20.4  20.5  20.5  20.5  TYPICAL A (8260) (8010 (8270D) (PA (COD) (TOO (Total Cyanical colors))	Cond. (uS/cm)  1873  1883  1882  1885  1881  NALYSIS AI (D) (8020) (N AH) (NWTPH (ctivity) (TD) (C) (Total PO-4 (le) (WAD Cy	D.O. (mg/L)  1.58  1.59  1.57  1.57  1.58  LLOWED PERMYPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Freedwanide) (Freedwanide) (Freedwanide) (Freedwanide) (Freedwanide) (Freedwanide)	6.17 6.17 6.17 6.17 6.17 6.19 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) Ddahl Nitroger Cyanide)	ORP (mV)  -94.8  -94.8  -94.8  -94.8  -94.8  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity a) (NH3) (NO3)	DDOR Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)	DTW (ft)  non-standard and rease) CI) (SO4) (NO	Ferrous iron (Fe II)  malysis below)  WA  WA  WA  O  WA   WA	Comments/ Observations  OR □ OR □
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  20.4  20.5  20.5  20.5  TYPICAL A  (8260) (8010 (8270D) (PA (COD) (Total Cyanid (Total Metals	Cond. (uS/cm)  1873  1883  1882  1885  1881  NALYSIS AI (D) (8020) (NAH) (NWTPHactivity) (TD: (C) (Total POde) (WAD Cyallow) (As) (Sb) (	D.O. (mg/L)  1.58  1.59  1.57  1.58  LLOWED PF (WTPH-G) (NWTH-S) (TSS) (E4) (Total Kiewanide) (Free Ba) (Be) (Canada (	6.17 6.17 6.17 6.17 6.17 6.17 6.19 ER BOTTLE (NWTPH-Gx.) (TPH-Dx.)	. SLIGHT BAD CORP (mV) -94.8 -94.8 -94.8 -94.8 -94.8 -94.8 -10 (BTEX) -11 (BTEX) -12 (BTEX) -13 (BTEX) -14 (BTEX) -14 (BTEX) -15 (BTEX) -16 (BTEX) -17 (BTEX) -17 (BTEX) -18 (BTEX) -19 (BT	DDOR Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard at rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  malysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR □ OR □
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  20.4  20.5  20.5  20.5  TYPICAL A  (8260) (8010 (8270D) (PA (COD) (Total Cyanid (Total Metals	Cond. (uS/cm)  1873  1883  1882  1885  1881  NALYSIS AI  (NWTPHetivity) (TDS) (C) (Total PO-Colle) (WAD Cyc) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L)  1.58  1.59  1.57  1.58  LLOWED PF (WTPH-G) (NWTH-S) (TSS) (E4) (Total Kiewanide) (Free Ba) (Be) (Canada (	6.17 6.17 6.17 6.17 6.17 6.17 6.19 ER BOTTLE (NWTPH-Gx.) (TPH-Dx.)	. SLIGHT BAD CORP (mV) -94.8 -94.8 -94.8 -94.8 -94.8 -94.8 -10 (BTEX) -11 (BTEX) -12 (BTEX) -13 (BTEX) -14 (BTEX) -14 (BTEX) -15 (BTEX) -16 (BTEX) -17 (BTEX) -17 (BTEX) -18 (BTEX) -19 (BT	DDOR Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard at rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  malysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 20.4 20.5 20.5 20.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  1873  1883  1882  1885  1881  NALYSIS AI  (NWTPHetivity) (TDS) (C) (Total PO-Colle) (WAD Cyc) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L)  1.58  1.59  1.57  1.57  1.58  LLOWED PI WTPH-G) (NWTI S) (TSS) (E 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.17 6.17 6.17 6.17 6.17 6.17 6.19 ER BOTTLE (NWTPH-Gx.) (TPH-Dx.)	. SLIGHT BAD CORP (mV) -94.8 -94.8 -94.8 -94.8 -94.8 -94.8 -10 (BTEX) -11 (BTEX) -12 (BTEX) -13 (BTEX) -14 (BTEX) -14 (BTEX) -15 (BTEX) -16 (BTEX) -17 (BTEX) -17 (BTEX) -18 (BTEX) -19 (BT	DDOR Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (iv/NO2)  (Pb) (Mg) (Mn) (	non-standard at rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  malysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 20.4 20.5 20.5 20.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  1873  1883  1882  1885  1881  NALYSIS AI (D) (8020) (N AH) (NWTPHetrivity) (TD: (C) (Total PO- (de) (WAD Cy (de) (AS) (Sb) (etals) (As) (Sb) (geshort list)	D.O. (mg/L)  1.58  1.59  1.57  1.57  1.58  LLOWED PI WTPH-G) (NWTI S) (TSS) (E 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.17 6.17 6.17 6.17 6.17 6.17 6.19 ER BOTTLE (NWTPH-Gx.) (TPH-Dx.)	. SLIGHT BAD CORP (mV) -94.8 -94.8 -94.8 -94.8 -94.8 -94.8 -10 (BTEX) -11 (BTEX) -12 (BTEX) -13 (BTEX) -14 (BTEX) -14 (BTEX) -15 (BTEX) -16 (BTEX) -17 (BTEX) -17 (BTEX) -18 (BTEX) -19 (BT	DDOR Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (iv/NO2)  (Pb) (Mg) (Mn) (	non-standard at rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  malysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 20.4 20.4 20.5 20.5 20.5 TYPICAL A (8260) (8010 (8270D) (PA (COD) (Total Cyanical Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  1873  1883  1882  1885  1881  NALYSIS AI (D) (8020) (N AH) (NWTPHetrivity) (TD: (C) (Total PO- (de) (WAD Cy (de) (AS) (Sb) (etals) (As) (Sb) (geshort list)	D.O. (mg/L)  1.58  1.59  1.57  1.57  1.58  LLOWED PI WTPH-G) (NWTI S) (TSS) (E 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.17 6.17 6.17 6.17 6.17 6.17 6.19 ER BOTTLE (NWTPH-Gx.) (TPH-Dx.)	. SLIGHT BAD CORP (mV) -94.8 -94.8 -94.8 -94.8 -94.8 -94.8 -10 (BTEX) -11 (BTEX) -12 (BTEX) -13 (BTEX) -14 (BTEX) -14 (BTEX) -15 (BTEX) -16 (BTEX) -17 (BTEX) -17 (BTEX) -18 (BTEX) -19 (BT	DDOR Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (iv/NO2)  (Pb) (Mg) (Mn) (	non-standard at rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  malysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 20.4 20.5 20.5 20.5 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  1873  1883  1882  1885  1881  NALYSIS AI (D) (8020) (N AH) (NWTPHetrivity) (TD: (C) (Total PO- (de) (WAD Cy (de) (AS) (Sb) (etals) (As) (Sb) (geshort list)	D.O. (mg/L)  1.58  1.59  1.57  1.57  1.58  LLOWED PI WTPH-G) (NWTI S) (TSS) (E 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.17 6.17 6.17 6.17 6.17 6.17 6.19 ER BOTTLE (NWTPH-Gx.) (TPH-Dx.)	. SLIGHT BAD CORP (mV) -94.8 -94.8 -94.8 -94.8 -94.8 -94.8 -10 (BTEX) -11 (BTEX) -12 (BTEX) -13 (BTEX) -14 (BTEX) -14 (BTEX) -15 (BTEX) -16 (BTEX) -17 (BTEX) -17 (BTEX) -18 (BTEX) -19 (BT	DDOR Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (iv/NO2)  (Pb) (Mg) (Mn) (	non-standard at rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  malysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 20.4 20.4 20.5 20.5 20.5 TYPICAL A (8260) (8010 (8270D) (PA (COD) (Total Cyanical Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  1873  1883  1882  1885  1881  NALYSIS AI (D) (8020) (N AH) (NWTPHetrivity) (TD: (C) (Total PO- (de) (WAD Cy (de) (AS) (Sb) (etals) (As) (Sb) (geshort list)	D.O. (mg/L)  1.58  1.59  1.57  1.57  1.58  LLOWED PI WTPH-G) (NWTI S) (TSS) (E 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.17 6.17 6.17 6.17 6.17 6.17 6.19 ER BOTTLE (NWTPH-Gx.) (TPH-Dx.)	. SLIGHT BAD CORP (mV) -94.8 -94.8 -94.8 -94.8 -94.8 -94.8 -10 (BTEX) -11 (BTEX) -12 (BTEX) -13 (BTEX) -14 (BTEX) -14 (BTEX) -15 (BTEX) -16 (BTEX) -17 (BTEX) -17 (BTEX) -18 (BTEX) -19 (BT	DDOR Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (iv/NO2)  (Pb) (Mg) (Mn) (	non-standard at rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  malysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 20.4 20.4 20.5 20.5 20.5  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  1873  1883  1882  1885  1881  NALYSIS AI  (NWTPHetivity) (TDS) (C) (Total PO-C) (E) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)  nane Ethene Ac	D.O. (mg/L)  1.58  1.59  1.57  1.57  1.58  LLOWED PH WTPH-G) (NWTH S) (TSS) (E 4) (Total Kie vanide) (Free Ba) (Be) (Ca c) (Ba) (Be) (Ca cetylene	6.17 6.17 6.17 6.17 6.17 6.17 6.19 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbic Edahl Nitroger Cyanide) (Cd) (Co) (Ca) (Cd) (Co)	ORP (mV)  -94.8  -94.8  -94.8  -94.8  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity n) (NH3) (NO3) (Cr) (Cu) (Fe) (Cr) (Cu) (Fe) (P	pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (Ni)  (b) (Mg) (Mn) (Ni)	non-standard and rease) CI) (SO4) (NO Ni) (Ag) (Se) ((Ag) (Se) (TI) (V	Ferrous iron (Fe II)  nalysis below)  WA   WA   D3) (NO2) (F)  T1) (V) (Zn) (H  (Zn) (Hg) (K) (	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2021		_	Date/Time:	2/ 17 /2021@	1050		
Sample Num	nber:	RGW014S-	210217		Weather:	INDOORS			
Landau Repr	resentative:	BXM			•				
WATER LEV	/EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES	)	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	4.98	Time:	- '	Flow through ce			GW Meter No.(s	SLOPE 8
	Date/Time:		1023	End Purge:	_	2/ 17 /2021 @	1045	Gallons Purged:	
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
	, ,	, ,	. 0 /	ers for three	. ,	lings within the fo	. ,	>/= 1 flow	obser various
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1026	18.9	603	0.80	6.18	-5.3		5.10		
1029	18.7	592	0.73	6.21	-10.5		5.12		
1032	18.5	581	0.75	6.22	-13.5		5.13		
1035	18.3	572	0.80	6.22	-15.4		-		-
1038	18.3	571	0.85	6.25	-17.5				
	. ———						-		
1041	18.2	570	0.90	6.26	-18.7				
1044	18.2	571	0.95	6.27	-20.0				
								·	
SAMPLE CO									
Sample Colle	cted With:		Bailer	_		DED BLADDER			
Made of:	<u> </u>	Stainless Ste	el 📕	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica		Other							
Sample Descr	ription (color,	turbidity, odoi	, sheen, etc.):	CLEAR, CO	LORLESS, NO C	DOR, NO SHEEN			
Replicate									
•	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Ferrous iron	Comments/
	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
1				<b>рН</b> 6.28		•			
1 2	(°F/°C)	(uS/cm)	(mg/L)	•	(mV)	•			
2	(°F/°C)  18.2  18.2	(uS/cm) 571 572	(mg/L) 0.96 0.99	6.28	(mV) -20.2 -20.4	•			
2	(°F/°C)  18.2  18.2  18.2	(uS/cm) 571 572 572	0.96 0.99 0.99	6.28 6.28 6.28	(mV) -20.2 -20.4 -20.7	•			
2 3 4	(°F/°C)  18.2  18.2  18.2  18.1	571 572 572 572	0.96 0.99 0.99 0.99	6.28 6.28 6.28	-20.2 -20.4 -20.7 -20.9	•			
2	(°F/°C)  18.2  18.2  18.2	(uS/cm) 571 572 572	0.96 0.99 0.99	6.28 6.28 6.28	(mV) -20.2 -20.4 -20.7	•			
2 3 4 Average:	(°F/°C)  18.2  18.2  18.2  18.1  18.2  TYPICAL A	(uS/cm) 571 572 572 572 572 572 572 NALYSIS AI	(mg/L)  0.96  0.99  0.99  0.99  0.98  LLOWED PE	6.28 6.28 6.28 6.28 6.28	-20.2 -20.4 -20.7 -20.9 -20.6 TYPE (Circle a)	•	(ft)	(Fe II)	
2 3 4 Average:	18.2 18.2 18.2 18.1 18.2 TYPICAL A (8260) (8010	(uS/cm) 571 572 572 572 572 572 NALYSIS AI 0) (8020) (N	0.96 0.99 0.99 0.99 0.98 LLOWED PE	6.28 6.28 6.28 6.28 6.28 R BOTTLE	(mV) -20.2 -20.4 -20.7 -20.9 -20.6 TYPE (Circle approximately) (BTEX)	(NTU)	(ft)	nalysis below)	Observations  OR
2 3 4 Average:	18.2 18.2 18.2 18.1 18.2 18.1 18.2 TYPICAL A (8260) (8010 (8270D) (PA	(uS/cm) 571 572 572 572 572 572 NALYSIS AI 0) (8020) (N	0.96 0.99 0.99 0.99 0.98 LLOWED PE	6.28 6.28 6.28 6.28 6.28 RESTREAM FOR HOTTLE	(mV) -20.2 -20.4 -20.7 -20.9 -20.6  TYPE (Circle aportion (BTEX)) H-HCID) (8081)	Oplicable or write	non-standard a	nalysis below) WA  WA  WA	Observations
2 3 4 Average:  QUANTITY 3	18.2 18.2 18.2 18.1 18.2 18.1 18.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	(uS/cm) 571 572 572 572 572 572 NALYSIS AI 0) (8020) (N AH) (NWTPH ctivity) (TD	0.96 0.99 0.99 0.99 0.98 LLOWED PERMYPH-G) (NWTF	6.28 6.28 6.28 6.28 6.28 6.28 RBOTTLE NWTPH-Gx PH-Dx) (TPF	-20.2 -20.4 -20.7 -20.9 -20.6  TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity	oplicable or write  (8141) (Oil & G ) (HCO3/CO3) (	non-standard a	nalysis below) WA  WA  WA	Observations  OR
2 3 4 Average:	18.2 18.2 18.2 18.1 18.2 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction) (TOO	(uS/cm) 571 572 572 572 572 NALYSIS AI (0) (8020) (N CH) (NWTPI (netivity) (TD (C) (Total PO-	0.96 0.99 0.99 0.99 0.98 LLOWED PERMITPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (TSS) (TSS) (Bd) (Total Kie	6.28 6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-Gx; PH-Dx) (TPFI OD) (Turbidahl Nitroger	(mV) -20.2 -20.4 -20.7 -20.9 -20.6  TYPE (Circle aportion (BTEX)) H-HCID) (8081)	oplicable or write  (8141) (Oil & G ) (HCO3/CO3) (	non-standard a	nalysis below) WA  WA  WA	Observations  OR
2 3 4 Average:  QUANTITY 3	18.2 18.2 18.2 18.2 18.1 18.2  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Too	(uS/cm) 571 572 572 572 572 NALYSIS AI 0) (8020) (N AH) (NWTPI detivity) (TD (C) (Total PO-	0.96 0.99 0.99 0.98  LLOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie	6.28 6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-GX, PH-DX) (TPH-OD) (Turbidahl Nitroger Cyanide)	(mV) -20.2 -20.4 -20.7 -20.9 -20.6  TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity h) (NH3) (NO3)	(NTU)  oplicable or write  (8141) (Oil & G (HCO3/CO3) (e	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  ON  WA  WA  WA  WA  WA  WA  WA  WA  WA  W	Observations  OR  OR  OR
2 3 4 Average:  QUANTITY 3	18.2 18.2 18.2 18.1 18.2 18.1 18.2  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	(uS/cm) 571 572 572 572 572 NALYSIS AI (ii) (8020) (N iii) (NWTPI ictivity) (TD (iii) (Total PO- ic) (Total PO- ic) (As) (Sb) (	0.96 0.99 0.99 0.98  LLOWED PERMYPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (TSS) (Bd) (Total Kiewanide) (Free Ba) (Be) (Ca	6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-Gx PH-Dx) (TPH OD) (Turbit dahl Nitroger Cyanide) () (Cd) (Co)	(mV)  -20.2  -20.4  -20.7  -20.9  -20.6  TYPE (Circle a)  (BTEX)  H-HCID) (8081) dity) (Alkalinity) (i) (NH3) (NO3) (Cr) (Cu) (Fe)	(NTU)  Oplicable or write  (8141) (Oil & G) (HCO3/CO3) (eNO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	nalysis below) WA  WA  OB ON	Observations  OR  OR  OR
2 3 4 Average:  QUANTITY 3	18.2 18.2 18.2 18.1 18.2 18.1 18.2  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	(uS/cm) 571 572 572 572 572 NALYSIS AI () (8020) (N AH) (NWTPI () (Total PO- () (Total PO- () (AS) (Sb) ((etals) (As) (Sb)	0.96 0.99 0.99 0.98  LLOWED PERMYPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (TSS) (Bd) (Total Kiewanide) (Free Ba) (Be) (Ca	6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-Gx PH-Dx) (TPH OD) (Turbit dahl Nitroger Cyanide) () (Cd) (Co)	(mV)  -20.2  -20.4  -20.7  -20.9  -20.6  TYPE (Circle a)  (BTEX)  H-HCID) (8081) dity) (Alkalinity) (i) (NH3) (NO3) (Cr) (Cu) (Fe)	(NTU)  Oplicable or write  (8141) (Oil & G) (HCO3/CO3) (eNO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	nalysis below) WA  WA  OB ON	Observations  OR  OR  OR  OR  Graph  Graph
2 3 4 Average:  QUANTITY 3	18.2  18.2  18.2  18.1  18.2  TYPICAL A  (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	(uS/cm) 571 572 572 572 572 NALYSIS AI () (8020) (N AH) (NWTPI () (Total PO- () (Total PO- () (AS) (Sb) ((etals) (As) (Sb)	(mg/L)  0.96  0.99  0.99  0.98  LLOWED PF  WTPH-G) (NWTP  H-D) (NWTP  S) (TSS) (B  4) (Total Kie vanide) (Free  Ba) (Be) (Ca  b) (Ba) (Be) (Ca	6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-Gx PH-Dx) (TPH OD) (Turbit dahl Nitroger Cyanide) () (Cd) (Co)	(mV)  -20.2  -20.4  -20.7  -20.9  -20.6  TYPE (Circle a)  (BTEX)  H-HCID) (8081) dity) (Alkalinity) (i) (NH3) (NO3) (Cr) (Cu) (Fe)	(NTU)  Oplicable or write  (8141) (Oil & G) (HCO3/CO3) (eNO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	nalysis below) WA  WA  OB ON	Observations  OR  OR  OR  OR  Graph  Graph
2 3 4 Average:  QUANTITY 3	18.2  18.2  18.2  18.1  18.2  TYPICAL A  (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	(uS/cm) 571 572 572 572 572 NALYSIS AI (D) (8020) (N AH) (NWTPI (Inctivity) (TD (C) (Total PO- (e) (WAD Cy (dot) (As) (Sb) (etals) (As) (Sl) (g short list)	(mg/L)  0.96  0.99  0.99  0.98  LLOWED PF  WTPH-G) (NWTP  H-D) (NWTP  S) (TSS) (B  4) (Total Kie vanide) (Free  Ba) (Be) (Ca  b) (Ba) (Be) (Ca	6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-Gx PH-Dx) (TPH OD) (Turbit dahl Nitroger Cyanide) () (Cd) (Co)	(mV)  -20.2  -20.4  -20.7  -20.9  -20.6  TYPE (Circle a)  (BTEX)  H-HCID) (8081) dity) (Alkalinity) (i) (NH3) (NO3) (Cr) (Cu) (Fe)	(NTU)  Oplicable or write  (8141) (Oil & G) (HCO3/CO3) (eNO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	nalysis below) WA  WA  OB ON	Observations  OR  OR  OR  OR  Graph  Graph
2 3 4 Average:  QUANTITY 3	18.2  18.2  18.2  18.1  18.2  TYPICAL A  (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	(uS/cm) 571 572 572 572 572 NALYSIS AI (D) (8020) (N AH) (NWTPI (Inctivity) (TD (C) (Total PO- (e) (WAD Cy (dot) (As) (Sb) (etals) (As) (Sl) (g short list)	(mg/L)  0.96  0.99  0.99  0.98  LLOWED PF  WTPH-G) (NWTP  H-D) (NWTP  S) (TSS) (B  4) (Total Kie vanide) (Free  Ba) (Be) (Ca  b) (Ba) (Be) (Ca	6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-Gx PH-Dx) (TPH OD) (Turbit dahl Nitroger Cyanide) () (Cd) (Co)	(mV)  -20.2  -20.4  -20.7  -20.9  -20.6  TYPE (Circle a)  (BTEX)  H-HCID) (8081) dity) (Alkalinity) (i) (NH3) (NO3) (Cr) (Cu) (Fe)	(NTU)  Oplicable or write  (8141) (Oil & G) (HCO3/CO3) (eNO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	nalysis below) WA  WA  OB ON	Observations  OR  OR  OR  OR  Graph  Graph
2 3 4 Average:  QUANTITY 3	18.2  18.2  18.2  18.1  18.2  TYPICAL A  (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	(uS/cm) 571 572 572 572 572 NALYSIS AI (D) (8020) (N AH) (NWTPI (Inctivity) (TD (C) (Total PO- (e) (WAD Cy (dot) (As) (Sb) (etals) (As) (Sl) (g short list)	(mg/L)  0.96  0.99  0.99  0.98  LLOWED PF  WTPH-G) (NWTP  H-D) (NWTP  S) (TSS) (B  4) (Total Kie vanide) (Free  Ba) (Be) (Ca  b) (Ba) (Be) (Ca	6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-Gx PH-Dx) (TPH OD) (Turbit dahl Nitroger Cyanide) () (Cd) (Co)	(mV)  -20.2  -20.4  -20.7  -20.9  -20.6  TYPE (Circle a)  (BTEX)  H-HCID) (8081) dity) (Alkalinity) (i) (NH3) (NO3) (Cr) (Cu) (Fe)	(NTU)  Oplicable or write  (8141) (Oil & G) (HCO3/CO3) (eNO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	nalysis below) WA  WA  OB ON	Observations  OR  OR  OR  OR  Graph  Graph
2 3 4 Average:  QUANTITY 3	(°F/°C)  18.2  18.2  18.2  18.1  18.2  TYPICAL A  (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	(uS/cm) 571 572 572 572 572 NALYSIS AI 0) (8020) (N AH) (NWTPI netivity) (TD C) (Total PO- le) (WAD C) 0) (As) (Sb) (letals) (As) (Sl) g short list) ane Ethene A	(mg/L)  0.96  0.99  0.99  0.98  LLOWED PF  WTPH-G) (NWTP  H-D) (NWTP  S) (TSS) (B  4) (Total Kie vanide) (Free  Ba) (Be) (Ca  b) (Ba) (Be) (Ca	6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-Gx PH-Dx) (TPH OD) (Turbit dahl Nitroger Cyanide) () (Cd) (Co)	(mV)  -20.2  -20.4  -20.7  -20.9  -20.6  TYPE (Circle a)  (BTEX)  H-HCID) (8081) dity) (Alkalinity) (i) (NH3) (NO3) (Cr) (Cu) (Fe)	(NTU)  Oplicable or write  (8141) (Oil & G) (HCO3/CO3) (eNO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	nalysis below) WA  WA  OB ON	Observations  OR  OR  OR  OR  Graph  Graph
2 3 4 Average:  QUANTITY 3	(°F/°C)  18.2  18.2  18.2  18.1  18.2  TYPICAL A  (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	(uS/cm) 571 572 572 572 572 NALYSIS AI 0) (8020) (N AH) (NWTPI netivity) (TD C) (Total PO- le) (WAD C) 0) (As) (Sb) (letals) (As) (Sl) g short list) ane Ethene A	(mg/L)  0.96  0.99  0.99  0.98  LLOWED PE WTPH-G) (NWTF S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Co	6.28 6.28 6.28 6.28 CR BOTTLE NWTPH-Gx PH-Dx) (TPH OD) (Turbit dahl Nitroger Cyanide) () (Cd) (Co)	(mV)  -20.2  -20.4  -20.7  -20.9  -20.6  TYPE (Circle a)  (BTEX)  H-HCID) (8081) dity) (Alkalinity) (i) (NH3) (NO3) (Cr) (Cu) (Fe)	(NTU)  Oplicable or write  (8141) (Oil & G) (HCO3/CO3) (eNO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	nalysis below) WA  WA  OB ON	Observations  OR  OR  OR  OR  Graph  Graph



Event:  Sample Number: Landau Representation:  WATER LEVEL/WE Well Condition:  DTW Before Purging Begin Purge: Date/ Purge water disposed  Ten Time (°F/ Purg +/-	Secure (YE: (ft) 4.98 Time: 2/ 17/202: to:	S) Da	amaged (NC	Weather:	2/ 17 /2021@ INDOORS  Describe:	1130 FLUSH		
WATER LEVEL/WE Well Condition: DTW Before Purging Begin Purge: Date/ Purge water disposed Time (°F/ Purg	ELL/PURGE DATA Secure (YE. (ft) 4.98 Time: 2/ 17/202	Time:	amaged (NC		Describe:	FLUSH		
WATER LEVEL/WE Well Condition: DTW Before Purging Begin Purge: Date/ Purge water disposed Ten Time (°F/ Purg	Secure (YE: (ft) 4.98 Time: 2/ 17/202: to:	Time:	1022			FLUSH		
Well Condition:  DTW Before Purging Begin Purge: Date/ Purge water disposed  Ten Time (°F/ Purg	Secure (YE) (ft) 4.98 Fime: 2/ 17/202 to:	Time:	1022			FLUSH		
Well Condition:  DTW Before Purging Begin Purge: Date/ Purge water disposed  Ten Time (°F/ Purg	Secure (YE) (ft) 4.98 Fime: 2/ 17/202 to:	Time:	1022			FLUSH		
Begin Purge: Date/ Purge water disposed  Time (°F/ Purg	(ft) 4.98 Time: 2/ 17/202 to:	Time: 1023 En	1022			-		
Begin Purge: Date/ Purge water disposed  Time (°F/ Purg	Time: 2/ 17/2021 to:	1 1023 E1			vOI.		GW Meter No.(s	SLOPE 8
Purge water disposed  Tel Time (°F/	to:	-	na ruige:	Date/Time:	2/ 17 /2021 @	1045	Gallons Purged:	
Ten Time (°F/	_	33-9ai Drum	Ě	Storage Tank	Ground		SITE TREATM	
Time (°F/	np Cond.		_	-	_	_	-	
Purg	°C) (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
+/	e Goals: Stablizati	` 0 /	s for three o	. ,	· /	. ,	>/= 1 flow	Observations
	3% +/- 3%	+/- 10% +/-	- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
	- DU	PLICA	TE T	O RGW	√014S			
		<del></del>						
SAMPLE COLLECT	TON DATA							
Sample Collected Wi	th:	Bailer	P	Pump/Pump Type	DED BLADDER			
Made of:	Stainless Sta	eel 🔲 PV	VC	Teflon	Polyethylene	Other	Dedicated	
Decon Procedure:	Alconox Wa	ash 🔲 Ta	ap Rinse	DI Water	Dedicated			
(By Numerical Order	) Dther							
Sample Description (	color, turbidity, odo	r, sheen, etc.): CI	LEAR, COI	LORLESS, NO O	DOR, NO SHEEN			
Replicate Ter		D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTII)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
`	, , ,		6.20	` /	(1(10)	(11)	(1 ( 11)	Observations
<del></del>	<del></del>							
2	18.2 572	0.99	6.28	-20.5				
3	18.1 572	0.98	6.28	-20.9				
4	18.2 572	0.98	6.28	-21.1				
Average:	18.2 572	0.98	6.28	-20.7				
OHANTITY TYPIC	AL AMALWOIG A	I I OWED DED	POTTI E	TVDF (Circle cor	nliaahla aui-	non standard	nalveie hala)	
-					meanie or write i	uon-stanuaru ai		OR 🗆
	() (PAH) (NWTP				(8141) (Oil & G	rease)	WA 🗆	OR 🗆
	Conductivity) (TE							
u , .	(TOC) (Total PC	/ ` / `		• / . • /			, ( , ( ,	
(Total C	Cyanide) (WAD C	yanide) (Free Cy	yanide)	· · · · · · · · · · · · · · · · · · ·				
· · · · · · · · · · · · · · · · · · ·	Metals) (As) (Sb)			(Cr) (Cu) (Fe) (J	Pb) (Mg) (Mn) (1	Ni) (Ag) (Se)	Tl) (V) (Zn) (H	g) (K) (Na)
(Total )	ved Metals) (As) (S	b) (Ba) (Be) (Ca)	(Cd) (Co) (	(Cr) (Cu) (Fe) (Pb	) (Mg) (Mn) (Ni) (	(Ag) (Se) (Tl) (V	(Zn) $(Hg)$ $(K)$ $(K)$	Na) (Hardness) (Si
1								
(Dissol	(Boeing short list)							
(Dissol VOC	(Boeing short list) ne Ethane Ethene A	cetylene						
(Dissol VOC		cetylene						
(Dissol VOC Metha		cetylene						
(Dissol VOC		cetylene						
(Dissol VOC Metha others	ne Ethane Ethene A							
(Dissol VOC Metha	ne Ethane Ethene A							
1 2 3 4 Average:  QUANTITY TYPIC 3 (8260)	18.2 572 18.2 572 18.1 572 18.2 572 18.2 572 18.2 572 18.2 572 2AL ANALYSIS A (8010) (8020) (	(mg/L) 0.97 0.99 0.98 0.98 0.98 LLOWED PER NWTPH-G) (NV	6.28 6.28 6.28 6.28 6.28 BOTTLE T	-20.4 -20.5 -20.9 -21.1 -20.7 TYPE (Circle app (BTEX)	(NTU)	(ft)	(Fe II)	Observati



Project Nam	ie <u>:</u>	Boeing Ren	ton		Project Number	:	0025217.099.0	99	
Event:		Feb. 2021			Date/Time:	2/15/2021@	1521		
Sample Nun	nber:	RGW031S-	210215		Weather:	CLOUDY			
Landau Rep	resentative:	JAN			_				
WATERIES	VEL/WELL/PU	IDCE DATA							
Well Condition		Secure (YES)	`	Damaged (N	(0)	Dagariba	FLUSHMOUN	I <b>T</b>	
		` '	,	- ,			TLUSTIMOUN		
DTW Before		5.24	Time:		Flow through cel			GW Meter No.(s	
		2/15/2021 @		End Purge:		2/15/2021 @		Gallons Purged:	0.2:
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
	_					lings within the fol	~	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1500	11.7	454.6	0.86	6.63	-89.3		5.27		
1503	10.6	424.5	0.93	6.61	-98.2		5.27		
1506		389.4	1.00	6.55	-97.5		5.27	· <del></del>	
							3.21	. ———	
1509	9.4	381.0	0.97	6.49	-94.3			· <del></del>	
1512	9.3	376.5	1.01	6.45	-91.8				
1515									
1517									
	LLECTION D								
Sample Colle	ected With:		Bailer		Pump/Pump Type	DED. BLADDER		. <u></u>	
Made of:		Stainless Stee	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee	dure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	al Order)	Other			_				
	,	ш оттег							
			, sheen, etc.):	NO COLOR	, LOW TURB, NO	D/NS.			
			, sheen, etc.):	NO COLOR	, LOW TURB, NO	D/NS.			
	ription (color, t	turbidity, odor	D.O.	NO COLOR	ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr	ription (color, t	turbidity, odor	· · · · · · · · · · · · · · · · · · ·				DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	ription (color, t	turbidity, odor	D.O.		ORP	Turbidity			
Sample Desci	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity			
Replicate  1 2	Temp (°F/°C) 9.3	Cond. (uS/cm)  376.4  376.2	D.O. (mg/L) 1.01	pH 6.45 6.44	ORP (mV) -91.5	Turbidity			
Replicate  1 2 3	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	<b>рН</b> 6.45	ORP (mV)	Turbidity			
Replicate  1 2	Temp (°F/°C) 9.3	Cond. (uS/cm)  376.4  376.2	D.O. (mg/L) 1.01	pH 6.45 6.44	ORP (mV) -91.5	Turbidity			
Replicate  1 2 3	Temp (°F/°C) 9.3 9.3 9.3	Cond. (uS/cm)  376.4  376.2  374.9	D.O. (mg/L) 1.01 1.01	pH  6.45  6.44  6.44	ORP (mV) -91.5 -91.4	Turbidity			
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.3 9.3 9.3 9.3	Cond. (uS/cm)  376.4  376.2  374.9  375.2	D.O. (mg/L) 1.01 1.01 1.02 1.02	6.45 6.44 6.44 6.44	ORP (mV) -91.5 -91.4 -91.5 -91.6	Turbidity (NTU)	(ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.3 9.3 9.3 9.3 144 144 145 145 145 145 145 145 145 145	Cond. (uS/cm) 376.4 376.2 374.9 375.2 375.7	D.O. (mg/L) 1.01 1.01 1.02 1.02	6.45 6.44 6.44 6.44 6.44	ORP (mV) -91.5 -91.4 -91.5 -91.6 -91.5 TYPE (Circle ap	Turbidity (NTU)	(ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.3 9.3 9.3 9.3 9.3 19.3 19.3 (8260) (8010	Cond. (uS/cm)  376.4  376.2  374.9  375.2  375.7  NALYSIS AI  () (8020) (N	D.O. (mg/L)  1.01  1.01  1.02  1.01  LOWED PERWYPH-G) (	6.45 6.44 6.44 6.44 6.44 CER BOTTLE	ORP (mV) -91.5 -91.4 -91.5 -91.6 -91.5 TYPE (Circle apple) (BTEX)	Turbidity (NTU)  #DIV/0!  splicable or write i	(ft)	nalysis below)	Observations  OR   OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.3 9.3 9.3 9.3 9.3 1TYPICAL A (8260) (8010 (8270) (PAH	Cond. (uS/cm)  376.4  376.2  374.9  375.2  375.7  NALYSIS AL  0) (8020) (N	D.O. (mg/L)  1.01  1.01  1.02  1.01  LOWED PF	6.45 6.44 6.44 6.44 6.44 ER BOTTLE (NWTPH-GX)	ORP (mV)  -91.5  -91.4  -91.5  -91.6  -91.5  TYPE (Circle ap (BTEX))  HCID) (8081) (	#DIV/0!	(ft)	nalysis below) WA  WA  WA	Observations
Replicate  Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  TYPICAL A  (8260) (8010 (8270) (PAH (pH) (Condu	Cond. (uS/cm) 376.4 376.2 374.9 375.2 375.7  NALYSIS AL 0) (8020) (N I) (NWTPH-Inctivity) (TDS	D.O. (mg/L)  1.01  1.01  1.02  1.01  1.02  1.01  1.02  1.01  I.OS (MYTPH-G)	6.45 6.44 6.44 6.44 6.44 ER BOTTLE (NWTPH-Gx I-Dx) (TPH-GOD) (Turbi	ORP (mV)  -91.5  -91.4  -91.5  -91.6  -91.5  TYPE (Circle ap (BTEX)  HCID) (8081) (dity) (Alkalinity)	#DIV/0! pplicable or write 1 (HCO3/CO3) (C	(ft)	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.3  9.3  9.3  9.3  7YPICAL A (8260) (8010 (8270) (PAE (pH) (Condu	Cond. (uS/cm)  376.4  376.2  374.9  375.2  375.7  NALYSIS AI  (D) (8020) (N  H) (NWTPH-Inctivity) (TDS  (C) (Total PO4	D.O. (mg/L)  1.01  1.01  1.02  1.01  1.02  1.01  1.02  1.01  LOWED PF IWTPH-G) ( D) (NWTPH S) (TSS) (E	6.45 6.44 6.44 6.44 6.44 CR BOTTLE (NWTPH-Gx I-Dx) (TPH-BOD) (Turbiodahl Nitroger	ORP (mV)  -91.5  -91.4  -91.5  -91.6  -91.5  TYPE (Circle ap (BTEX))  HCID) (8081) (	#DIV/0! pplicable or write 1 (HCO3/CO3) (C	(ft)	nalysis below) WA  WA  WA	Observations OR
Replicate  Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  9.3  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu	Cond. (uS/cm)  376.4  376.2  374.9  375.2  375.7  NALYSIS AI  (D) (8020) (N  II) (NWTPH-lactivity) (TDS  C) (Total PO4  de) (WAD Cy	D.O. (mg/L)  1.01  1.01  1.02  1.01  1.02  1.01  LOWED PF  [WTPH-G) ( D) (NWTPH-G) ( S) (TSS) (E 4) (Total Kie ranide) (Free	pH  6.45  6.44  6.44  6.44  ER BOTTLE (NWTPH-Gx I-Dx) (TPH-GOD) (Turbickled) (Turbickled) (Turbickled)	ORP (mV)  -91.5  -91.4  -91.5  -91.6  -91.5  TYPE (Circle ap () (BTEX)  HCID) (8081) (dity) (Alkalinity)  (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  pplicable or write in the interpretation of the	non-standard anase)	malysis below) WA  WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR  OR  OR
Replicate  Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  9.3  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Too (Total Cyanid (Total Metals)	Cond. (uS/cm)  376.4  376.2  374.9  375.2  375.7  NALYSIS AI  (D) (8020) (NI) (NWTPH-lactivity) (TDS  (C) (Total PO4)  (de) (WAD Cy (de) (AS) (Sb) (1)	D.O. (mg/L)  1.01  1.01  1.02  1.01  1.02  1.01  LOWED PF [WTPH-G] ( D) (NWTPH-G) ( S) (TSS) (E 4) (Total Kieranide) (Free Ba) (Be) (Ca	pH  6.45  6.44  6.44  6.44  6.44  ER BOTTLE (NWTPH-Gx I-Dx) (TPH-GX I-Dx) (TUrbick) (Indicated Nitrogeneral Cyanide) (Cyanide) (Cyanide)	ORP (mV)  -91.5  -91.4  -91.5  -91.6  -91.5  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity)  (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  #B141) (Oil & Great (HCO3/CO3) (CNO2)	non-standard and asse) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  Graph  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm)  376.4  376.2  374.9  375.2  375.7  NALYSIS AI  0) (8020) (N  H) (NWTPH-lectivity) (TDS  C) (Total PO4  le) (WAD Cy  ) (As) (Sb) (letals) (As) (Sb) (Sb)	D.O. (mg/L)  1.01  1.01  1.02  1.01  1.02  1.01  LOWED PF [WTPH-G] ( D) (NWTPH-G) ( S) (TSS) (E 4) (Total Kieranide) (Free Ba) (Be) (Ca	pH  6.45  6.44  6.44  6.44  6.44  ER BOTTLE (NWTPH-Gx I-Dx) (TPH-GX I-Dx) (TUrbick) (Indicated Nitrogeneral Cyanide) (Cyanide) (Cyanide)	ORP (mV)  -91.5  -91.4  -91.5  -91.6  -91.5  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity)  (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  #B141) (Oil & Great (HCO3/CO3) (CNO2)	non-standard and asse) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  Graph  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M-	Cond. (uS/cm)  376.4  376.2  374.9  375.2  375.7  NALYSIS AI  (D) (8020) (N  (H) (NWTPH-I  (Intervity) (TDS  (C) (Total PO4  (le) (WAD Cy  (MA) (Sb) (I  (etals) (As) (Sb)  (g short list)	D.O. (mg/L)  1.01  1.01  1.02  1.01  1.02  1.01  LOWED PERMYPH-G) (CONTENT	pH  6.45  6.44  6.44  6.44  6.44  ER BOTTLE (NWTPH-Gx I-Dx) (TPH-GX I-Dx) (TUrbick) (Indicated Nitrogeneral Cyanide) (Cyanide) (Cyanide)	ORP (mV)  -91.5  -91.4  -91.5  -91.6  -91.5  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity)  (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  #B141) (Oil & Great (HCO3/CO3) (CNO2)	non-standard and asse) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  Graph  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M-	Cond. (uS/cm)  376.4  376.2  374.9  375.2  375.7  NALYSIS AI  0) (8020) (N  H) (NWTPH-lectivity) (TDS  C) (Total PO4  le) (WAD Cy  ) (As) (Sb) (letals) (As) (Sb) (Sb)	D.O. (mg/L)  1.01  1.01  1.02  1.01  1.02  1.01  LOWED PERMYPH-G) (CONTENT	pH  6.45  6.44  6.44  6.44  6.44  ER BOTTLE (NWTPH-Gx I-Dx) (TPH-GX I-Dx) (TUrbick) (Indicated Nitrogeneral Cyanide) (Cyanide) (Cyanide)	ORP (mV)  -91.5  -91.4  -91.5  -91.6  -91.5  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity)  (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  #B141) (Oil & Great (HCO3/CO3) (CNO2)	non-standard and asse) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  Graph  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M-	Cond. (uS/cm)  376.4  376.2  374.9  375.2  375.7  NALYSIS AI  (D) (8020) (N  (H) (NWTPH-I  (Intervity) (TDS  (C) (Total PO4  (le) (WAD Cy  (MA) (Sb) (I  (etals) (As) (Sb)  (g short list)	D.O. (mg/L)  1.01  1.01  1.02  1.01  1.02  1.01  LOWED PERMYPH-G) (CONTENT	pH  6.45  6.44  6.44  6.44  6.44  ER BOTTLE (NWTPH-Gx I-Dx) (TPH-GX I-Dx) (TUrbick) (Indicated Nitrogeneral Cyanide) (Cyanide) (Cyanide)	ORP (mV)  -91.5  -91.4  -91.5  -91.6  -91.5  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity)  (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  #B141) (Oil & Great (HCO3/CO3) (CNO2)	non-standard and asse) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  Graph  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  376.4  376.2  374.9  375.2  375.7  NALYSIS AI  (D) (8020) (N  (H) (NWTPH-I  (Intervity) (TDS  (C) (Total PO4  (le) (WAD Cy  (MA) (Sb) (I  (etals) (As) (Sb)  (g short list)	D.O. (mg/L)  1.01  1.01  1.02  1.01  1.02  1.01  LOWED PERMYPH-G) (CONTENT	pH  6.45  6.44  6.44  6.44  6.44  ER BOTTLE (NWTPH-Gx I-Dx) (TPH-GX I-Dx) (TUrbick) (Indicated Nitrogeneral Cyanide) (Cyanide) (Cyanide)	ORP (mV)  -91.5  -91.4  -91.5  -91.6  -91.5  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity)  (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  #B141) (Oil & Great (HCO3/CO3) (CNO2)	non-standard and asse) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR   g) (K) (Na)
Replicate  Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M-	Cond. (uS/cm)  376.4  376.2  374.9  375.2  375.7  NALYSIS AI  (D) (8020) (N  (H) (NWTPH-I  (Intervity) (TDS  (C) (Total PO4  (le) (WAD Cy  (MA) (Sb) (I  (etals) (As) (Sb)  (g short list)	D.O. (mg/L)  1.01  1.01  1.02  1.01  1.02  1.01  LOWED PERMYPH-G) (CONTENT	pH  6.45  6.44  6.44  6.44  6.44  ER BOTTLE (NWTPH-Gx I-Dx) (TPH-GX I-Dx) (TUrbick) (Indicated Nitrogeneral Cyanide) (Cyanide) (Cyanide)	ORP (mV)  -91.5  -91.4  -91.5  -91.6  -91.5  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity)  (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  #B141) (Oil & Great (HCO3/CO3) (CNO2)	non-standard and asse) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  Graph  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm)  376.4  376.2  374.9  375.2  375.7  NALYSIS AL  (b) (8020) (N  (c) (Total PO4  (le) (WAD Cy  (le) (WAD Cy  (le) (As) (Sb) (le  (tals) (As) (Sb  g short list)  (tane Ethene Ac	D.O. (mg/L)  1.01  1.01  1.02  1.01  1.02  1.01  LOWED PF  IWTPH-G) ( D) (NWTPH-GS) (TSS) (ES) (TSS) (ES)  (Free Ba) (Be) (Ca)  (O) (Ba) (Be) (Ca)  (O) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH  6.45  6.44  6.44  6.44  6.44  ER BOTTLE (NWTPH-Gx  I-Dx) (TPH-Gx  GDD) (Turbick) (	ORP (mV)  -91.5  -91.4  -91.5  -91.6  -91.5  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity)  (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  #B141) (Oil & Great (HCO3/CO3) (CNO2)	non-standard and asse) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  Graph  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm)  376.4  376.2  374.9  375.2  375.7  NALYSIS AI  (D) (8020) (N  (H) (NWTPH-I  (Intervity) (TDS  (C) (Total PO4  (le) (WAD Cy  (MA) (Sb) (I  (etals) (As) (Sb)  (g short list)	D.O. (mg/L)  1.01  1.01  1.02  1.01  1.02  1.01  LOWED PF  IWTPH-G) ( D) (NWTPH-GS) (TSS) (ES) (TSS) (ES)  (Free Ba) (Be) (Ca)  (O) (Ba) (Be) (Ca)  (O) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH  6.45  6.44  6.44  6.44  6.44  ER BOTTLE (NWTPH-Gx  I-Dx) (TPH-Gx  GDD) (Turbick) (	ORP (mV)  -91.5  -91.4  -91.5  -91.6  -91.5  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity)  (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  #B141) (Oil & Great (HCO3/CO3) (CNO2)	non-standard and asse) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M. VOC (Boein Methane Eth	Cond. (uS/cm)  376.4  376.2  374.9  375.2  375.7  NALYSIS AL  (b) (8020) (N  (c) (Total PO4  (le) (WAD Cy  (le) (WAD Cy  (le) (As) (Sb) (le  (tals) (As) (Sb  g short list)  (tane Ethene Ac	D.O. (mg/L)  1.01  1.01  1.02  1.01  1.02  1.01  LOWED PF  IWTPH-G) ( D) (NWTPH-GS) (TSS) (ES) (TSS) (ES)  (Free Ba) (Be) (Ca)  (O) (Ba) (Be) (Ca)  (O) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH  6.45  6.44  6.44  6.44  6.44  ER BOTTLE (NWTPH-Gx  I-Dx) (TPH-Gx  GDD) (Turbick) (	ORP (mV)  -91.5  -91.4  -91.5  -91.6  -91.5  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity)  (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  #B141) (Oil & Great (HCO3/CO3) (CNO2)	non-standard and asse) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  Graph  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Nam	ne:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	199	
Event:		Feb. 2021			Date/Time:	2/15/2021@	910		
Sample Nur	nber:	RGWDUP2	210215		Weather:	CLOUDY			
Landau Rep	resentative:	JAN							
WATERIE	VEL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES	)	Damaged (N	[0)	Describe:	FLUSHMOUN	JT	
		Secure (TES		Damaged (1			TEOSITIVOOT		. 11
DTW Before		2/15/2021 @	Time:	F. 1 D.	Flow through ce			GW Meter No.(	
		2/15/2021 @		End Purge:		2/15/2021 @		Gallons Purged:	0.25
Purge water of	disposed to:		55-gal Drum	Ш	Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	ana Can 4h na a	(mV)	(NTU)	(ft)	Volume (gal)	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	lings within the fol +/- 10%	< 0.3 ft	>/= 1 flow through cell	
								. ———	
		DIII		TT T		V/021C			
		ַ עַ		<u> </u>	O RGV	WU313			
SAMPLE CO	DLLECTION I	DATA							
Sample Colle	ected With:		Bailer		Pump/Pump Type	DED. BLADDER			
Made of:		Stainless Stee	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee	dure:	Alconox Was	sh 🗖	Tap Rinse	DI Water	Dedicated	_	_	
(By Numerica		Other	···	rup runse	□ 21 ·······				
(-)									
Sample Desc	rintion (color	-	sheen etc.):	NO COLOR	LOW TURB N	O/NS			
Sample Desc	ription (color,	-	, sheen, etc.):	NO COLOR	, LOW TURB, N	O/NS.			
Sample Desc Replicate	ription (color,	-	, sheen, etc.):	NO COLOR	, LOW TURB, N	O/NS.  Turbidity	DTW	Ferrous iron	Comments/
		turbidity, odor					DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
	Тетр	turbidity, odor	D.O.		ORP	Turbidity			
Replicate	Temp (°F/°C)	Cond. (uS/cm) 375.0	D.O. (mg/L)	<b>рН</b> 6.44	ORP (mV)	Turbidity			
Replicate  1 2	Temp (°F/°C) 9.3	Cond. (uS/cm) 375.0 374.8	D.O. (mg/L) 1.03	pH 6.44 6.43	ORP (mV) -91.4 -91.5	Turbidity			
Replicate	Temp (°F/°C)	Cond. (uS/cm) 375.0	D.O. (mg/L)	<b>рН</b> 6.44	ORP (mV)	Turbidity			
Replicate  1 2	Temp (°F/°C) 9.3	Cond. (uS/cm) 375.0 374.8	D.O. (mg/L) 1.03	pH 6.44 6.43	ORP (mV) -91.4 -91.5	Turbidity			
Replicate  1 2 3	Temp (°F/°C) 9.3 9.3	Cond. (uS/cm)  375.0  374.8  374.5	D.O. (mg/L) 1.03 1.01	pH 6.44 6.43 6.44	ORP (mV) -91.4 -91.5 -91.6	Turbidity			
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.3 9.3 9.3 9.3	Cond. (uS/cm)  375.0  374.8  374.5  374.3	D.O. (mg/L)  1.03  1.01  1.02  1.02	pH  6.44  6.43  6.44  6.43	ORP (mV) -91.4 -91.5 -91.6 -91.5	Turbidity (NTU)  #DIV/0!	(ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.3 9.3 9.3 9.3 7 TYPICAL A	Cond. (uS/cm) 375.0 374.8 374.5 374.3 374.7	D.O. (mg/L) 1.03 1.01 1.02 1.02 1.02	pH  6.44  6.43  6.44  6.43  6.44  ER BOTTLE	ORP (mV) -91.4 -91.5 -91.6 -91.6 -91.5 TYPE (Circle a)	Turbidity (NTU)	(ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.3 9.3 9.3 9.3 7 TYPICAL A (8260) (8010	Cond. (uS/cm) 375.0 374.8 374.5 374.3 374.7 NALYSIS AI	D.O. (mg/L)  1.03  1.01  1.02  1.02  1.02  1.02  LOWED PE	pH  6.44  6.43  6.44  6.43  6.44  ER BOTTLE  NWTPH-Gx	ORP (mV) -91.4 -91.5 -91.6 -91.6 -91.5 TYPE (Circle a) (BTEX)	Turbidity (NTU)  #DIV/0!	(ft)	nalysis below)	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.3 9.3 9.3 9.3 7 TYPICAL A (8260) (8010 (8270) (PAF	Cond. (uS/cm)  375.0  374.8  374.5  374.3  374.7  NALYSIS AI  0) (8020) (NH) (NWTPH-I	D.O. (mg/L)  1.03  1.01  1.02  1.02  1.02  1.02  LOWED PE WTPH-G) ( D) (NWTPH	6.44 6.43 6.44 6.43 6.44 ER BOTTLE NWTPH-GX	ORP (mV)  -91.4  -91.5  -91.6  -91.5  TYPE (Circle a) (BTEX)  HCID) (8081)	#DIV/0!	(ft)	nalysis below) WA  WA  WA	Observations
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  7 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu	Cond. (uS/cm)  375.0  374.8  374.5  374.3  374.7  NALYSIS AI  0) (8020) (N H) (NWTPH-Inctivity) (TDS)	D.O. (mg/L)  1.03  1.01  1.02  1.02  1.02  1.02  1.09  LOWED PE  WTPH-G) ( D) (NWTPH  S) (TSS) (B	6.44 6.43 6.44 6.43 6.44 ER BOTTLE NWTPH-Gx I-Dx) (TPH-GOD) (Turbi	ORP (mV)  -91.4  -91.5  -91.6  -91.5  TYPE (Circle a) (BTEX)  HCID) (8081) dity) (Alkalinity	#DIV/0! pplicable or write in (8141) (Oil & Green) (HCO3/CO3) (O	(ft)	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.3  9.3  9.3  9.3  7TYPICAL A (8260) (8010 (8270) (PAF (pH) (Conduction) (COD) (TOO	Cond. (uS/cm)  375.0  374.8  374.5  374.3  374.7  NALYSIS AI  0) (8020) (N  H) (NWTPH-Intertivity) (TDS  C) (Total PO4	D.O. (mg/L)  1.03  1.01  1.02  1.02  1.02  1.02  LOWED PERWIPH-G) ( D) (NWTPH S) (TSS) (B) (Total Kie	pH  6.44  6.43  6.44  6.43  6.44  CR BOTTLE  NWTPH-Gx  I-Dx) (TPH-  BOD) (Turbidahl Nitroger	ORP (mV)  -91.4  -91.5  -91.6  -91.5  TYPE (Circle a) (BTEX)  HCID) (8081)	#DIV/0! pplicable or write in (8141) (Oil & Green) (HCO3/CO3) (O	(ft)	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Conduction (COD) (Tool (Cod))	Cond. (uS/cm)  375.0  374.8  374.5  374.3  374.7  NALYSIS AI  0) (8020) (N H) (NWTPH-Inctivity) (TDS	D.O. (mg/L)  1.03  1.01  1.02  1.02  1.02  1.02  LOWED PF WTPH-G) ( D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free	pH  6.44  6.43  6.44  6.43  6.44  CR BOTTLE  NWTPH-Gx  I-Dx) (TPH-GOD) (Turbidahl Nitroger  Cyanide)	ORP (mV)  -91.4  -91.5  -91.6  -91.6  -91.5  TYPE (Circle a) (BTEX)  HCID) (8081) dity) (Alkalinity (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write in the interval of the in	non-standard a	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
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Tood (Total Cyanic	Cond. (uS/cm)  375.0  374.8  374.5  374.7  NALYSIS AI  0) (8020) (N H) (NWTPH-lectivity) (TDS  C) (Total PO4  de) (WAD Cy ) (As) (Sb) (	D.O. (mg/L)  1.03  1.01  1.02  1.02  1.02  1.02  1.02  I.OVED PE  WTPH-G) ( D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca	pH  6.44  6.43  6.44  6.43  6.44  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH-  BOD) (Turbit dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -91.4  -91.5  -91.6  -91.6  -91.5  TYPE (Circle a) (BTEX)  HCID) (8081) dity) (Alkalinity h) (NH3) (NO3	#DIV/0!  #DIV/0!  pplicable or write in the interval of the in	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M	Cond. (uS/cm)  375.0  374.8  374.5  374.3  374.7  NALYSIS AI  0) (8020) (N H) (NWTPH-lectivity) (TDS C) (Total PO4 de) (WAD Cy de) (As) (Sb) (Setals) (As) (Sb) (Setals) (As) (Sb) (Setals) (As) (Sb)	D.O. (mg/L)  1.03  1.01  1.02  1.02  1.02  1.02  1.02  I.OVED PE  WTPH-G) ( D) (NWTPH S) (TSS) (B H) (Total Kie anide) (Free Ba) (Be) (Ca	pH  6.44  6.43  6.44  6.43  6.44  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH-  BOD) (Turbit dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -91.4  -91.5  -91.6  -91.6  -91.5  TYPE (Circle a) (BTEX)  HCID) (8081) dity) (Alkalinity h) (NH3) (NO3	#DIV/0!  #DIV/0!  pplicable or write in the interval of the in	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  9.3  7TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Tool (Total Cyanic (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 375.0 374.8 374.5 374.3 374.7 NALYSIS AI (0) (8020) (N H) (NWTPH-Inctivity) (TDS (C) (Total PO4 de) (WAD Cy (D) (As) (Sb) (detals) (As) (Sb) (geshort list)	D.O. (mg/L)  1.03  1.01  1.02  1.02  1.02  1.02  1.02  1.05  LOWED PERMITH-G) (CD) (NWTPH-G) (Free Ba) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ba) (Be) (Ca)	pH  6.44  6.43  6.44  6.43  6.44  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH-  BOD) (Turbit dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -91.4  -91.5  -91.6  -91.6  -91.5  TYPE (Circle a) (BTEX)  HCID) (8081) dity) (Alkalinity h) (NH3) (NO3	#DIV/0!  #DIV/0!  pplicable or write in the interval of the in	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  9.3  7TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Tool (Total Cyanic (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  375.0  374.8  374.5  374.3  374.7  NALYSIS AI  0) (8020) (N H) (NWTPH-lectivity) (TDS C) (Total PO4 de) (WAD Cy de) (As) (Sb) (Setals) (As) (Sb) (Setals) (As) (Sb) (Setals) (As) (Sb)	D.O. (mg/L)  1.03  1.01  1.02  1.02  1.02  1.02  1.02  1.05  LOWED PERMITH-G) (CD) (NWTPH-G) (Free Ba) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ba) (Be) (Ca)	pH  6.44  6.43  6.44  6.43  6.44  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH-  BOD) (Turbit dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -91.4  -91.5  -91.6  -91.6  -91.5  TYPE (Circle a) (BTEX)  HCID) (8081) dity) (Alkalinity h) (NH3) (NO3	#DIV/0!  #DIV/0!  pplicable or write in the interval of the in	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  9.3  7TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Tool (Total Cyanic (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 375.0 374.8 374.5 374.3 374.7 NALYSIS AI (0) (8020) (N H) (NWTPH-Inctivity) (TDS (C) (Total PO4 de) (WAD Cy (D) (As) (Sb) (detals) (As) (Sb) (geshort list)	D.O. (mg/L)  1.03  1.01  1.02  1.02  1.02  1.02  1.02  1.05  LOWED PERMITH-G) (CD) (NWTPH-G) (Free Ba) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ba) (Be) (Ca)	pH  6.44  6.43  6.44  6.43  6.44  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH-  BOD) (Turbit dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -91.4  -91.5  -91.6  -91.6  -91.5  TYPE (Circle a) (BTEX)  HCID) (8081) dity) (Alkalinity h) (NH3) (NO3	#DIV/0!  #DIV/0!  pplicable or write in the interval of the in	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 375.0 374.8 374.5 374.3 374.7 NALYSIS AI (0) (8020) (N H) (NWTPH-Inctivity) (TDS (C) (Total PO4 de) (WAD Cy (D) (As) (Sb) (detals) (As) (Sb) (geshort list)	D.O. (mg/L)  1.03  1.01  1.02  1.02  1.02  1.02  1.02  1.05  LOWED PERMITH-G) (CD) (NWTPH-G) (Free Ba) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ba) (Be) (Ca)	pH  6.44  6.43  6.44  6.43  6.44  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH-  BOD) (Turbit dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -91.4  -91.5  -91.6  -91.6  -91.5  TYPE (Circle a) (BTEX)  HCID) (8081) dity) (Alkalinity h) (NH3) (NO3	#DIV/0!  #DIV/0!  pplicable or write in the interval of the in	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  9.3  7TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Tool (Total Cyanic (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 375.0 374.8 374.5 374.3 374.7 NALYSIS AI (0) (8020) (N H) (NWTPH-Inctivity) (TDS (C) (Total PO4 de) (WAD Cy (D) (As) (Sb) (detals) (As) (Sb) (geshort list)	D.O. (mg/L)  1.03  1.01  1.02  1.02  1.02  1.02  1.02  1.05  LOWED PERMITH-G) (CD) (NWTPH-G) (Free Ba) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ba) (Be) (Ca)	pH  6.44  6.43  6.44  6.43  6.44  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH-  BOD) (Turbit dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -91.4  -91.5  -91.6  -91.6  -91.5  TYPE (Circle a) (BTEX)  HCID) (8081) dity) (Alkalinity h) (NH3) (NO3	#DIV/0!  #DIV/0!  pplicable or write in the interval of the in	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 375.0 374.8 374.5 374.3 374.7 NALYSIS AI (0) (8020) (N H) (NWTPH-Inctivity) (TDS (C) (Total PO4 de) (WAD Cy (D) (As) (Sb) (detals) (As) (Sb) (geshort list)	D.O. (mg/L)  1.03  1.01  1.02  1.02  1.02  1.02  1.02  1.02  1.05  D) (NWTPH-G) (D) (NWTPH-G) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH  6.44  6.43  6.44  6.43  6.44  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH-  BOD) (Turbit dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -91.4  -91.5  -91.6  -91.6  -91.5  TYPE (Circle a) (BTEX)  HCID) (8081) dity) (Alkalinity (N)	#DIV/0!  #DIV/0!  pplicable or write in the interval of the in	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  375.0  374.8  374.5  374.3  374.7  NALYSIS AI  0) (8020) (Note of the content of	D.O. (mg/L)  1.03  1.01  1.02  1.02  1.02  1.02  1.02  1.02  1.05  D) (NWTPH-G) (D) (NWTPH-G) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH  6.44  6.43  6.44  6.43  6.44  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH-  BOD) (Turbit dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -91.4  -91.5  -91.6  -91.6  -91.5  TYPE (Circle a) (BTEX)  HCID) (8081) dity) (Alkalinity (N)	#DIV/0!  #DIV/0!  pplicable or write in the interval of the in	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.3  9.3  9.3  9.3  7 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  375.0  374.8  374.5  374.3  374.7  NALYSIS AI  0) (8020) (Note of the content of	D.O. (mg/L)  1.03  1.01  1.02  1.02  1.02  1.02  1.02  1.02  1.05  D) (NWTPH-G) (D) (NWTPH-G) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH  6.44  6.43  6.44  6.43  6.44  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH-  BOD) (Turbit dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -91.4  -91.5  -91.6  -91.6  -91.5  TYPE (Circle a) (BTEX)  HCID) (8081) dity) (Alkalinity (N)	#DIV/0!  #DIV/0!  pplicable or write in the interval of the in	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	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:		Feb. 2021			Date/Time:	2/ 16 /2021@	1410		
Sample Num	ıber:	RGW033S-	210216		Weather:	PARTLY CLOU	JDY, 40S		
Landau Repr	resentative:	BXM							
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Conditio	n:	Secure (YES	)	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	5.34	Time:	1340	Flow through ce	ll vol.		GW Meter No.(s	s SLOPE 8
Begin Purge:	Date/Time:	2/ 16 /2021	1344	End Purge:	Date/Time:	2/ 16/2021@	1406	Gallons Purged:	<1
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)	pii	(mV)	(NTU)	(ft)	Volume (gal)	Observations
	_					lings within the fo	~	>/= 1 flow	
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1347	13.4	377.9	0.15	6.09	27.0		5.38		
1350	12.3	384.0	0.31	6.10	15.2		5.38		
1353	11.6	383.4	0.34	6.11	9.9		5.36		
1356	11.1	381.8	0.39	6.09	5.6				
1359	10.7	379.4	0.47	6.12	1.0				
1402	10.4	376.1	0.51	6.12	-1.0				
1405	10.2	373.3	0.57	6.14	-2.8			· <del></del>	
1403	10.2	3/3.3	0.37	0.14	-2.8			· <del></del>	
SAMPLE CO	LIECTIONE	NATA							
Sample Collect			Bailer		Pumn/Pumn Tyne	DED BLADDER			
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Was	_	Tap Rinse	DI Water	Dedicated		Dealeanea	
			sii <u></u>	rap Kinse	□ Di Water	Dedicated			
	l Order)	□ Other							
(By Numerical		Other	· sheen etc.):	CLEAR CO	LORLESS NO.	DOR NO SHEEN	SOME LIGHT	SMALL SOLID	S
		_	, sheen, etc.):	CLEAR, CO	LORLESS, NO C	DOR, NO SHEEN	I, SOME LIGHT	SMALL SOLID	S
		_	D.O. (mg/L)	CLEAR, CO	ORP (mV)	DDOR, NO SHEEN  Turbidity  (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	iption (color, t	turbidity, odor	D.O.		ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr Replicate	Temp (°F/°C) 10.1	Cond. (uS/cm)  373.1  373.0	D.O. (mg/L) 0.58	<b>рН</b> 6.16 6.13	ORP (mV) -3.1 -3.3	Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3	Temp (°F/°C) 10.1 10.2	Cond. (uS/cm)  373.1  373.0  372.9	D.O. (mg/L) 0.58 0.57	<b>pH</b> 6.16 6.13 6.16	ORP (mV) -3.1 -3.3	Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3 4	Temp (°F/°C) 10.1 10.2 10.2	Cond. (uS/cm)  373.1  373.0  372.9	D.O. (mg/L) 0.58 0.57 0.57	pH 6.16 6.13 6.16 6.13	ORP (mV) -3.1 -3.3 -3.5 -3.6	Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3 4 Average:	Temp (°F/°C) 10.1 10.2 10.2 10.2	Cond. (uS/cm)  373.1  373.0  372.9  372.7	D.O. (mg/L)  0.58  0.57  0.57  0.57	pH  6.16  6.13  6.16  6.13	ORP (mV)  -3.1  -3.3  -3.5  -3.6  -3.4	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate  1 2 3 4 Average:	Temp (°F/°C) 10.1 10.2 10.2 10.2 TYPICAL A	Cond. (uS/cm) 373.1 373.0 372.9 372.7 372.9	D.O. (mg/L) 0.58 0.57 0.57 0.57	6.16 6.13 6.16 6.13 6.15 CR BOTTLE	ORP (mV)  -3.1  -3.3  -3.5  -3.6  -3.4  TYPE (Circle a)	Turbidity	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 10.1 10.2 10.2 10.2 10.2 TYPICAL A (8260) (8010	Cond. (uS/cm) 373.1 373.0 372.9 372.7 372.9 NALYSIS AI	D.O. (mg/L)  0.58  0.57  0.57  0.57  0.57  LOWED PE	6.16 6.13 6.16 6.13 6.15 CR BOTTLE NWTPH-GX	ORP (mV)  -3.1  -3.3  -3.5  -3.6  -3.4  TYPE (Circle apo) (BTEX)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)  nalysis below)	Comments/ Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 10.1 10.2 10.2 10.2 10.2 TYPICAL A (8260) (8010 (8270) (PAF	Cond. (uS/cm)  373.1  373.0  372.9  372.7  372.9  NALYSIS AI  0) (8020) (NI) (NWTPH-	D.O. (mg/L)  0.58  0.57  0.57  0.57  0.57  LLOWED PERMYPH-G) ( D) (NWTPH	pH  6.16 6.13 6.16 6.13 6.15 CR BOTTLE NWTPH-GX,	ORP (mV)  -3.1  -3.3  -3.5  -3.6  -3.4  TYPE (Circle a)  (BTEX)  HCID) (8081)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Comments/ Observations
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C) 10.1 10.2 10.2 10.2 10.2 10.2 10.2 (8260) (8010 (8270) (PAH (pH) (Condu	Cond. (uS/cm)  373.1  373.0  372.9  372.7  372.9  NALYSIS AI  0) (8020) (N  I) (NWTPH-  lectivity) (TD)	D.O. (mg/L)  0.58  0.57  0.57  0.57  0.57  CLOWED PERWYPH-G) (MWTPH-G) (MWTP	6.16 6.13 6.16 6.13 6.15 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-OD) (Turbio	ORP (mV)  -3.1  -3.3  -3.5  -3.6  -3.4  TYPE (Circle a) (BTEX)  HCID) (8081) dity) (Alkalinity	Turbidity (NTU)  pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (6	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Comments/ Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.1  10.2  10.2  10.2  10.2  10.2  10.4  (8260) (8010 (8270) (PAH (pH) (Conduction) (COD) (TOO	Cond. (uS/cm)  373.1  373.0  372.9  372.7  372.9  NALYSIS AI  (D) (8020) (NI) (NWTPH-  detivity) (TD:  (C) (Total PO-	D.O. (mg/L)  0.58  0.57  0.57  0.57  0.57  LLOWED PERMYPH-G) ( D) (NWTPH S) (TSS) (B	6.16 6.13 6.16 6.13 6.15 CR BOTTLE NWTPH-Gx 1-Dx) (TPH- OD) (Turbio dahl Nitroger	ORP (mV)  -3.1  -3.3  -3.5  -3.6  -3.4  TYPE (Circle a)  (BTEX)  HCID) (8081)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gree) (HCO3/CO3) (6	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Comments/ Observations  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.1  10.2  10.2  10.2  10.2  10.2  (8260) (8010 (8270) (PAH (pH) (COD) (Total Cyanida	Cond. (uS/cm)  373.1  373.0  372.9  372.7  372.9  NALYSIS AI  (D) (8020) (NI) (NWTPH-  (ctivity) (TD:  (C) (Total PO-  (e) (WAD Cy	D.O. (mg/L)  0.58  0.57  0.57  0.57  0.57  LLOWED PF  WTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free	pH  6.16 6.13 6.16 6.13 6.15 CR BOTTLE NWTPH-Gx, 1-Dx) (TPH- OD) (Turbie dahl Nitroger Cyanide)	ORP (mV)  -3.1  -3.3  -3.5  -3.6  -3.4  TYPE (Circle a) (BTEX)  HCID) (8081)  dity) (Alkalinity) a) (NH3) (NO3.	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre (HCO3/CO3) (0/NO2)	DTW (ft)  non-standard a ase) CI) (SO4) (NO	ralysis 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 □
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.1  10.2  10.2  10.2  10.2  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  373.1  373.0  372.9  372.7  372.9  NALYSIS AI  (I) (8020) (NI) (NWTPH- (Ictivity) (TD: (C) (Total PO- (le) (WAD Cy () (As) (Sb) (	D.O. (mg/L)  0.58  0.57  0.57  0.57  0.57  CLOWED PERMYPH-G) (MWTPH-G) (MWTP	pH  6.16  6.13  6.16  6.13  6.15  CR BOTTLE  NWTPH-GX  (I-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide)  a) (Cd) (Co)	ORP (mV)  -3.1  -3.3  -3.5  -3.6  -3.4  TYPE (Circle application of the company o	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  ase) Cl) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR □ OR □
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.1  10.2  10.2  10.2  10.2  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 373.1 373.0 372.9 372.7 372.9 NALYSIS AI () (8020) (N I) (NWTPH- (ctivity) (TD(C)) (Total PO- (ctivity) (As) (Sb) ((etals) (As) (Sb) ((ctals) (As) ((ctals) ((c	D.O. (mg/L)  0.58  0.57  0.57  0.57  0.57  CLOWED PERMYPH-G) (MWTPH-G) (MWTP	pH  6.16  6.13  6.16  6.13  6.15  CR BOTTLE  NWTPH-GX  (I-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide)  a) (Cd) (Co)	ORP (mV)  -3.1  -3.3  -3.5  -3.6  -3.4  TYPE (Circle application of the company o	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  ase) Cl) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.1  10.2  10.2  10.2  10.2  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 373.1 373.0 372.9 372.7 372.9 NALYSIS AI () (8020) (N I) (NWTPH- (ctivity) (TD(C)) (Total PO- (ctivity) (As) (Sb) ((etals) (As) (Sb) ((ctals) (As) ((ctals) ((c	D.O. (mg/L)  0.58  0.57  0.57  0.57  0.57  0.57  CLOWED PERMYPH-G) (Manual Permission (Precedure Permission (P	pH  6.16  6.13  6.16  6.13  6.15  CR BOTTLE  NWTPH-GX  (I-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide)  a) (Cd) (Co)	ORP (mV)  -3.1  -3.3  -3.5  -3.6  -3.4  TYPE (Circle application of the company o	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  ase) Cl) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.1  10.2  10.2  10.2  10.2  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  373.1  373.0  372.9  372.7  372.9  NALYSIS AI  (I) (NWTPH-activity) (TD: CD) (Total PO-de) (WAD Cy) (I) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.58  0.57  0.57  0.57  0.57  0.57  CLOWED PERMYPH-G) (Manual Permission (Precedure Permission (P	pH  6.16  6.13  6.16  6.13  6.15  CR BOTTLE  NWTPH-GX  (I-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide)  a) (Cd) (Co)	ORP (mV)  -3.1  -3.3  -3.5  -3.6  -3.4  TYPE (Circle application of the company o	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  ase) Cl) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.1  10.2  10.2  10.2  10.2  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  373.1  373.0  372.9  372.7  372.9  NALYSIS AI  (I) (NWTPH-activity) (TD: CD) (Total PO-de) (WAD Cy) (I) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.58  0.57  0.57  0.57  0.57  0.57  CLOWED PERMYPH-G) (Manual Permission (Precedure Permission (P	pH  6.16  6.13  6.16  6.13  6.15  CR BOTTLE  NWTPH-GX  (I-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide)  a) (Cd) (Co)	ORP (mV)  -3.1  -3.3  -3.5  -3.6  -3.4  TYPE (Circle application of the company o	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  ase) Cl) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.1  10.2  10.2  10.2  10.2  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  373.1  373.0  372.9  372.7  372.9  NALYSIS AI  (I) (NWTPH-activity) (TD: CD) (Total PO-de) (WAD Cy) (I) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.58  0.57  0.57  0.57  0.57  0.57  CLOWED PERMYPH-G) (Manual Permission (Precedure Permission (P	pH  6.16  6.13  6.16  6.13  6.15  CR BOTTLE  NWTPH-GX  (I-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide)  a) (Cd) (Co)	ORP (mV)  -3.1  -3.3  -3.5  -3.6  -3.4  TYPE (Circle application of the company o	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  ase) Cl) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.1  10.2  10.2  10.2  10.2  10.2  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  373.1  373.0  372.9  372.7  372.9  NALYSIS AI  (I) (NWTPH-activity) (TD: CD) (Total PO-de) (WAD Cy) (I) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.58  0.57  0.57  0.57  0.57  0.57  CLOWED PERMYPH-G) (Manual Permission (Precedure Permission (P	pH  6.16  6.13  6.16  6.13  6.15  CR BOTTLE  NWTPH-GX  (I-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide)  a) (Cd) (Co)	ORP (mV)  -3.1  -3.3  -3.5  -3.6  -3.4  TYPE (Circle application of the company o	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  ase) Cl) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.1  10.2  10.2  10.2  10.2  10.2  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  373.1  373.0  372.9  372.7  372.9  NALYSIS AI  (I) (NWTPH-activity) (TD: CD) (Total PO-de) (WAD Cy) (I) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.58  0.57  0.57  0.57  0.57  0.57  CLOWED PERMYPH-G) (Manual Permission (Precedure Permission (P	pH  6.16  6.13  6.16  6.13  6.15  CR BOTTLE  NWTPH-GX  (I-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide)  a) (Cd) (Co)	ORP (mV)  -3.1  -3.3  -3.5  -3.6  -3.4  TYPE (Circle application of the company o	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  ase) Cl) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Name	e:	Boeing Ren	iton		Project Number	:	0025217.099.0	99	
Event:		Feb. 2021			Date/Time:	2/ 15 /2021@	1515		
Sample Num	nber:	RGW034S-	210215		Weather:	OVERCAST, CO	OLD, SNOW (	ON GROUND	
Landau Repr	resentative:	BXM			<del>-</del>				
WATER LEV	EL/WELL/PI	IRGE DATA							
Well Conditio		Secure (YES	5)	Damaged (N	(O)	Describe:	FLUSH		
DTW Before	Purging (ft)	5.46	Time:	- '	Flow through cel		-	GW Meter No.(s	SLOPE 8
Begin Purge:	0 0 0			End Purge:	•	2/ 15 /2021 @	1513	Gallons Purged:	
Purge water d			55-gal Drum	Ě	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
	, ,	. ,	` 0 /	ers for three		lings within the fo	. ,	>/= 1 flow	observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1454	12.2	276.1	0.16	6.31	16.8		5.46		
1457	10.7	278.1	0.29	6.34	-6.9		5.46		
1500	10.0	275.6	0.31	6.34	-10.9		5.46		
1503	9.2	270.2	0.40	6.34	-16.1				
1506	8.9	269.7	0.37	6.34	-17.6				
1509	8.5	267.2	0.39	6.34	-20.6				
1512	8.4	266.6	0.39	6.34	-21.5				
SAMPLE CO	LLECTION D								
Sample Collec	cted With:		Bailer		Pump/Pump Type		DED BLADDE	_	
Made of:		Stainless Ste	el	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	101								
(D) Trumerica	l Order)	Other							
. •		₩	r, sheen, etc.):	CLEAR, CO	LORLESS, NO C	DOR, NO SHEEN	I, TRACE DARI	K FINES	
Sample Descr	ription (color,	turbidity, odo	· · · /_	·	•				Comments
, •		₩	D.O. (mg/L)	CLEAR, CO	ORP	DOOR, NO SHEEN  Turbidity  (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	iption (color, t	turbidity, odor	D.O.	·	ORP	Turbidity	DTW	Ferrous iron	
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	<b>рН</b> 6.34	ORP (mV)	Turbidity	DTW	Ferrous iron	
Sample Descr Replicate  1 2	Temp (°F/°C) 8.4	Cond. (uS/cm)  266.6	D.O. (mg/L) 0.40	рН 6.34 6.34	ORP (mV) -21.7 -21.9	Turbidity	DTW	Ferrous iron	
Replicate  1 2 3	Temp (°F/°C) 8.4 8.3	Cond. (uS/cm)  266.6  266.5	D.O. (mg/L) 0.40 0.40	pH  6.34  6.34  6.35	ORP (mV) -21.7 -21.9 -22.0	Turbidity	DTW	Ferrous iron	
Sample Descr Replicate  1 2	Temp (°F/°C) 8.4	Cond. (uS/cm)  266.6  266.5  166.3	D.O. (mg/L) 0.40	рН 6.34 6.34	ORP (mV) -21.7 -21.9 -22.0 -22.2	Turbidity	DTW	Ferrous iron	
Replicate  1 2 3	Temp (°F/°C) 8.4 8.3	Cond. (uS/cm)  266.6  266.5	D.O. (mg/L) 0.40 0.40	pH  6.34  6.34  6.35	ORP (mV) -21.7 -21.9 -22.0	Turbidity	DTW	Ferrous iron	
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.4  8.4  8.3  8.3	Cond. (uS/cm)  266.6  266.5  166.3  266.2  241.4	D.O. (mg/L) 0.40 0.40 0.42 0.41	pH  6.34  6.34  6.35  6.34  6.34	ORP (mV)  -21.7  -21.9  -22.0  -22.2  -22.0	Turbidity	DTW (ft)	Ferrous iron (Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.4  8.4  8.3  8.3	Cond. (uS/cm)  266.6  266.5  166.3  266.2  241.4  NALYSIS Al	D.O. (mg/L) 0.40 0.40 0.42 0.41 0.41	pH  6.34  6.34  6.35  6.34  6.34  CR BOTTLE	ORP (mV)  -21.7  -21.9  -22.0  -22.2  -22.0  TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8.4 8.3 8.3 8.4 TYPICAL A (8260) (8010	Cond. (uS/cm)  266.6  266.5  166.3  266.2  241.4  NALYSIS AI  0) (8020) (N	D.O. (mg/L)  0.40  0.42  0.41  0.41  LLOWED PE	6.34 6.35 6.34 6.34 CR BOTTLE	ORP (mV)  -21.7  -21.9  -22.0  -22.2  -22.0  TYPE (Circle apple) (BTEX)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Observations
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C) 8.4 8.4 8.3 8.3 8.4 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu	Cond. (uS/cm)  266.6  266.5  166.3  266.2  241.4  NALYSIS AI (0) (8020) (N II) (NWTPH- lectivity) (TD	D.O. (mg/L)  0.40  0.42  0.41  0.41  LLOWED PENWTPH-G) (D) (NWTPHS) (B) (TSS) (B)	6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-Gx I-Dx) (TPH-GOD) (Turbic	ORP (mV)  -21.7  -21.9  -22.0  -22.2  -22.0  TYPE (Circle agor) (BTEX)  HCID) (8081) (dity) (Alkalinity)	Turbidity (NTU)  pplicable or write  8141) (Oil & Gre (HCO3/CO3) (6	DTW (ft)	Ferrous iron (Fe II)  malysis below)  WA  WA  WA	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.4  8.3  8.3  8.4  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu	Cond. (uS/cm)  266.6  266.5  166.3  266.2  241.4  NALYSIS AI (0) (8020) (NI) (NWTPH- activity) (TD	D.O. (mg/L)  0.40  0.42  0.41  0.41  LLOWED PENWTPH-G) (MOTPH-G) (	6.34 6.34 6.34 6.34 6.34 6.34 CR BOTTLE NWTPH-Gx 1-Dx) (TPH-DOD) (Turbid dahl Nitroger	ORP (mV)  -21.7  -21.9  -22.0  -22.2  -22.0  TYPE (Circle approximately 1988) (BTEX)  HCID) (8081) (	Turbidity (NTU)  pplicable or write  8141) (Oil & Gre (HCO3/CO3) (6	DTW (ft)	Ferrous iron (Fe II)  malysis below)  WA  WA  WA	Observations
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C) 8.4 8.3 8.3 8.4 TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Tool	Cond. (uS/cm)  266.6  266.5  166.3  266.2  241.4  NALYSIS AI (0) (8020) (NI) (NWTPH- activity) (TD (C) (Total PO-	D.O. (mg/L)  0.40  0.42  0.41  0.41  LLOWED PENWTPH-G) (NWTPH-S) (TSS) (B4) (Total Kievanide) (Freevanide) (Freevanide)	pH  6.34  6.34  6.35  6.34  6.34  CR BOTTLE  NWTPH-Gx  I-Dx) (TPH-IOD) (Turbid dahl Nitroger Cyanide)	ORP (mV)  -21.7  -21.9  -22.0  -22.2  -22.0  TYPE (Circle ap (BTEX)  HCID) (8081) (dity) (Alkalinity) (NH3) (NO3/	Turbidity (NTU)  pplicable or write  8141) (Oil & Gree (HCO3/CO3) (O	DTW (ft)  non-standard and assection (SO4) (NO	Ferrous iron (Fe II)  malysis below)  WA  WA  O NO2) (F)	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  8.4  8.3  8.3  8.4  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  266.6  266.5  166.3  266.2  241.4  NALYSIS AI () (8020) (NI) (NWTPH- lectivity) (TD (C) (Total PO- le) (WAD Cy () (As) (Sb) (	D.O. (mg/L)  0.40  0.40  0.41  0.41  LLOWED PENWTPH-G) (D) (NWTPHS) (TSS) (B4) (Total Kiewanide) (Free Ba) (Be) (Ca	pH  6.34  6.35  6.34  6.34  6.34  CR BOTTLE  NWTPH-GX  I-Dx) (TPH-IOD) (Turbid dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -21.7  -21.9  -22.0  -22.2  -22.0  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU)  pplicable or write  8141) (Oil & Gree (HCO3/CO3) (Oil NO2)	non-standard and asse) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  8.4  8.4  8.3  8.3  8.4  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm)  266.6  266.5  166.3  266.2  241.4  NALYSIS AI (D) (8020) (N (H) (NWTPH- ictivity) (TD (C) (Total PO- ictivity) (TD (C) (As) (Sb) (etals) (As) (Sl)	D.O. (mg/L)  0.40  0.40  0.41  0.41  LLOWED PENWTPH-G) (D) (NWTPHS) (TSS) (B4) (Total Kiewanide) (Free Ba) (Be) (Ca	pH  6.34  6.35  6.34  6.34  6.34  CR BOTTLE  NWTPH-GX  I-Dx) (TPH-IOD) (Turbid dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -21.7  -21.9  -22.0  -22.2  -22.0  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU)  pplicable or write  8141) (Oil & Gree (HCO3/CO3) (Oil NO2)	non-standard and asse) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  8.4  8.4  8.3  8.3  8.4  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  266.6  266.5  166.3  266.2  241.4  NALYSIS AI (D) (8020) (N (H) (NWTPH- ictivity) (TD (C) (Total PO- le) (WAD C) (As) (Sb) (etals) (As) (Sl)	D.O. (mg/L)  0.40  0.42  0.41  0.41  LLOWED PENWTPH-G) (MWTPH-G) (	pH  6.34  6.35  6.34  6.34  6.34  CR BOTTLE  NWTPH-GX  I-Dx) (TPH-IOD) (Turbid dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -21.7  -21.9  -22.0  -22.2  -22.0  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU)  pplicable or write  8141) (Oil & Gree (HCO3/CO3) (Oil NO2)	non-standard and asse) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  8.4  8.4  8.3  8.3  8.4  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  266.6  266.5  166.3  266.2  241.4  NALYSIS AI (INWTPH-  inctivity) (TD (I) (Total PO-  ile) (WAD Cy (I) (As) (Sb) (inctivity) (	D.O. (mg/L)  0.40  0.42  0.41  0.41  LLOWED PENWTPH-G) (MWTPH-G) (	pH  6.34  6.35  6.34  6.34  6.34  CR BOTTLE  NWTPH-GX  I-Dx) (TPH-IOD) (Turbid dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -21.7  -21.9  -22.0  -22.2  -22.0  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU)  pplicable or write  8141) (Oil & Gree (HCO3/CO3) (Oil NO2)	non-standard and asse) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  8.4  8.4  8.3  8.3  8.4  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  266.6  266.5  166.3  266.2  241.4  NALYSIS AI (INWTPH-  inctivity) (TD (I) (Total PO-  ile) (WAD Cy (I) (As) (Sb) (inctivity) (	D.O. (mg/L)  0.40  0.42  0.41  0.41  LLOWED PENWTPH-G) (MWTPH-G) (	pH  6.34  6.35  6.34  6.34  6.34  CR BOTTLE  NWTPH-GX  I-Dx) (TPH-IOD) (Turbid dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -21.7  -21.9  -22.0  -22.2  -22.0  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU)  pplicable or write  8141) (Oil & Gree (HCO3/CO3) (Oil NO2)	non-standard and asse) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  8.4  8.4  8.3  8.3  8.4  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  266.6  266.5  166.3  266.2  241.4  NALYSIS AI (INWTPH-  inctivity) (TD (I) (Total PO-  ile) (WAD Cy (I) (As) (Sb) (inctivity) (	D.O. (mg/L)  0.40  0.42  0.41  0.41  LLOWED PENWTPH-G) (MWTPH-G) (	pH  6.34  6.35  6.34  6.34  6.34  CR BOTTLE  NWTPH-GX  I-Dx) (TPH-IOD) (Turbid dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -21.7  -21.9  -22.0  -22.2  -22.0  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU)  pplicable or write  8141) (Oil & Gree (HCO3/CO3) (Oil NO2)	non-standard and asse) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  8.4  8.3  8.3  8.4  TYPICAL A (8260) (8010 (8270) (PAH (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  266.6  266.5  166.3  266.2  241.4  NALYSIS AI (INWTPH-  inctivity) (TD (I) (Total PO-  ile) (WAD Cy (I) (As) (Sb) (inctivity) (	D.O. (mg/L)  0.40  0.42  0.41  0.41  LLOWED PENWTPH-G) (MWTPH-G) (	pH  6.34  6.35  6.34  6.34  6.34  CR BOTTLE  NWTPH-GX  I-Dx) (TPH-IOD) (Turbid dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -21.7  -21.9  -22.0  -22.2  -22.0  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU)  pplicable or write  8141) (Oil & Gree (HCO3/CO3) (Oil NO2)	non-standard and asse) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  8.4  8.3  8.3  8.4  TYPICAL A (8260) (8010 (8270) (PAH (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  266.6  266.5  166.3  266.2  241.4  NALYSIS AI (INWTPH-  inctivity) (TD (I) (Total PO-  ile) (WAD Cy (I) (As) (Sb) (inctivity) (	D.O. (mg/L)  0.40  0.42  0.41  0.41  LLOWED PENWTPH-G) (MWTPH-G) (	pH  6.34  6.35  6.34  6.34  6.34  CR BOTTLE  NWTPH-GX  I-Dx) (TPH-IOD) (Turbid dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -21.7  -21.9  -22.0  -22.2  -22.0  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU)  pplicable or write  8141) (Oil & Gree (HCO3/CO3) (Oil NO2)	non-standard and asse) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  8.4  8.3  8.3  8.4  TYPICAL A (8260) (8010 (8270) (PAH (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  266.6  266.5  166.3  266.2  241.4  NALYSIS AI (INWTPH-  inctivity) (TD (I) (Total PO-  ile) (WAD Cy (I) (As) (Sb) (inctivity) (	D.O. (mg/L)  0.40  0.42  0.41  0.41  LLOWED PENWTPH-G) (MWTPH-G) (	pH  6.34  6.35  6.34  6.34  6.34  CR BOTTLE  NWTPH-GX  I-Dx) (TPH-IOD) (Turbid dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -21.7  -21.9  -22.0  -22.2  -22.0  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/	Turbidity (NTU)  pplicable or write  8141) (Oil & Gree (HCO3/CO3) (Oil NO2)  Pb) (Mg) (Mn) (Ni)  po) (Mg) (Mn) (Ni)	non-standard and asse) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Name	e:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2021			Date/Time:	2/15/2021@	1437		
Sample Num	ber:	RGW143S-	210215		Weather:	CLOUDY WITH	H SNOW ON T	THE GROUND	
Landau Repr	esentative:	AHA							
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Conditio	n:	Secure (YES	)	Damaged (N	O)	Describe:	FLUSHMOUN	NT	
DTW Before I	Purging (ft)	5.75	Time:	1409	Flow through ce	ll vol.		GW Meter No.(	s 10
Begin Purge:	Date/Time:	2/ 15/2021 @	1410	End Purge:	Date/Time:	2/15/2021 @	1430	Gallons Purged:	0.25
Purge water di	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)	pii	(mV)	(NTU)	(ft)	Volume (gal)	Observations
	_					lings within the fo	_	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1413	13.1	261.1	0.31	6.46	-90.1		5.75		
1416	13.1	260.8	0.29	6.46	-91.1		5.75		
1419	12.5	257.9	0.36	6.44	-97.1		5.75		
1422	12.1	250.6	0.37	6.42	-92.5				
1425	11.9	249.4	0.37	6.41	-91.4				
1428	12.1	248.9	0.38	6.41	-89.9				
	12.1	240.7	0.30	0.41	-07.7				
1430									
CANDIE CO	LIEGEIONE								
SAMPLE COllections Sample Collection		DATA	Bailer		Dump/Dump Trins	DED. BLADDER			
Made of:	ied willi.	Stainless Ste	_	PVC	Teflon		Other	Dedicated	
					₩	Polyethylene	□ Other	Dedicated	
Decon Proced		Alconox Wa	sh 📙	Tap Rinse	DI Water	Dedicated			
(By Numerical	ı <b>Ur</b> aeri								
Cl. D		Other	1	NO COL OB	LOW TURD NO	ODOD NO GUEE	NIDED DADTIC	N EC	
Sample Descri		_	r, sheen, etc.):	NO COLOR	LOW TURB NO	ODOR NO SHEE	N RED PARTIC	CLES	
Sample Descri		_	D.O. (mg/L)	NO COLOR	ORP (mV)	ODOR NO SHEE  Turbidity (NTU)	N RED PARTIC DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
	iption (color, t	turbidity, odor	D.O.		ORP	Turbidity	DTW	Ferrous iron	
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW	Ferrous iron	
Replicate  1 2	Temp (°F/°C) 12.1	Cond. (uS/cm) 249.2	D.O. (mg/L) 0.41 0.39	<b>pH</b> 6.39 6.40	ORP (mV) -89.9	Turbidity	DTW	Ferrous iron	
Replicate  1 2 3	Temp (°F/°C) 12.1 12.1	Cond. (uS/cm) 249.2 249.1 249.4	D.O. (mg/L) 0.41 0.39	<b>pH</b> 6.39 6.40 6.40	ORP (mV) -89.9 -89.9	Turbidity	DTW	Ferrous iron	
Replicate  1 2 3 4	Temp (°F/°C)  12.1  12.1  12.1	Cond. (uS/cm)  249.2  249.1  249.4	D.O. (mg/L) 0.41 0.39 0.40	6.39 6.40 6.41	ORP (mV) -89.9 -89.9 -89.9	Turbidity (NTU)	DTW	Ferrous iron	
Replicate  1 2 3	Temp (°F/°C) 12.1 12.1	Cond. (uS/cm) 249.2 249.1 249.4	D.O. (mg/L) 0.41 0.39	<b>pH</b> 6.39 6.40 6.40	ORP (mV) -89.9 -89.9	Turbidity	DTW	Ferrous iron	
Replicate  1 2 3 4 Average:	Temp (°F/°C)  12.1  12.1  12.1  12.1  12.1	Cond. (uS/cm) 249.2 249.1 249.4 249.1 249.2	D.O. (mg/L)  0.41  0.39  0.40  0.39	6.39 6.40 6.41 6.40	ORP (mV) -89.9 -89.9 -89.9 -89.9	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C)  12.1  12.1  12.1  12.1  12.1  TYPICAL A (8260) (8016)	Cond. (uS/cm)  249.2  249.1  249.4  249.1  249.2  NALYSIS AI  )) (8020) (N	D.O. (mg/L)  0.41  0.39  0.40  0.39  0.40  LOWED PE	6.39 6.40 6.40 6.41 6.40 CR BOTTLE NWTPH-GX	ORP (mV)  -89.9  -89.9  -89.9  -89.9  TYPE (Circle aport) (BTEX)	Turbidity (NTU)  #DIV/0!	DTW (ft)	Ferrous iron (Fe II)  nalysis below)	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  12.1  12.1  12.1  12.1  12.1  12.1  TYPICAL A  (8260) (8010) (8270) (PAF	Cond. (uS/cm) 249.2 249.1 249.4 249.1 249.2 NALYSIS AI () (8020) (N	D.O. (mg/L)  0.41  0.39  0.40  0.39  0.40  LLOWED PENTPH-G) (	6.39 6.40 6.41 6.40 6.40 ER BOTTLE NWTPH-GX	ORP (mV)  -89.9  -89.9  -89.9  -89.9  TYPE (Circle approximate) (BTEX)  HCID) (8081)	#DIV/0!  pplicable or write  (8141) (Oil & Gre	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Observations
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  12.1  12.1  12.1  12.1  12.1  TYPICAL A  (8260) (8010 (8270) (PAH  (pH) (Conductive)	Cond. (uS/cm) 249.2 249.1 249.4 249.1 249.2 NALYSIS AI 0) (8020) (N	D.O. (mg/L)  0.41  0.39  0.40  0.39  0.40  LLOWED PERWITPH-G) (MTPH-G) (MTP	6.39 6.40 6.41 6.40 6.R BOTTLE NWTPH-Gx I-Dx) (TPH-GOD) (Turbic	ORP (mV)  -89.9  -89.9  -89.9  -89.9  TYPE (Circle ap (BTEX)  HCID) (8081)  dity) (Alkalinity	#DIV/0! pplicable or write (8141) (Oil & Gre	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  12.1  12.1  12.1  12.1  12.1  (8260) (8010  (8270) (PAF  (pH) (Condu  (COD) (TOC	Cond. (uS/cm) 249.2 249.1 249.4 249.2 NALYSIS AI 0) (8020) (N I) (NWTPH- lectivity) (TD: C) (Total PO-	D.O. (mg/L)  0.41  0.39  0.40  0.39  0.40  LLOWED PERMYPH-G) ( D) (NWTPH S) (TSS) (B	6.39 6.40 6.41 6.40 CR BOTTLE NWTPH-Gx I-Dx) (TPH- BOD) (Turbidahl Nitroger	ORP (mV)  -89.9  -89.9  -89.9  -89.9  TYPE (Circle approximate) (BTEX)  HCID) (8081)	#DIV/0! pplicable or write (8141) (Oil & Gre	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  12.1  12.1  12.1  12.1  12.1  12.1  (8260) (8010 (8270) (PAF (PH) (Conduction (COD)) (Total Cyanidation (Code))	Cond. (uS/cm) 249.2 249.1 249.1 249.2 NALYSIS AI 0) (8020) (NI) (NWTPH- lettivity) (TDI C) (Total PO- le) (WAD Cy	D.O. (mg/L)  0.41  0.39  0.40  0.39  0.40  LLOWED PERMYPH-G) ( D) (NWTPH-S) (TSS) (B4) (Total Kievanide) (Freevanide) (Freevanide)	6.39 6.40 6.41 6.40 CR BOTTLE NWTPH-Gx I-Dx) (TPH- BOD) (Turbid ahl Nitroger Cyanide)	ORP (mV)  -89.9  -89.9  -89.9  -89.9  TYPE (Circle a)  O (BTEX)  HCID) (8081)  dity) (Alkalinity  O (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Green (HCO3/CO3) (Oil (MCO3)CO3)	DTW (ft)  non-standard a ase) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR □  OR □
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  12.1  12.1  12.1  12.1  12.1  12.1  (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  249.2  249.1  249.4  249.2  NALYSIS AI  () (8020) (NI) (NWTPH- lectivity) (TDel  (C) (Total PO- le) (WAD Cy  () (As) (Sb) (	D.O. (mg/L)  0.41  0.39  0.40  0.39  0.40  LLOWED PE  WTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie  vanide) (Free Ba) (Be) (Ca	6.39 6.40 6.41 6.40 ER BOTTLE NWTPH-Gx I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -89.9  -89.9  -89.9  -89.9  TYPE (Circle application of the company of	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (MO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  ase) CI) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  12.1  12.1  12.1  12.1  12.1  TYPICAL A (8260) (8010 (80270) (PAH (PH) (Conduction (COD)) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 249.2 249.1 249.4 249.1 249.2 NALYSIS AI () (8020) (N I) (NWTPH- ictivity) (TDi C) (Total PO- ic) (WAD Cy () (As) (Sb) (cetals) (As) (Sb)	D.O. (mg/L)  0.41  0.39  0.40  0.39  0.40  LLOWED PE  WTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie  vanide) (Free Ba) (Be) (Ca	6.39 6.40 6.41 6.40 ER BOTTLE NWTPH-Gx I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -89.9  -89.9  -89.9  -89.9  TYPE (Circle application of the company of	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (MO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  ase) CI) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR □  OR □
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  12.1  12.1  12.1  12.1  12.1  12.1  (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 249.2 249.1 249.4 249.1 249.2 NALYSIS AI () (8020) (N I) (NWTPH- ictivity) (TDi C) (Total PO- ic) (WAD Cy () (As) (Sb) (cetals) (As) (Sb)	D.O. (mg/L)  0.41  0.39  0.40  0.39  0.40  LLOWED PERMYTPH-G) ( D) (NWTPH-S) (TSS) (Bd) (Total Kie vanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.39 6.40 6.41 6.40 ER BOTTLE NWTPH-Gx I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -89.9  -89.9  -89.9  -89.9  TYPE (Circle application of the company of	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (MO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  ase) CI) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  12.1  12.1  12.1  12.1  12.1  12.1  (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 249.2 249.1 249.2 249.1 249.2 NALYSIS AI 0) (8020) (N I) (NWTPH-  ctivity) (TD: C) (Total PO-  le) (WAD Cy 0) (As) (Sb) (setals) (As) (Si g short list)	D.O. (mg/L)  0.41  0.39  0.40  0.39  0.40  LLOWED PERMYTPH-G) ( D) (NWTPH-S) (TSS) (Bd) (Total Kie vanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.39 6.40 6.41 6.40 ER BOTTLE NWTPH-Gx I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -89.9  -89.9  -89.9  -89.9  TYPE (Circle application of the company of	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (MO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  ase) CI) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  12.1  12.1  12.1  12.1  12.1  12.1  (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 249.2 249.1 249.2 249.1 249.2 NALYSIS AI 0) (8020) (N I) (NWTPH-  ctivity) (TD: C) (Total PO-  le) (WAD Cy 0) (As) (Sb) (setals) (As) (Si g short list)	D.O. (mg/L)  0.41  0.39  0.40  0.39  0.40  LLOWED PERMYTPH-G) ( D) (NWTPH-S) (TSS) (Bd) (Total Kie vanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.39 6.40 6.41 6.40 ER BOTTLE NWTPH-Gx I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -89.9  -89.9  -89.9  -89.9  TYPE (Circle aportion (BTEX)  HCID) (8081) dity) (Alkalinity  n) (NH3) (NO3.	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (MO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  ase) CI) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  12.1  12.1  12.1  12.1  12.1  12.1  (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 249.2 249.1 249.2 249.1 249.2 NALYSIS AI 0) (8020) (N I) (NWTPH-  ctivity) (TD: C) (Total PO-  le) (WAD Cy 0) (As) (Sb) (setals) (As) (Si g short list)	D.O. (mg/L)  0.41  0.39  0.40  0.39  0.40  LLOWED PERMYTPH-G) ( D) (NWTPH-S) (TSS) (Bd) (Total Kie vanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.39 6.40 6.41 6.40 ER BOTTLE NWTPH-Gx I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -89.9  -89.9  -89.9  -89.9  TYPE (Circle aportion (BTEX)  HCID) (8081) dity) (Alkalinity  n) (NH3) (NO3.	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (MO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  ase) CI) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  12.1  12.1  12.1  12.1  12.1  12.1  TYPICAL A (8260) (8010 (8270) (PAF (PH) (Condu (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 249.2 249.1 249.2 249.1 249.2 NALYSIS AI 0) (8020) (N I) (NWTPH-  ctivity) (TD: C) (Total PO-  le) (WAD Cy 0) (As) (Sb) (setals) (As) (Si g short list)	D.O. (mg/L)  0.41  0.39  0.40  0.39  0.40  LLOWED PERMYTPH-G) ( D) (NWTPH-S) (TSS) (Bd) (Total Kie vanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.39 6.40 6.41 6.40 ER BOTTLE NWTPH-Gx I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -89.9  -89.9  -89.9  -89.9  TYPE (Circle aportion (BTEX)  HCID) (8081) dity) (Alkalinity  n) (NH3) (NO3.	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (MO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  ase) CI) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  12.1  12.1  12.1  12.1  12.1  12.1  TYPICAL A (8260) (8010 (8270) (PAF (PH) (Condu (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 249.2 249.1 249.2 249.1 249.2 NALYSIS AI 0) (8020) (N I) (NWTPH-  ctivity) (TD: C) (Total PO-  le) (WAD Cy 0) (As) (Sb) (setals) (As) (Si g short list)	D.O. (mg/L)  0.41  0.39  0.40  0.39  0.40  LLOWED PERMYTPH-G) ( D) (NWTPH-S) (TSS) (Bd) (Total Kie vanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.39 6.40 6.41 6.40 ER BOTTLE NWTPH-Gx I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -89.9  -89.9  -89.9  -89.9  TYPE (Circle aportion (BTEX)  HCID) (8081) dity) (Alkalinity  n) (NH3) (NO3.	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (MO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  ase) CI) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  12.1  12.1  12.1  12.1  12.1  12.1  TYPICAL A (8260) (8010 (8270) (PAF (PH) (Condu (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 249.2 249.1 249.2 249.1 249.2 NALYSIS AI 0) (8020) (N I) (NWTPH-  ctivity) (TD: C) (Total PO-  le) (WAD Cy 0) (As) (Sb) (setals) (As) (Si g short list)	D.O. (mg/L)  0.41  0.39  0.40  0.39  0.40  LLOWED PERMYTPH-G) ( D) (NWTPH-S) (TSS) (Bd) (Total Kie vanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.39 6.40 6.41 6.40 ER BOTTLE NWTPH-Gx I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -89.9  -89.9  -89.9  -89.9  TYPE (Circle aportion (BTEX)  HCID) (8081) dity) (Alkalinity  n) (NH3) (NO3.	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (MO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  ase) CI) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Name	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2021			Date/Time:	2/17/2021@	1047		
Sample Num	nber:	RGW147S-	210217		Weather:	CLOUDY			
Landau Repr	resentative:	AHA			•				
WATER LEV	/FI/W/FII/PI	IRGE DATA							
Well Conditio		Secure (YES	)	Damaged (N	(0)	Describe:	FLUSHMOUN	JT	
DTW Before		4.77	Time:		Flow through ce		12001111001	GW Meter No.(s	s 10
Begin Purge:	0 0 0			End Purge:	-	2/ 17/2021 @	. 1039	Gallons Purged:	0.25
Purge water d		2/1//2021	55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	
i dige water d	isposed to.		-	₩	Storage rank	U Ground	Other	SITE TREATIVE	EIVI BIBIEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
Time	, ,	. ,	. 0 /	ters for three	, ,	dings within the fo		>/= 1 flow	Obsci vations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1022	9.8	175.1	0.67	4.38	-61.1		4.77		
1025	9.4	186.1	0.56	4.52	-67.6		4.77	-	
1028	9.2	192.2	0.52	4.69	-72.1		4.77	· <del></del>	
							7.77	· <del></del>	
1031	9.4	194.1	0.51	4.81	-73.5	-	-	· <del></del>	
1034	9.5	195.2	0.51	4.86	-75.7				
1037	9.5	194.1	0.57	4.91	-77.8		·		
1039							· <u></u>		
SAMPLE CO	LLECTION D	DATA							
Sample Collec	cted With:		Bailer		Pump/Pump Type	DED. BLADDER			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Wa	sh	Tap Rinse	DI Water	Dedicated			
(By Numerica	101)								
(Dy Ivanierica	l Order)	Other							
		—	, sheen, etc.):	NO COLOR	LOW TURB, NO	O ODOR, NO SHE	EN, SOME PAR	TICLES	
Sample Descr	ription (color,	turbidity, odor	· · · /_		·				
	Temp	turbidity, odor	D.O.	NO COLOR	ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)				Comments/ Observations
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	<b>рН</b> 4.92	ORP (mV)	Turbidity	DTW	Ferrous iron	
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW	Ferrous iron	
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	<b>рН</b> 4.92	ORP (mV)	Turbidity	DTW	Ferrous iron	
Sample Descr Replicate  1 2	Temp (°F/°C) 9.6	Cond. (uS/cm) 194.3	D.O. (mg/L) 0.56	<b>pH</b> 4.92 4.93	ORP (mV) -78.1 -77.9	Turbidity	DTW	Ferrous iron	
Replicate  1 2 3	Temp (°F/°C) 9.6 9.6	Cond. (uS/cm) 194.3 194.2	D.O. (mg/L) 0.56 0.59	<b>pH</b> 4.92 4.93 4.94	ORP (mV) -78.1 -77.9	Turbidity	DTW	Ferrous iron	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.6 9.6 9.6 9.6	Cond. (uS/cm)  194.3  194.2  194.4  194.5	D.O. (mg/L)  0.56  0.59  0.56  0.56  0.57	pH  4.92  4.93  4.94  4.94  4.93	ORP (mV) -78.1 -77.9 -77.6 -77.8	Turbidity (NTU)  #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.6 9.6 9.6 9.6 7.6	Cond. (uS/cm) 194.3 194.2 194.4 194.5	D.O. (mg/L)  0.56  0.59  0.56  0.56  0.57	pH  4.92  4.93  4.94  4.94  4.93  CR BOTTLE	ORP (mV)  -78.1  -77.9  -77.6  -77.8  -77.9  TYPE (Circle a)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.6 9.6 9.6 9.6 7.6 9.6 9.6 9.6	Cond. (uS/cm)  194.3  194.2  194.4  194.5  194.4  NALYSIS AI  (0) (8020) (N	D.O. (mg/L)  0.56  0.59  0.56  0.57  LLOWED PF	4.92 4.93 4.94 4.94 4.93 CR BOTTLE	ORP (mV)  -78.1  -77.9  -77.6  -77.8  -77.9  TYPE (Circle a) (BTEX)	Turbidity (NTU)  #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.6 9.6 9.6 9.6 9.6 9.6 (8260) (8010 (8270D) (PA	Cond. (uS/cm)  194.3  194.2  194.4  194.5  194.4  NALYSIS AI  O) (8020) (NAH) (NWTPI	D.O. (mg/L)  0.56  0.59  0.56  0.57  LLOWED PP  WTPH-G) (NWTF	4.92 4.93 4.94 4.94 4.93 ER BOTTLE NWTPH-GX; PH-DX) (TPI	ORP (mV)  -78.1  -77.9  -77.6  -77.8  -77.9  TYPE (Circle a) (BTEX)  H-HCID) (8081)	Turbidity (NTU)  #DIV/0!  pplicable or write	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Observations OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.6 9.6 9.6 9.6 9.6 (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm)  194.3  194.4  194.5  194.4  NALYSIS AI  O) (8020) (NAH) (NWTPH activity) (TD:	D.O. (mg/L)  0.56  0.59  0.56  0.57  LLOWED PF  WYPH-G) (NWTF S) (TSS) (E	4.92 4.93 4.94 4.93 4.94 4.93 ER BOTTLE NWTPH-GX PH-Dx) (TPF	ORP (mV)  -78.1  -77.9  -77.6  -77.8  -77.9  TYPE (Circle a) (BTEX)  H-HCID) (8081)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Observations OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.6  9.6  9.6  9.6  9.6  14 (8260) (8010) (8270D) (PAC) (COD) (TOO)	Cond. (uS/cm)  194.3  194.4  194.5  194.4  NALYSIS AI  O) (8020) (NAH) (NWTPH activity) (TD:	D.O. (mg/L)  0.56  0.59  0.56  0.57  LLOWED PERMYPH-G) (M-LD) (NWTPH-G) (M-LD) (M-L	4.92 4.93 4.94 4.94 4.93 CR BOTTLE NWTPH-Gx; PH-Dx) (TPFI GOD) (Turbidahl Nitroger	ORP (mV)  -78.1  -77.9  -77.6  -77.8  -77.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Observations OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.6  9.6  9.6  9.6  9.6  9.6  (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid	Cond. (uS/cm)  194.3  194.2  194.4  194.5  194.4  NALYSIS AI (0) (8020) (N AH) (NWTPH (ctivity) (TD) (C) (Total PO-	D.O. (mg/L)  0.56  0.59  0.56  0.57  LLOWED PP  WTPH-G) (NWTP S) (TSS) (E 4) (Total Kie vanide) (Free	4.92 4.93 4.94 4.94 4.93 CR BOTTLE NWTPH-GX PH-Dx) (TPF GOD) (Turbic dahl Nitroger Cyanide)	ORP (mV)  -78.1  -77.9  -77.6  -77.8  -77.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity (MH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6	DTW (ft)  non-standard a	ralysis below) WA  WA  ONE WA	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.6  9.6  9.6  9.6  9.6  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm)  194.3  194.4  194.5  194.4  NALYSIS AI  (NWTPHetivity) (TD: (C) (Total PO- (de) (WAD Cy (de) (As) (Sb) (etals) (As) (Sb) (setals) (As) (Sb)	D.O. (mg/L)  0.56  0.59  0.56  0.57  LLOWED PF  WYPH-G) (WYTF S) (TSS) (B4) (Total Kie	4.92 4.93 4.94 4.93 4.94 4.93 ER BOTTLE NWTPH-GX PH-Dx) (TPF GOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -78.1  -77.9  -77.6  -77.8  -77.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity a) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.6  9.6  9.6  9.6  9.6  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  194.3  194.2  194.4  194.5  194.4  NALYSIS AI (0) (8020) (N AH) (NWTPH (activity) (TD) (C) (Total PO- (le) (WAD Cy (le) (WAD Cy (le) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.56  0.59  0.56  0.57  LLOWED PERMYTPH-G) (M-TPH-G) (NWTFPH-G) (NWTFPH-G) (Total Kiewanide) (Free Ba) (Be) (Carbo) (Ba) (Be) (Carbo) (Ba) (Be) (Carbo)	4.92 4.93 4.94 4.93 4.94 4.93 ER BOTTLE NWTPH-GX PH-Dx) (TPF GOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -78.1  -77.9  -77.6  -77.8  -77.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity a) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)	Observations  OR  OR  OR  OR  Graph  Graph
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.6  9.6  9.6  9.6  9.6  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  194.3  194.4  194.5  194.4  NALYSIS AI  (NWTPHetivity) (TD: (C) (Total PO- (de) (WAD Cy (de) (As) (Sb) (etals) (As) (Sb) (setals) (As) (Sb)	D.O. (mg/L)  0.56  0.59  0.56  0.57  LLOWED PERMYTPH-G) (M-TPH-G) (NWTFPH-G) (NWTFPH-G) (Total Kiewanide) (Free Ba) (Be) (Carbo) (Ba) (Be) (Carbo) (Ba) (Be) (Carbo)	4.92 4.93 4.94 4.93 4.94 4.93 ER BOTTLE NWTPH-GX PH-Dx) (TPF GOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -78.1  -77.9  -77.6  -77.8  -77.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity a) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)	Observations  OR  OR  OR  OR  Graph  Graph
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.6  9.6  9.6  9.6  9.6  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  194.3  194.2  194.4  194.5  194.4  NALYSIS AI (0) (8020) (N AH) (NWTPH (activity) (TD) (C) (Total PO- (le) (WAD Cy (le) (WAD Cy (le) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.56  0.59  0.56  0.57  LLOWED PERMYTPH-G) (M-TPH-G) (NWTFPH-G) (NWTFPH-G) (Total Kiewanide) (Free Ba) (Be) (Carbo) (Ba) (Be) (Carbo) (Ba) (Be) (Carbo)	4.92 4.93 4.94 4.93 4.94 4.93 ER BOTTLE NWTPH-GX PH-Dx) (TPF GOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -78.1  -77.9  -77.6  -77.8  -77.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity a) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)	Observations  OR  OR  OR  OR  Graph  Graph
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.6  9.6  9.6  9.6  7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  194.3  194.2  194.4  194.5  194.4  NALYSIS AI (0) (8020) (N AH) (NWTPH (activity) (TD) (C) (Total PO- (le) (WAD Cy (le) (WAD Cy (le) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.56  0.59  0.56  0.57  LLOWED PERMYTPH-G) (M-TPH-G) (NWTFPH-G) (NWTFPH-G) (Total Kiewanide) (Free Ba) (Be) (Carbo) (Ba) (Be) (Carbo) (Ba) (Be) (Carbo)	4.92 4.93 4.94 4.93 4.94 4.93 ER BOTTLE NWTPH-GX PH-Dx) (TPF GOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -78.1  -77.9  -77.6  -77.8  -77.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity a) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)	Observations  OR  OR  OR  OR  Graph  Graph
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.6  9.6  9.6  9.6  9.6  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  194.3  194.2  194.4  194.5  194.4  NALYSIS AI (0) (8020) (N AH) (NWTPH (activity) (TD) (C) (Total PO- (le) (WAD Cy (le) (WAD Cy (le) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.56  0.59  0.56  0.57  LLOWED PERMYTPH-G) (M-TPH-G) (NWTFPH-G) (NWTFPH-G) (Total Kiewanide) (Free Ba) (Be) (Carbo) (Ba) (Be) (Carbo) (Ba) (Be) (Carbo)	4.92 4.93 4.94 4.93 4.94 4.93 ER BOTTLE NWTPH-GX PH-Dx) (TPF GOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -78.1  -77.9  -77.6  -77.8  -77.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity a) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)	Observations  OR  OR  OR  OR  Graph  Graph
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.6  9.6  9.6  9.6  9.6  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  194.3  194.2  194.4  194.5  194.4  NALYSIS AI (0) (8020) (N AH) (NWTPH (activity) (TD) (C) (Total PO- (le) (WAD Cy (le) (WAD Cy (le) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.56  0.59  0.56  0.57  LLOWED PERMYTPH-G) (M-TPH-G) (NWTFPH-G) (NWTFPH-G) (Total Kiewanide) (Free Ba) (Be) (Carbo) (Ba) (Be) (Carbo) (Ba) (Be) (Carbo)	4.92 4.93 4.94 4.93 4.94 4.93 ER BOTTLE NWTPH-GX PH-Dx) (TPF GOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -78.1  -77.9  -77.6  -77.8  -77.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity a) (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)	Observations  OR  OR  OR  OR  Graph  Graph
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.6  9.6  9.6  9.6  9.6  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  194.3  194.2  194.4  194.5  194.4  NALYSIS AI (O) (8020) (N AH) (NWTPHetrivity) (TD: (C) (Total PO- (de) (WAD Cy (de) (As) (Sb) (etals) (As) (Sb) (g short list)  tanne Ethene Ac	D.O. (mg/L)  0.56  0.59  0.56  0.57  LLOWED PERWITH-G) (M-LD) (NWTERS) (TSS) (EM-LD) (NWTERS) (Total Kiewanide) (Free Ba) (Be) (Canders) (Ba) (Be) (Canders) (Ba) (Be) (Canders)	PH  4.92  4.93  4.94  4.94  4.93  CR BOTTLE  NWTPH-Gx; PH-Dx) (TPH  GOD) (Turbindahl Nitroger  Cyanide)  a) (Cd) (Co)  Ca) (Cd) (Co)	ORP (mV)  -78.1  -77.9  -77.6  -77.8  -77.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity (NH3) (NO3)  (Cr) (Cu) (Fe) (Cr) (Cu) (Fe) (P	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a  rease) Cl) (SO4) (NC  Ni) (Ag) (Se) ((Ag) (Se) (Tl) (V	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)	Observations  OR  OR  OR  OR  Graph  Graph



	e <u>:</u>	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2021		_	Date/Time:	2/17/2021@	907		
Sample Num	ıber:	RGW150S-	210217		Weather:	CLOUDY WITH	H SOME RAIN		
Landau Repr	esentative:	AHA			•				
WATER LEV	FI/WFII/PI	IRGE DATA							
Well Condition		Secure (YES		Damaged (N	(O)	Describe:	FLUSHMOUN	IT	
DTW Before		5.29	Time:	- '	Flow through cel			GW Meter No.(s	: 10
	0 0 0	2/ 17 /2021 (		End Purge:	_	2/ 17/2021 @	906	Gallons Purged:	0.25
Purge water d		2/1//2021 (	55-gal Drum	Ĕ	Storage Tank	Ground		SITE TREATM	
i uige water u	isposed to.		-	-	Storage Talik	□ Ground	Other	SITE TREATM	LIVI STSTEM
Time	Temp (°F/°C)	Cond.	D.O.	pН	ORP (mV)	Turbidity	DTW	Internal Purge	Comments/
Time	` ′	(uS/cm) ls: Stablizatio	(mg/L) on of Paramet	ters for three	. ,	(NTU) lings within the fo	(ft) llowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
848	9.9	203.8	3.27	7.97	-60.1		5.29		
851	9.8	177.7	2.55	7.59	-59.9		5.29		
								-	
854	9.2	163.8	1.99	7.33	-62.7		5.29		
857	9.1	152.9	1.79	7.17	-64.7				
900	9.2	142.8	1.48	7.02	-65.8				
903	9.3	139.3	1.41	6.93	-68.4				
905	9.4	136.5	1.38	6.87	-71.9				
SAMPLE CO	LLECTION D	)ATA							
Sample Collec			Bailer		Pump/Pump Type	DED. BLADDER	-		
Made of:	П	Stainless Ste	el 🗍	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure:	Alconox Wa		Tap Rinse	DI Water	Dedicated		_	
(By Numerica		Other	··· ⊔	rap remse	□ Di watei	Dedicated			
		_	· sheen etc.):	NO COLOR	PLOW TURE NO	O ODOR, NO SHE	EN		
Sumple Beser	iption (color,	arolany, odor	, sneen, etc.) <u>-</u>	NO COLOI	CEOW TORES, TO	o obor, no sile			
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	9.5	134.8	1.42	6.86	-72.2				
2	9.5								
		135.1	1.37	6.85	-72.9				
3									
3	9.6	135.1	1.43	6.84	-72.9				
4	9.6	135.1	1.43	6.84	-72.9 -73.6				
	9.6	135.1	1.43	6.84	-72.9	#DIV/0!			
4 Average:	9.6 9.6 9.6	135.1 133.8 134.7	1.43 1.41 1.41	6.84 6.83 6.85	-72.9 -73.6 -72.9	#DIV/0!	non-standard a	nalysis below)	
4 Average:	9.6 9.6 9.6 TYPICAL A	135.1 133.8 134.7	1.43 1.41 1.41 LLOWED PE	6.84 6.83 6.85 ER BOTTLE	-72.9 -73.6 -72.9 <b>TYPE (Circle a)</b>		non-standard a	nalysis below) WA	OR 🗆
4 Average: QUANTITY	9.6 9.6 9.6 <b>TYPICAL A</b> (8260) (8010	135.1 133.8 134.7 NALYSIS AI 0) (8020) (N	1.43 1.41 1.41 LLOWED PE	6.84 6.83 6.85 ER BOTTLE NWTPH-Gx	-72.9 -73.6 -72.9 TYPE (Circle ap				OR  OR
4 Average: QUANTITY	9.6 9.6 9.6 <b>TYPICAL A</b> (8260) (8010 (8270D) (PA) (pH) (Condu	135.1 133.8 134.7 NALYSIS AI 0) (8020) (N AH) (NWTPH activity) (TD:	1.43 1.41 1.41 LLOWED PENWTPH-G) (H-D) (NWTF	6.84 6.83 6.85 CR BOTTLE NWTPH-GX PH-Dx) (TPH GOD) (Turbio	-72.9 -73.6 -72.9  TYPE (Circle ap (BTEX)  H-HCID) (8081) dity) (Alkalinity)	(8141) (Oil & G ) (HCO3/CO3) ((	rease)	WA 🗆	
4 Average: QUANTITY	9.6 9.6 9.6 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction) (COD) (TOO	135.1 133.8 134.7 NALYSIS AI 0) (8020) (NAH) (NWTPH activity) (TD: C) (Total PO-	1.43 1.41 1.41 LLOWED PE WTPH-G) ( H-D) (NWTF S) (TSS) (B 4) (Total Kie	6.84 6.83 6.85 CR BOTTLE NWTPH-GX PH-DX) (TPH GOD) (Turbio dahl Nitroger	-72.9 -73.6 -72.9  TYPE (Circle ap (BTEX)) H-HCID) (8081)	(8141) (Oil & G ) (HCO3/CO3) ((	rease)	WA 🗆	
4 Average:  QUANTITY 3	9.6 9.6 9.6 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid	135.1 133.8 134.7 NALYSIS AI 0) (8020) (N AH) (NWTPH netivity) (TD: C) (Total PO-	1.43 1.41 1.41 LLOWED PE WTPH-G) ( H-D) (NWTF S) (TSS) (B 4) (Total Kie vanide) (Free	6.84 6.83 6.85 ER BOTTLE NWTPH-GX, PH-DX) (TPH GOD) (Turbidahl Nitroger Cyanide)	-72.9 -73.6 -72.9  TYPE (Circle aportion (BTEX) H-HCID) (8081) dity) (Alkalinity) h) (NH3) (NO3)	(8141) (Oil & G (HCO3/CO3) (0/NO2)	rease) Cl) (SO4) (NC	WA	OR
4 Average:  QUANTITY 3	9.6 9.6 9.6 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	135.1 133.8 134.7 NALYSIS AI 0) (8020) (NAH) (NWTPH detivity) (TD: C) (Total PO- de) (WAD Cy ) (As) (Sb) (	1.43 1.41 1.41 LLOWED PER SWTPH-G) (M-D) (NWTF S) (TSS) (B4) (Total Kiel Vanide) (Free Ba) (Be) (Ca	6.84 6.83 6.85 CR BOTTLE NWTPH-Gx PH-Dx) (TPH DOD) (Turbit dahl Nitroger Cyanide) a) (Cd) (Co)	-72.9 -73.6 -72.9  TYPE (Circle aportion	(8141) (Oil & G (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	WA	OR   g) (K) (Na)
4 Average:  QUANTITY 3	9.6 9.6 9.6 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M	135.1 133.8 134.7 NALYSIS AI (2) (8020) (NAH) (NWTPH (1) (Total PO- (1) (WAD Cy (2) (As) (Sb) (Setals) (As) (Sb) (St)	1.43 1.41 1.41 LLOWED PER SWTPH-G) (M-D) (NWTF S) (TSS) (B4) (Total Kiel Vanide) (Free Ba) (Be) (Ca	6.84 6.83 6.85 CR BOTTLE NWTPH-Gx PH-Dx) (TPH DOD) (Turbit dahl Nitroger Cyanide) a) (Cd) (Co)	-72.9 -73.6 -72.9  TYPE (Circle aportion	(8141) (Oil & G (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	WA	OR   g) (K) (Na)
4 Average:  QUANTITY 3	9.6 9.6 9.6 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	135.1 133.8 134.7 NALYSIS AI 0) (8020) (NAH) (NWTPH detivity) (TDS C) (Total PO- de) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb ag short list)	1.43 1.41 1.41 LLOWED PE WTPH-G) (M-D) (NWTF S) (TSS) (B 4) (Total Kie vanide) (Free (Ba) (Be) (Ca (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (	6.84 6.83 6.85 CR BOTTLE NWTPH-Gx PH-Dx) (TPH DOD) (Turbit dahl Nitroger Cyanide) a) (Cd) (Co)	-72.9 -73.6 -72.9  TYPE (Circle aportion	(8141) (Oil & G (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	WA	OR   g) (K) (Na)
4 Average:  QUANTITY 3	9.6 9.6 9.6 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	135.1 133.8 134.7 NALYSIS AI (2) (8020) (NAH) (NWTPH (1) (Total PO- (1) (WAD Cy (2) (As) (Sb) (Setals) (As) (Sb) (St)	1.43 1.41 1.41 LLOWED PE WTPH-G) (M-D) (NWTF S) (TSS) (B 4) (Total Kie vanide) (Free (Ba) (Be) (Ca (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (	6.84 6.83 6.85 CR BOTTLE NWTPH-Gx PH-Dx) (TPH DOD) (Turbit dahl Nitroger Cyanide) a) (Cd) (Co)	-72.9 -73.6 -72.9  TYPE (Circle aportion	(8141) (Oil & G (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	WA	OR   g) (K) (Na)
4 Average:  QUANTITY 3	9.6 9.6 9.6 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	135.1 133.8 134.7 NALYSIS AI 0) (8020) (NAH) (NWTPH detivity) (TDS C) (Total PO- de) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb ag short list)	1.43 1.41 1.41 LLOWED PE WTPH-G) (M-D) (NWTF S) (TSS) (B 4) (Total Kie vanide) (Free (Ba) (Be) (Ca (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (	6.84 6.83 6.85 CR BOTTLE NWTPH-Gx PH-Dx) (TPH DOD) (Turbit dahl Nitroger Cyanide) a) (Cd) (Co)	-72.9 -73.6 -72.9  TYPE (Circle aportion	(8141) (Oil & G (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	WA	OR   g) (K) (Na)
4 Average:  QUANTITY  3	9.6 9.6 9.6 9.6 1TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	135.1 133.8 134.7 NALYSIS AI 0) (8020) (NAH) (NWTPH detivity) (TDS C) (Total PO- de) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb ag short list)	1.43 1.41 1.41 LLOWED PE WTPH-G) (M-D) (NWTF S) (TSS) (B 4) (Total Kie vanide) (Free (Ba) (Be) (Ca (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (	6.84 6.83 6.85 CR BOTTLE NWTPH-Gx PH-Dx) (TPH DOD) (Turbit dahl Nitroger Cyanide) a) (Cd) (Co)	-72.9 -73.6 -72.9  TYPE (Circle aportion	(8141) (Oil & G (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	WA	OR
4 Average:  QUANTITY  3	9.6 9.6 9.6 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	135.1 133.8 134.7 NALYSIS AI 0) (8020) (NAH) (NWTPH detivity) (TDS C) (Total PO- de) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb ag short list)	1.43 1.41 1.41 LLOWED PE WTPH-G) (M-D) (NWTF S) (TSS) (B 4) (Total Kie vanide) (Free (Ba) (Be) (Ca (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (	6.84 6.83 6.85 CR BOTTLE NWTPH-Gx PH-Dx) (TPH DOD) (Turbit dahl Nitroger Cyanide) a) (Cd) (Co)	-72.9 -73.6 -72.9  TYPE (Circle aportion	(8141) (Oil & G (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	WA	OR   g) (K) (Na)
4 Average:  QUANTITY  3	9.6 9.6 9.6 9.6 1TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	135.1 133.8 134.7 NALYSIS AI 0) (8020) (NAH) (NWTPH detivity) (TDS C) (Total PO- de) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb ag short list)	1.43 1.41 1.41 LLOWED PE WTPH-G) (M-D) (NWTF S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	6.84 6.83 6.85 CR BOTTLE NWTPH-Gx PH-Dx) (TPH DOD) (Turbit dahl Nitroger Cyanide) a) (Cd) (Co)	-72.9 -73.6 -72.9  TYPE (Circle aportion	(8141) (Oil & G (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	rease) Cl) (SO4) (NO Ni) (Ag) (Se) (	WA	OR   g) (K) (Na)



Project Nam	ıe <u>:</u>	Boeing Rent	ton		Project Numbe	r:	0025217.099.0	199	
Event:		Feb. 2021			Date/Time:	2/15/2021@	1246		
Sample Nun	nber:	RGW152S-	210215		Weather:	CLOUDY			
Landau Rep	resentative:	JAN							
WATERIEV	/EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES)	1	Damaged (N	0)	Describe:	FLUSHMOUN	JT	
		8.03	Time:		Flow through ce		TECOMMOCI		s 11
DTW Before					C	2/15/2021 @	1245	GW Meter No.(	
		2/15/2021 @	1223	End Purge:			_	Gallons Purged:	0.25
Purge water d	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENI SYSIEM
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%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1226	9.5	124.4	3.50	5.99	56.2		8.09		
1229	9.1	119.6	3.90	5.97	55.4		8.09		
1232	9.0	118.6	4.16	5.97	52.3		8.09		
1235	8.6	121.1	4.29	5.99	47.1				
1238	8.0	137.8	4.40	6.00	41.8				
1241	7.4	152.9	4.57	6.01	30.3				
1243	7.1	151.5	4.62	6.03	21.3		-		
SAMPLE CO	LLECTION D	DATA	<u>"</u>					·	
Sample Colle	cted With:		Bailer		Pump/Pump Type	DED. BLADDER	-		
Made of:		Stainless Stee	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	dure:	Alconox Was	h 🗍	Tap Rinse	DI Water	Dedicated		<del></del>	
(By Numerica	ıl Order)	Other		•	<b>-</b>				
Sample Descr	ription (color, t	₩.	sheen, etc.):	GREYISH, I	MED TURB, SLI	GHT ODOR, NO S	HEEN.		
Sample Descr	ription (color, t	₩.	, sheen, etc.):	GREYISH, I	MED TURB, SLI	GHT ODOR, NO S	HEEN.		
Sample Descri	ription (color, t	₩.	, sheen, etc.):	GREYISH, I	MED TURB, SLIG	GHT ODOR, NO S  Turbidity	HEEN.  DTW	Ferrous iron	Comments/
		turbidity, odor,	· · · · · · · · · · · · · · · · · · ·					Ferrous iron (Fe II)	Comments/ Observations
	Temp	turbidity, odor,	D.O.		ORP	Turbidity	DTW		
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW		
Replicate  1 2	Temp (°F/°C) 7.1	Cond. (uS/cm)  151.3	D.O. (mg/L) 4.62 4.61	pH 6.03 6.03	ORP (mV) 21.3 21.2	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 7.1 7.1 7.0	Cond. (uS/cm)  151.3  151.0  149.4	D.O. (mg/L) 4.62 4.61	pH  6.03  6.03  6.05	ORP (mV) 21.3 21.2 20.3	Turbidity	DTW		
Replicate  1 2	Temp (°F/°C) 7.1	Cond. (uS/cm)  151.3	D.O. (mg/L) 4.62 4.61	pH 6.03 6.03	ORP (mV) 21.3 21.2	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 7.1 7.1 7.0	Cond. (uS/cm)  151.3  151.0  149.4	D.O. (mg/L) 4.62 4.61	pH  6.03  6.03  6.05	ORP (mV) 21.3 21.2 20.3	Turbidity	DTW		
Replicate  1 2 3 4 Average:	Temp (°F/°C) 7.1 7.1 7.0 7.0	Cond. (uS/cm) 151.3 151.0 149.4 147.8 149.9	D.O. (mg/L) 4.62 4.61 4.62 4.65 4.63	6.03 6.03 6.05 6.05 6.04	ORP (mV)  21.3  21.2  20.3  20.1  20.7	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 7.1 7.1 7.0 7.0 7.1 TYPICAL A	Cond. (uS/cm) 151.3 151.0 149.4 147.8 149.9	D.O. (mg/L) 4.62 4.61 4.62 4.65 4.63 LOWED PR	6.03 6.03 6.05 6.05 6.04 CR BOTTLE	ORP (mV)  21.3  21.2  20.3  20.1  20.7  TYPE (Circle a)	Turbidity (NTU)  #DIV/0!	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 7.1 7.1 7.0 7.0 7.1 TYPICAL A (8260-SIM)	Cond. (uS/cm) 151.3 151.0 149.4 147.8 149.9 NALYSIS AL (8010) (8020	D.O. (mg/L) 4.62 4.61 4.62 4.65 4.63 LOWED PF	6.03 6.03 6.05 6.05 6.04 ER BOTTLE G) (NWTPF	ORP (mV)  21.3  21.2  20.3  20.1  20.7  TYPE (Circle and H-Gx) (BTEX)	Turbidity (NTU)  #DIV/0!	DTW (ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C)  7.1  7.0  7.0  7.1  TYPICAL A  (8260-SIM)  (8270D) (PA	Cond. (uS/cm)  151.3  151.0  149.4  147.8  149.9  NALYSIS AL  (8010) (8020  AH) (NWTPH	D.O. (mg/L)  4.62  4.61  4.62  4.65  4.63  LOWED PF  ) (NWTPH-I-D) (NWTF	6.03 6.03 6.05 6.05 6.04 ER BOTTLE G) (NWTPI	ORP (mV)  21.3  21.2  20.3  20.1  20.7  TYPE (Circle a)  I-Gx) (BTEX)  I-HCID) (8081)	Turbidity (NTU)  #DIV/0!	DTW (ft)	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  7.1  7.0  7.0  7.1  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm)  151.3  151.0  149.4  147.8  149.9  NALYSIS AL (8010) (8020 AH) (NWTPH activity) (TDS	D.O. (mg/L)  4.62  4.61  4.62  4.65  4.63  LOWED PF  (NWTPH-I-D) (NWTF)  (TSS) (ESS) (ESS)	6.03 6.03 6.05 6.05 6.04 ER BOTTLE G) (NWTPH PH-Dx) (TPF EOD) (Turbic	ORP (mV)  21.3  21.2  20.3  20.1  20.7  TYPE (Circle a)  I-Gx) (BTEX)  I-HCID) (8081)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0	DTW (ft)	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.1  7.0  7.0  7.1  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction) (COD) (TOC)	Cond. (uS/cm)  151.3  151.0  149.4  147.8  149.9  NALYSIS AL (8010) (8020 AH) (NWTPH activity) (TDS	D.O. (mg/L)  4.62  4.61  4.62  4.65  4.63  LOWED PE  (NWTPH-I-D) (NWTF  I-D) (NWTF  I-D) (NWTF  I-D) (TSS) (E	6.03 6.03 6.05 6.05 6.04 CR BOTTLE G) (NWTPF PH-Dx) (TPF BOD) (Turbic tal Kiedahl N	ORP (mV)  21.3  21.2  20.3  20.1  20.7  TYPE (Circle all Gay) (BTEX)  H-HCID) (8081) dity) (Alkalinity)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0	DTW (ft)	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.1  7.0  7.0  7.1  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction (COD) (TOC) (Total Cyanidal	Cond. (uS/cm)  151.3  151.0  149.4  147.8  149.9  NALYSIS AL (8010) (8020  AH) (NWTPH (setivity) (TDS) (C5310C) (Total	D.O. (mg/L)  4.62  4.61  4.62  4.65  4.63  LOWED PF  (NWTPH-I-D) (NWTF  (NWTPH-I-D) (NWTF	6.03 6.03 6.05 6.05 6.04 CR BOTTLE G) (NWTPP PH-Dx) (TPP GOD) (Turbic tal Kiedahl N Cyanide)	ORP (mV)  21.3  21.2  20.3  20.1  20.7  TYPE (Circle and I-Gx) (BTEX)  I-HCID) (8081)  dity) (Alkalinity itrogen) (NH3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0	DTW (ft)  non-standard a  rease) CI) (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
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.1  7.0  7.0  7.1  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction (COD) (Total Cyanidal (Total Metals))	Cond. (uS/cm)  151.3  151.0  149.4  147.8  149.9  NALYSIS AL (8010) (8020 AH) (NWTPH letivity) (TDS C5310C) (Tot le) (WAD Cy ) (As) (Sb) (I	D.O. (mg/L)  4.62  4.61  4.62  4.65  4.63  LOWED PF  (NWTPH-I-D) (NWTPH-I-D) (NWTPH-I-D) (TSS) (Eal PO4) (To anide) (Free Ba) (Be) (Ca	6.03 6.03 6.05 6.04 ER BOTTLE G) (NWTPI PH-Dx) (TPF BOD) (Turbictal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  21.3  21.2  20.3  20.1  20.7  TYPE (Circle apolity) (BTEX)  H-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write (8141) (Oil & Good (MO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.1  7.0  7.0  7.1  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction (COD) (Total Cyanidal (Total Metals))	Cond. (uS/cm)  151.3  151.0  149.4  147.8  149.9  NALYSIS AL (8010) (8020 AH) (NWTPH activity) (TDS (25310C) (Tot le) (WAD Cy () (As) (Sb) (I etals) (As) (Sb) (Sb)	D.O. (mg/L)  4.62  4.61  4.62  4.65  4.63  LOWED PF  (NWTPH-I-D) (NWTPH-I-D) (NWTPH-I-D) (TSS) (Eal PO4) (To anide) (Free Ba) (Be) (Ca	6.03 6.03 6.05 6.04 ER BOTTLE G) (NWTPI PH-Dx) (TPF BOD) (Turbictal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  21.3  21.2  20.3  20.1  20.7  TYPE (Circle apolity) (BTEX)  H-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write (8141) (Oil & Good (MO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.1  7.0  7.0  7.1  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm)  151.3  151.0  149.4  147.8  149.9  NALYSIS AL (8010) (8020 AH) (NWTPH activity) (TDS (25310C) (Tot le) (WAD Cy () (As) (Sb) (I etals) (As) (Sb) (Sb)	D.O. (mg/L)  4.62  4.61  4.62  4.65  4.63  LOWED PE  (NWTPH-I-D) (	6.03 6.03 6.05 6.04 ER BOTTLE G) (NWTPI PH-Dx) (TPF BOD) (Turbictal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  21.3  21.2  20.3  20.1  20.7  TYPE (Circle apolity) (BTEX)  H-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write (8141) (Oil & Good (MO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.1  7.0  7.0  7.1  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm)  151.3  151.0  149.4  147.8  149.9  NALYSIS AL (8010) (8020  AH) (NWTPH activity) (TDS (25310C) (Tot le) (WAD Cy) (As) (Sb) (I etals) (As) (Sb g short list)	D.O. (mg/L)  4.62  4.61  4.62  4.65  4.63  LOWED PE  (NWTPH-I-D) (	6.03 6.03 6.05 6.04 ER BOTTLE G) (NWTPI PH-Dx) (TPF BOD) (Turbictal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  21.3  21.2  20.3  20.1  20.7  TYPE (Circle apolity) (BTEX)  H-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write (8141) (Oil & Good (MO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.1  7.0  7.0  7.1  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm)  151.3  151.0  149.4  147.8  149.9  NALYSIS AL (8010) (8020  AH) (NWTPH activity) (TDS (25310C) (Tot le) (WAD Cy) (As) (Sb) (I etals) (As) (Sb g short list)	D.O. (mg/L)  4.62  4.61  4.62  4.65  4.63  LOWED PE  (NWTPH-I-D) (	6.03 6.03 6.05 6.04 ER BOTTLE G) (NWTPI PH-Dx) (TPF BOD) (Turbictal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  21.3  21.2  20.3  20.1  20.7  TYPE (Circle apolity) (BTEX)  H-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write (8141) (Oil & Good (MO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.1  7.0  7.0  7.1  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm)  151.3  151.0  149.4  147.8  149.9  NALYSIS AL (8010) (8020  AH) (NWTPH activity) (TDS (25310C) (Tot le) (WAD Cy) (As) (Sb) (I etals) (As) (Sb g short list)	D.O. (mg/L)  4.62  4.61  4.62  4.65  4.63  LOWED PE  (NWTPH-I-D) (	6.03 6.03 6.05 6.04 ER BOTTLE G) (NWTPI PH-Dx) (TPF BOD) (Turbictal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  21.3  21.2  20.3  20.1  20.7  TYPE (Circle apolity) (BTEX)  H-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write (8141) (Oil & Good (MO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.1  7.0  7.0  7.1  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  151.3  151.0  149.4  147.8  149.9  NALYSIS AL (8010) (8020  AH) (NWTPH letivity) (TDS C5310C) (Tot le) (WAD Cy ) (As) (Sb) (I etals) (As) (Sb g short list) lane Ethene Ac	D.O. (mg/L) 4.62 4.61 4.62 4.65 4.63 LOWED PF () (NWTPH-I-D) (NWTP	pH  6.03  6.03  6.05  6.05  6.04  CR BOTTLE  G) (NWTPF  CH-Dx) (TPF  COD) (Turbic ttal Kiedahl N  Cyanide)  () (Cd) (Co)  Ca) (Cd) (Co)	ORP (mV)  21.3  21.2  20.3  20.1  20.7  TYPE (Circle apolity) (BTEX)  H-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write (8141) (Oil & Good (MO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3  1  Duplicate Sar	Temp (°F/°C)  7.1  7.0  7.0  7.1  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  151.3  151.0  149.4  147.8  149.9  NALYSIS AL (8010) (8020  AH) (NWTPH activity) (TDS (25310C) (Tot le) (WAD Cy) (As) (Sb) (I etals) (As) (Sb g short list)	D.O. (mg/L) 4.62 4.61 4.62 4.65 4.63 LOWED PF () (NWTPH-I-D) (NWTP	pH  6.03  6.03  6.05  6.05  6.04  CR BOTTLE  G) (NWTPF  CH-Dx) (TPF  COD) (Turbic ttal Kiedahl N  Cyanide)  () (Cd) (Co)  Ca) (Cd) (Co)	ORP (mV)  21.3  21.2  20.3  20.1  20.7  TYPE (Circle apolity) (BTEX)  H-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write (8141) (Oil & Good (MO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.1  7.0  7.0  7.1  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  151.3  151.0  149.4  147.8  149.9  NALYSIS AL (8010) (8020  AH) (NWTPH letivity) (TDS C5310C) (Tot le) (WAD Cy ) (As) (Sb) (I etals) (As) (Sb g short list) lane Ethene Ac	D.O. (mg/L) 4.62 4.61 4.62 4.65 4.63 LOWED PF () (NWTPH-I-D) (NWTP	pH  6.03  6.03  6.05  6.05  6.04  CR BOTTLE  G) (NWTPF  CH-Dx) (TPF  COD) (Turbic ttal Kiedahl N  Cyanide)  () (Cd) (Co)  Ca) (Cd) (Co)	ORP (mV)  21.3  21.2  20.3  20.1  20.7  TYPE (Circle apolity) (BTEX)  H-HCID) (8081) dity) (Alkalinity) itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write (8141) (Oil & Good (MO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Nam	ne:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	199	
Event:		Feb. 2021			Date/Time:	2/15/2021@	900		
Sample Nur	nber:	RGWDUP1	210215		Weather:	CLOUDY			
Landau Rep	resentative:	JAN							
WATEDIE	VEL/WELL/PU	IDGE DATA							
Well Condition		Secure (YES)	<b>\</b>	Damaged (N	(0)	Describe	FLUSHMOUN	JT	
		Secure (1ES		Damaged (N			FLUSHMOUL		
DTW Before			Time:		Flow through ce			GW Meter No.(	
		2/15/2021 @		End Purge:		2/15/2021 @		Gallons Purged:	0.25
Purge water of	disposed to:		55-gal Drum	Ш	Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)		(mV)	(NTU)	(ft)	Volume (gal)	Observations
						lings within the fo		>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
						T T 4 <b>T 5</b> C			
		DUŁ	PLICA	ATE T	TO RGV	V152S			
-									
CAMDI E CO	DLLECTION I								
Sample Colle			Bailer		Dumn/Dumn Tyne	DED. BLADDER			
•	cied with.		_	_		_		D. D. C. (1)	
Made of:		Stainless Stee		PVC	Teflon	Polyethylene	U Other	Dedicated	
Decon Proce	dure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	al Ordor)								
,=, =	ui Oruer)	Other							
		-	, sheen, etc.):	GREYISH,	MED TURB, SLI	GHT ODOR, NO S	HEEN.		
Sample Desc	ription (color,	turbidity, odor							
	ription (color, t	turbidity, odor	D.O.	GREYISH, I	ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Desc Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)			Ferrous iron (Fe II)	Comments/ Observations
Sample Desc	Temp	turbidity, odor	D.O.		ORP	Turbidity	DTW		
Sample Desc Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW		
Sample Desc Replicate	Temp (°F/°C) 6.9	Cond. (uS/cm)  146.8	D.O. (mg/L) 4.62	pH 6.05 6.07	ORP (mV) 20.2	Turbidity	DTW		
Sample Desc  Replicate  1 2 3	Temp (°F/°C) 6.9 7.0	Cond. (uS/cm)  146.8  144.5	D.O. (mg/L) 4.62 4.61 4.57	<b>pH</b> 6.05 6.07 6.08	ORP (mV) 20.2 19.4	Turbidity	DTW		
Replicate  1 2	Temp (°F/°C) 6.9 6.9 7.0	Cond. (uS/cm) 146.8 144.5 144.4 143.6	D.O. (mg/L) 4.62 4.61 4.57	pH  6.05  6.07  6.08  6.08	ORP (mV) 20.2 19.4 18.9 19.0	Turbidity (NTU)	DTW		
Sample Desc  Replicate  1 2 3	Temp (°F/°C) 6.9 7.0	Cond. (uS/cm)  146.8  144.5	D.O. (mg/L) 4.62 4.61 4.57	<b>pH</b> 6.05 6.07 6.08	ORP (mV) 20.2 19.4	Turbidity	DTW		
Replicate  1 2 3 4 Average:	Temp (°F/°C)  6.9  7.0  7.0	Cond. (uS/cm)  146.8  144.5  144.4  143.6  144.8	D.O. (mg/L) 4.62 4.61 4.57 4.61 4.60	pH  6.05  6.07  6.08  6.08  6.07	ORP (mV) 20.2 19.4 18.9 19.0	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.9 6.9 7.0 7.0 7.0	Cond. (uS/cm)  146.8  144.5  144.4  143.6  144.8	D.O. (mg/L) 4.62 4.61 4.57 4.61 4.60	6.05 6.07 6.08 6.08 6.07 ER BOTTLE	ORP (mV)  20.2  19.4  18.9  19.0  19.4  TYPE (Circle a)	Turbidity (NTU)  #DIV/0!	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.9 6.9 7.0 7.0 7.0 7.0 (8260-SIM)	Cond. (uS/cm) 146.8 144.5 144.4 143.6 144.8 NALYSIS AI (8010) (8020	D.O. (mg/L)  4.62  4.61  4.57  4.61  4.60  LOWED PE	6.05 6.07 6.08 6.07 CR BOTTLE	ORP (mV)  20.2  19.4  18.9  19.0  19.4  TYPE (Circle ald H-Gx) (BTEX)	Turbidity (NTU)  #DIV/0!	DTW (ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C)  6.9  7.0  7.0  7.0  7.0  (8260-SIM)  (8270D) (PA	Cond. (uS/cm)  146.8  144.5  144.4  143.6  144.8  NALYSIS AL (8010) (8020 AH) (NWTPH	D.O. (mg/L)  4.62  4.61  4.57  4.61  4.60  LOWED PE  ) (NWTPH-I-D) (NWTF	6.05 6.07 6.08 6.08 6.07 ER BOTTLE G) (NWTPI	ORP (mV)  20.2  19.4  18.9  19.0  19.4  TYPE (Circle a)  H-Gx) (BTEX)  H-HCID) (8081)	Turbidity (NTU)  #DIV/0!	DTW (ft)	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.9 6.9 7.0 7.0 7.0 7.0 (8260-SIM) (8270D) (PA (PH) (Conductive)	Cond. (uS/cm)  146.8  144.5  144.4  143.6  144.8  NALYSIS AL (8010) (8020 AH) (NWTPH activity) (TDS	D.O. (mg/L)  4.62  4.61  4.57  4.61  4.60  LOWED PE  (NWTPH-I-D) (NWTFH-I-D) (	6.05 6.07 6.08 6.08 6.07 ER BOTTLE G) (NWTPF	ORP (mV)  20.2  19.4  18.9  19.0  19.4  TYPE (Circle a)  H-Gx) (BTEX)  H-HCID) (8081)	#DIV/0! pplicable or write to (8141) (Oil & G.) (HCO3/CO3) (G.)	DTW (ft)	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  6.9  7.0  7.0  7.0  7.0  (8260-SIM)  (8270D) (PA (PH) (Conduction) (COD) (TOC)	Cond. (uS/cm)  146.8  144.5  144.4  143.6  144.8  NALYSIS AL (8010) (8020 AH) (NWTPH activity) (TDS	D.O. (mg/L)  4.62  4.61  4.57  4.61  4.60  LOWED PE  (NWTPH-I-D) (	6.05 6.07 6.08 6.08 6.07 CR BOTTLE G) (NWTPF PH-Dx) (TPF BOD) (Turbital Kiedahl N	ORP (mV)  20.2  19.4  18.9  19.0  19.4  TYPE (Circle all-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity	#DIV/0! pplicable or write to (8141) (Oil & G.) (HCO3/CO3) (G.)	DTW (ft)	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 6.9 6.9 7.0 7.0 7.0 7.0 (8260-SIM) (8270D) (PA (PH) (Condu (COD) (Total Cyanid	Cond. (uS/cm)  146.8  144.5  144.4  143.6  144.8  NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS	D.O. (mg/L)  4.62  4.61  4.57  4.61  4.60  LOWED PF () (NWTPH-I-D)	6.05 6.07 6.08 6.08 6.07 CR BOTTLE G) (NWTPI PH-Dx) (TPI GOD) (Turbi tal Kiedahl N	ORP (mV)  20.2  19.4  18.9  19.0  19.4  TYPE (Circle a)  H-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity (itrogen) (NH3)	#DIV/0! pplicable or write to (8141) (Oil & G.) (HCO3/CO3) (G.)	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	malysis below) WA  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
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 6.9 6.9 7.0 7.0 7.0 7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  146.8  144.5  144.4  143.6  144.8  NALYSIS AI (8010) (8020 AH) (NWTPH lectivity) (TDS C5310C) (Tot le) (WAD Cy ) (As) (Sb) (I	D.O. (mg/L)  4.62  4.61  4.57  4.61  4.60  LOWED PE  ) (NWTPH-I-D) (NWTPH-I-D) (NWTPH-I-D) (NWTPH-I-D) (To anide) (Free Ba) (Be) (Ca	6.05 6.07 6.08 6.08 6.07 ER BOTTLE G) (NWTPI PH-Dx) (TPI SOD) (Turbi ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  20.2  19.4  18.9  19.0  19.4  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write to the second of the	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 6.9 6.9 7.0 7.0 7.0 7 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  146.8  144.5  144.4  143.6  144.8  NALYSIS AL (8010) (8020 AH) (NWTPHactivity) (TDS (C5310C) (Totale) (WAD Cy () (As) (Sb) (detals) (As) (Sb) (St	D.O. (mg/L)  4.62  4.61  4.57  4.61  4.60  LOWED PE  ) (NWTPH-I-D) (NWTPH-I-D) (NWTPH-I-D) (NWTPH-I-D) (To anide) (Free Ba) (Be) (Ca	6.05 6.07 6.08 6.08 6.07 ER BOTTLE G) (NWTPI PH-Dx) (TPI SOD) (Turbi ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  20.2  19.4  18.9  19.0  19.4  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write to the second of the	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 6.9 6.9 7.0 7.0 7.0 7.0 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  146.8  144.5  144.4  143.6  144.8  NALYSIS AL (8010) (8020 AH) (NWTPHactivity) (TDS (C5310C) (Totale) (WAD Cy () (As) (Sb) (detals) (As) (Sb) (St	D.O. (mg/L)  4.62  4.61  4.57  4.61  4.60  LOWED PE  (NWTPH-I-D) (	6.05 6.07 6.08 6.08 6.07 ER BOTTLE G) (NWTPI PH-Dx) (TPI SOD) (Turbi ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  20.2  19.4  18.9  19.0  19.4  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write to the second of the	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 6.9 6.9 7.0 7.0 7.0 7.0 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  146.8  144.5  144.4  143.6  144.8  NALYSIS AI (8010) (8020  AH) (NWTPH activity) (TDS (25310C) (Total (WAD Cy)) (As) (Sb) (detals) (As) (Sb) (geshort list)	D.O. (mg/L)  4.62  4.61  4.57  4.61  4.60  LOWED PE  (NWTPH-I-D) (	6.05 6.07 6.08 6.08 6.07 ER BOTTLE G) (NWTPI PH-Dx) (TPI SOD) (Turbi ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  20.2  19.4  18.9  19.0  19.4  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write to the second of the	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 6.9 6.9 7.0 7.0 7.0 7.0 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  146.8  144.5  144.4  143.6  144.8  NALYSIS AI (8010) (8020  AH) (NWTPH activity) (TDS (25310C) (Total (WAD Cy)) (As) (Sb) (detals) (As) (Sb) (geshort list)	D.O. (mg/L)  4.62  4.61  4.57  4.61  4.60  LOWED PE  (NWTPH-I-D) (	6.05 6.07 6.08 6.08 6.07 ER BOTTLE G) (NWTPI PH-Dx) (TPI SOD) (Turbi ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  20.2  19.4  18.9  19.0  19.4  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write to the second of the	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 6.9 6.9 7.0 7.0 7.0 7.0 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  146.8  144.5  144.4  143.6  144.8  NALYSIS AI (8010) (8020  AH) (NWTPH activity) (TDS (25310C) (Total (WAD Cy)) (As) (Sb) (detals) (As) (Sb) (geshort list)	D.O. (mg/L)  4.62  4.61  4.57  4.61  4.60  LOWED PE  (NWTPH-I-D) (	6.05 6.07 6.08 6.08 6.07 ER BOTTLE G) (NWTPI PH-Dx) (TPI SOD) (Turbi ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  20.2  19.4  18.9  19.0  19.4  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write to the second of the	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 6.9 6.9 7.0 7.0 7.0 7.0 (S270D) (PA (PH) (Condu (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  146.8  144.5  144.4  143.6  144.8  NALYSIS AI (8010) (8020  AH) (NWTPH activity) (TDS (25310C) (Total (WAD Cy)) (As) (Sb) (detals) (As) (Sb) (geshort list)	D.O. (mg/L)  4.62  4.61  4.57  4.61  4.60  LOWED PE  (NWTPH-I-D) (	6.05 6.07 6.08 6.08 6.07 ER BOTTLE G) (NWTPI PH-Dx) (TPI SOD) (Turbi ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  20.2  19.4  18.9  19.0  19.4  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write to the second of the	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 6.9 6.9 7.0 7.0 7.0 7.0 (S270D) (PA (PH) (Condu (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth)	Cond. (uS/cm)  146.8  144.5  144.4  143.6  144.8  NALYSIS AI (8010) (8020  AH) (NWTPH activity) (TDS (25310C) (Total (WAD Cy)) (As) (Sb) (detals) (As) (Sb) (geshort list)	D.O. (mg/L) 4.62 4.61 4.57 4.61 4.60  LOWED PE () (NWTPH-I-D) (NWTF S) (TSS) (B tal PO4) (To anide) (Free Ba) (Be) (Ca anide) (Ba) (Be) (Ca anide) (Ca ani	6.05 6.07 6.08 6.08 6.07 ER BOTTLE G) (NWTPI PH-Dx) (TPI SOD) (Turbi ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  20.2  19.4  18.9  19.0  19.4  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write to the second of the	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 6.9 6.9 7.0 7.0 7.0 7.0 (S270D) (PA (PH) (Condu (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth)	Cond. (uS/cm)  146.8  144.5  144.4  143.6  144.8  NALYSIS AI (8010) (8020 AH) (NWTPHotivity) (TDS (C5310C) (Totale) (WAD Cy () (As) (Sb) (I fetals) (As) (Sb g short list)  nane Ethene Ac	D.O. (mg/L) 4.62 4.61 4.57 4.61 4.60  LOWED PE () (NWTPH-I-D) (NWTF S) (TSS) (B tal PO4) (To anide) (Free Ba) (Be) (Ca anide) (Ba) (Be) (Ca anide) (Ca ani	6.05 6.07 6.08 6.08 6.07 ER BOTTLE G) (NWTPI PH-Dx) (TPI SOD) (Turbi ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  20.2  19.4  18.9  19.0  19.4  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write to the second of the	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3  Duplicate San	Temp (°F/°C) 6.9 6.9 7.0 7.0 7.0 7.0 (S270D) (PA (PH) (Condu (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth)	Cond. (uS/cm)  146.8  144.5  144.4  143.6  144.8  NALYSIS AI (8010) (8020 AH) (NWTPHotivity) (TDS (C5310C) (Totale) (WAD Cy () (As) (Sb) (I fetals) (As) (Sb g short list)  nane Ethene Ac	D.O. (mg/L) 4.62 4.61 4.57 4.61 4.60  LOWED PE () (NWTPH-I-D) (NWTF S) (TSS) (B tal PO4) (To anide) (Free Ba) (Be) (Ca anide) (Ba) (Be) (Ca anide) (Ca ani	6.05 6.07 6.08 6.08 6.07 ER BOTTLE G) (NWTPI PH-Dx) (TPI SOD) (Turbi ttal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  20.2  19.4  18.9  19.0  19.4  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write to the second of the	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Nam	e:	Boeing Rent	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2021		_	Date/Time:	2/15/2021@	1147		
Sample Num	ıber:	RGW153S-	210215		Weather:	RAINY SNOW	ON GROUND	)	
Landau Repr	resentative:	AHA			•				
WATERIEV	/EL/WELL/PI	IRGE DATA							
Well Condition		Secure (YES)	)	Damaged (N	(0)	Describe:	FLUSHMOUN	JT	
DTW Before		8.41	Time:	- '	Flow through ce			GW Meter No.(s	s 10
	0 0 0	2/ 15/2021 @		End Purge:	_	2/ 15/2021 @	1144	Gallons Purged:	0.25
Purge water d			55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	
i uige water u	nsposed to.		55-gai Diuiii	-	Storage Talik	Ш Ground	Other	SHE IKLAIM	ENT STSTEM
Time	Temp (°F/°C)	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	` ′	(uS/cm) ls: Stablization	(mg/L) n of Paramet	ers for three	(mV) consecutive read	(NTU) lings within the fo	(ft) llowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1125	11.9	202.2	1.56	6.57	-92.9		8.41		
1128	12.0	212.2	0.68	6.57	-95.6		8.41		
	· <del></del>								
1131	12.0	213.3	0.54	6.57	-96.4		8.41		
1134	11.7	211.1	0.62	6.57	-96.6				
1137	10.9	204.3	0.62	6.56	-95.4				
1140	10.1	198.1	0.66	6.54	-93.6				
1142	9.6	194.8	0.73	6.52	-92.1				
SAMPLE CO	LLECTION I	DATA							
Sample Collec			Bailer		Pump/Pump Type	DED. BLADDER	-		
Made of:		Stainless Stee	el 🗖	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Was		Tap Rinse	DI Water	Dedicated			
	_		Ш	rap remse	□ Di Water	Dedicated			
I Rv Numerica	ıl Order)	Other							
(By Numerical Sample Description		Other	sheen etc.):	YELLOW B	ROWNISH LOV	V-MED TURB NO	ODOR NO SE	IFFN PARTICLI	ES IN SAMPLE
		—	, sheen, etc.):	YELLOW B	ROWNISH, LOV	V-MED TURB, NO	ODOR, NO SE	IEEN, PARTICLI	ES IN SAMPLE
•		—	D.O. (mg/L)	YELLOW B	ROWNISH, LOV ORP (mV)	V-MED TURB, NO  Turbidity  (NTU)	DTW (ft)	Ferrous iron (Fe II)	ES IN SAMPLE  Comments/ Observations
Sample Descr	Temp	turbidity, odor,	D.O.		ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr Replicate  1 2	Temp (°F/°C) 9.5	Cond. (uS/cm)  193.1	D.O. (mg/L) 0.72	<b>pH</b> 6.51 6.50	ORP (mV) -91.5	Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3	Temp (°F/°C) 9.5 9.5	Cond. (uS/cm) 193.1 192.6	D.O. (mg/L) 0.72 0.71	<b>pH</b> 6.51 6.50 6.50	ORP (mV) -91.5 -90.8	Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3 4	Temp (°F/°C) 9.5 9.5 9.4 9.3	Cond. (uS/cm)  193.1  192.6  191.3	D.O. (mg/L) 0.72 0.71 0.72 0.70	pH 6.51 6.50 6.50 6.48	ORP (mV) -91.5 -90.8 -90.3	Turbidity (NTU)	DTW	Ferrous iron	Comments/
Replicate  1 2 3	Temp (°F/°C) 9.5 9.5	Cond. (uS/cm) 193.1 192.6	D.O. (mg/L) 0.72 0.71	<b>pH</b> 6.51 6.50 6.50	ORP (mV) -91.5 -90.8	Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.5 9.5 9.4 9.3	Cond. (uS/cm)  193.1  192.6  191.3  190.6  191.9	D.O. (mg/L) 0.72 0.71 0.72 0.70 0.71	6.51 6.50 6.50 6.48 6.50	ORP (mV) -91.5 -90.8 -90.3 -89.4 -90.5	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.5 9.5 9.4 9.3 9.4	Cond. (uS/cm)  193.1  192.6  191.3  190.6  191.9	D.O. (mg/L) 0.72 0.71 0.72 0.70 0.71	6.51 6.50 6.50 6.48 6.50 CR BOTTLE	ORP (mV) -91.5 -90.8 -90.3 -89.4 -90.5	Turbidity (NTU)  #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.5 9.5 9.4 9.3 9.4 TYPICAL A (8260-SIM)	Cond. (uS/cm)  193.1  192.6  191.3  190.6  191.9  NALYSIS AL (8010) (8020)	D.O. (mg/L) 0.72 0.71 0.72 0.70 0.71  LOWED PE	6.51 6.50 6.50 6.48 6.50 CR BOTTLE	ORP (mV) -91.5 -90.8 -90.3 -89.4 -90.5 TYPE (Circle all-Gx) (BTEX)	Turbidity (NTU)  #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.5 9.5 9.4 9.3 9.4 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm)  193.1  192.6  191.3  190.6  191.9  NALYSIS AL (8010) (8020) AH) (NWTPH activity) (TDS	D.O. (mg/L)  0.72  0.71  0.72  0.70  0.71  LOWED PE  (NWTPH-ID) (N	6.51 6.50 6.48 6.50 CR BOTTLE G) (NWTPF PH-Dx) (TPF OD) (Turbic	ORP (mV)  -91.5  -90.8  -90.3  -89.4  -90.5  TYPE (Circle a) H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity	#DIV/0! pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6	DTW (ft)  non-standard a	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Comments/ Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.5 9.5 9.4 9.3 9.4 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction)	Cond. (uS/cm)  193.1  192.6  191.3  190.6  191.9  NALYSIS AL (8010) (8020)  AH) (NWTPH letivity) (TDS	D.O. (mg/L)  0.72  0.71  0.72  0.70  0.71  LOWED PE  0 (NWTPH-I-D)	6.51 6.50 6.48 6.50 CR BOTTLE G) (NWTPF PH-Dx) (TPF OD) (Turbic tal Kiedahl N	ORP (mV)  -91.5  -90.8  -90.3  -89.4  -90.5  TYPE (Circle a)  I-Gx) (BTEX)  I-HCID) (8081)	#DIV/0! pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6	DTW (ft)  non-standard a	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Comments/ Observations  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 9.5 9.5 9.4 9.3 9.4 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm)  193.1  192.6  191.3  190.6  191.9  NALYSIS AL (8010) (8020)  AH) (NWTPH (activity) (TDS) (C5310C) (Total	D.O. (mg/L)  0.72  0.71  0.72  0.70  0.71  LOWED PF  0. (NWTPH-I-D) (NWTPH-I-D	6.51 6.50 6.48 6.50 CR BOTTLE G) (NWTPP PH-Dx) (TPPI OD) (Turbi tal Kiedahl N Cyanide)	ORP (mV)  -91.5  -90.8  -90.3  -89.4  -90.5  TYPE (Circle a) I-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2)	non-standard a	Ferrous iron (Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Comments/ Observations  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.5  9.5  9.4  9.3  9.4  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  193.1  192.6  191.3  190.6  191.9  NALYSIS AL (8010) (8020)  AH) (NWTPH (activity) (TDS (C5310C) (Totale) (WAD Cyallo) (As) (Sb) (E	D.O. (mg/L)  0.72  0.71  0.72  0.70  0.71  LOWED PE () (NWTPH-I-D)	6.51 6.50 6.48 6.50 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbital Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -91.5 -90.8 -90.3 -89.4 -90.5  TYPE (Circle ald Grant (Circle ald Grant (Circle)) H-HCID) (8081) dity) (Alkalinity (Itrogen) (NH3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  OOO WA  O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.5  9.5  9.4  9.3  9.4  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm)  193.1  192.6  191.3  190.6  191.9  NALYSIS AL (8010) (8020) AH) (NWTPH (activity) (TDS) (C5310C) (Totale) (WAD Cyallo) (As) (Sb) (Eetals) (As) (Sb) (Eetals) (As) (Sb)	D.O. (mg/L)  0.72  0.71  0.72  0.70  0.71  LOWED PE () (NWTPH-I-D)	6.51 6.50 6.48 6.50 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbital Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -91.5 -90.8 -90.3 -89.4 -90.5  TYPE (Circle ald Grant (Circle ald Grant (Circle)) H-HCID) (8081) dity) (Alkalinity (Itrogen) (NH3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  OOO WA  O	Comments/ Observations  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 9.5 9.5 9.4 9.3 9.4 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  193.1  192.6  191.3  190.6  191.9  NALYSIS AL (8010) (8020)  AH) (NWTPH activity) (TDS C5310C) (Totale) (WAD Cyal) (As) (Sb) (Eetals) (As) (Sb) g short list)	D.O. (mg/L)  0.72  0.71  0.72  0.70  0.71  LOWED PE () (NWTPH-I-D)	6.51 6.50 6.48 6.50 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbital Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -91.5 -90.8 -90.3 -89.4 -90.5  TYPE (Circle ald Grant (Circle ald Grant (Circle)) H-HCID) (8081) dity) (Alkalinity (Itrogen) (NH3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  OOO WA  O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 9.5 9.5 9.4 9.3 9.4 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  193.1  192.6  191.3  190.6  191.9  NALYSIS AL (8010) (8020) AH) (NWTPH (activity) (TDS) (C5310C) (Totale) (WAD Cyallo) (As) (Sb) (Eetals) (As) (Sb) (Eetals) (As) (Sb)	D.O. (mg/L)  0.72  0.71  0.72  0.70  0.71  LOWED PE () (NWTPH-I-D)	6.51 6.50 6.48 6.50 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbital Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -91.5 -90.8 -90.3 -89.4 -90.5  TYPE (Circle ald Grant (Circle ald Grant (Circle)) H-HCID) (8081) dity) (Alkalinity (Itrogen) (NH3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  OOO WA  O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 9.5 9.5 9.4 9.3 9.4 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  193.1  192.6  191.3  190.6  191.9  NALYSIS AL (8010) (8020)  AH) (NWTPH activity) (TDS C5310C) (Totale) (WAD Cyal) (As) (Sb) (Eetals) (As) (Sb) g short list)	D.O. (mg/L)  0.72  0.71  0.72  0.70  0.71  LOWED PE () (NWTPH-I-D)	6.51 6.50 6.48 6.50 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbital Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -91.5 -90.8 -90.3 -89.4 -90.5  TYPE (Circle ald Grant (Circle ald Grant (Circle)) H-HCID) (8081) dity) (Alkalinity (Itrogen) (NH3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  OOO WA  O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.5  9.5  9.4  9.3  9.4  TYPICAL A (8260-SIM) (8270D) (PA (COD) (TOO (Total Cyanical Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  193.1  192.6  191.3  190.6  191.9  NALYSIS AL (8010) (8020)  AH) (NWTPH activity) (TDS C5310C) (Totale) (WAD Cyal) (As) (Sb) (Eetals) (As) (Sb) g short list)	D.O. (mg/L)  0.72  0.71  0.72  0.70  0.71  LOWED PE () (NWTPH-I-D)	6.51 6.50 6.48 6.50 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbital Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -91.5 -90.8 -90.3 -89.4 -90.5  TYPE (Circle ald Grant (Circle ald Grant (Circle)) H-HCID) (8081) dity) (Alkalinity (Itrogen) (NH3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  OOO WA  O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 9.5 9.5 9.4 9.3 9.4 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  193.1  192.6  191.3  190.6  191.9  NALYSIS AL (8010) (8020)  AH) (NWTPH activity) (TDS C5310C) (Totale) (WAD Cyal) (As) (Sb) (Eetals) (As) (Sb) g short list)	D.O. (mg/L)  0.72  0.71  0.72  0.70  0.71  LOWED PE () (NWTPH-I-D)	6.51 6.50 6.48 6.50 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbital Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -91.5 -90.8 -90.3 -89.4 -90.5  TYPE (Circle ald Grant (Circle ald Grant (Circle)) H-HCID) (8081) dity) (Alkalinity (Itrogen) (NH3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  OOO WA  O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.5  9.5  9.4  9.3  9.4  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanica (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  193.1  192.6  191.3  190.6  191.9  NALYSIS AL (8010) (8020)  AH) (NWTPH activity) (TDS C5310C) (Totale) (WAD Cyal) (As) (Sb) (Eetals) (As) (Sb) g short list)	D.O. (mg/L)  0.72  0.71  0.72  0.70  0.71  LOWED PE () (NWTPH-I-D)	6.51 6.50 6.48 6.50 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbital Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV) -91.5 -90.8 -90.3 -89.4 -90.5  TYPE (Circle ald Grant (Circle ald Grant (Circle)) H-HCID) (8081) dity) (Alkalinity (Itrogen) (NH3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  OOO WA  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:		Feb. 2021			Date/Time:	2/15/2021@	1126		
Sample Num	ıber:	RGW172S-	210215		Weather:	RAIN			
Landau Repr	resentative:	JAN							
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Conditio	n:	Secure (YES	)	Damaged (N	O)	Describe:	FLUSHMOUN	ЛТ	
DTW Before	Purging (ft)	8.53	Time:	1059	Flow through ce	ll vol.		GW Meter No.(	s 11
Begin Purge:	Date/Time:	2/15/2021 @	1101	End Purge:	Date/Time:	2/15/2021 @	1122	Gallons Purged:	0.25
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	s: Stablizatio	n of Paramet			lings within the fo	llowing limits	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1104	10.0	323.4	2.25	6.83	-62.5		8.59		
1107	8.7	341.3	2.07	6.81	-79.8		8.59		
1110	7.9	322.2	1.58	6.83	-90.2		8.59		
1113	7.5	309.5	1.37	6.84	-94.9				
1116	7.2	297.1	1.19	6.85	-96.2				
1119	7.0	283.1	1.14	6.84	-93.9				
1121	7.0	278.8	1.11	6.83	-92.9				
CAMPLECO	LIECTIONE								
SAMPLE CO			Bailer		Dumn/Dumn Tyrns	DED. BLADDER			
Made of:	cied with.	Stainless Stee	_	PVC	Teflon	Polyethylene		Dedicated	
					₩		□ Other	Dedicated	
Decon Proced (By Numerical		Alconox Was	sn 🔲	Tap Rinse	DI Water	Dedicated			
		Other	ahaan ata )ı	TANICH I	OW TUDD NOW	IC.			
			, sheen, etc.):	TANISH, LO	OW TURB, NO/N	IS.			
			D.O. (mg/L)	TANISH, LO	OW TURB, NO/N ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	iption (color, t	turbidity, odor	D.O.		ORP	Turbidity			
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity			
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm) 279.9	D.O. (mg/L)	<b>рН</b> 6.83	ORP (mV)	Turbidity			
Replicate  1 2	Temp (°F/°C) 7.0	Cond. (uS/cm) 279.9	D.O. (mg/L) 1.13 1.12	pH 6.83 6.82	ORP (mV) -92.4 -91.9	Turbidity			
Replicate  1 2 3	Temp (°F/°C) 7.0 7.0	Cond. (uS/cm) 279.9 280.4 281.0	D.O. (mg/L) 1.13 1.12	pH 6.83 6.82 6.82	ORP (mV) -92.4 -91.9	Turbidity			
Replicate  1 2 3 4 Average:	Temp (°F/°C) 7.0 7.0 7.0 7.0	Cond. (uS/cm) 279.9 280.4 281.0 277.0 279.6	D.O. (mg/L)  1.13  1.12  1.10  1.12	6.83 6.82 6.82 6.82	ORP (mV) -92.4 -91.9 -91.3 -90.9	Turbidity (NTU)  #DIV/0!	(ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0 7.0	Cond. (uS/cm) 279.9 280.4 281.0 277.0 279.6	D.O. (mg/L)  1.13  1.12  1.10  1.12  LOWED PE	6.83 6.82 6.82 6.82 6.82	ORP (mV) -92.4 -91.9 -91.3 -90.9 -91.6  TYPE (Circle a)	Turbidity (NTU)	(ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0 7.0 7.0	Cond. (uS/cm) 279.9 280.4 281.0 277.0 279.6 NALYSIS AI (8010) (8020	D.O. (mg/L)  1.13  1.12  1.12  1.10  1.12  LOWED PE () (NWTPH-	6.83 6.82 6.82 6.82 6.82 6.82 G. R BOTTLE	ORP (mV) -92.4 -91.9 -91.3 -90.9 -91.6 TYPE (Circle and H-Gx) (BTEX)	Turbidity (NTU)  #DIV/0!  pplicable or write	(ft)	nalysis below)	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  7.0  7.0  7.0  7.0  7.0  7.0  7.0  7.	Cond. (uS/cm) 279.9 280.4 281.0 277.0 279.6  NALYSIS AI (8010) (8020)	D.O. (mg/L)  1.13  1.12  1.10  1.12  LOWED PE  ) (NWTPH-H-D) (NWTPH-D) (NWTPH-D)	6.83 6.82 6.82 6.82 6.82 GR BOTTLE G) (NWTPI	ORP (mV)  -92.4  -91.9  -91.3  -90.9  -91.6  TYPE (Circle apolity (BTEX)  H-HCID) (8081)	Turbidity (NTU)  #DIV/0!	non-standard a	nalysis below) WA  WA  WA	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C)  7.0  7.0  7.0  7.0  7.0  7.0  7.0  (8260-SIM)  (8270D) (PA	Cond. (uS/cm) 279.9 280.4 281.0 277.0 279.6 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS)	D.O. (mg/L)  1.13  1.12  1.10  1.12  1.10  1.112  LOWED PE  O) (NWTPH-H-D) (NW	6.83 6.82 6.82 6.82 6.82 6.82 GR BOTTLE G) (NWTPF	ORP (mV)  -92.4  -91.9  -91.3  -90.9  -91.6  TYPE (Circle apolity (BTEX)  H-HCID) (8081)	#DIV/0! pplicable or write  (8141) (Oil & G	non-standard a	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.0  7.0  7.0  7.0  7.0  7.0  7.0  (8260-SIM)  (8270D) (PA(pH) (Conduction) (TOO	Cond. (uS/cm) 279.9 280.4 281.0 277.0 279.6 NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS)	D.O. (mg/L)  1.13  1.12  1.10  1.12  1.10  1.12  LOWED PE D) (NWTPH-I-D) (NWTP	6.83 6.82 6.82 6.82 6.82 6.82 GR BOTTLE G) (NWTPH-H-Dx) (TPH-DX) (TPH-DX) (TPH-DX) (TPH-DX) (TPH-DX) (TURB) (TH-DX) (TURB) (TH-DX) (TURB) (TH-DX) (TURB) (TU	ORP (mV)  -92.4  -91.9  -91.3  -90.9  -91.6  TYPE (Circle all-Gx) (BTEX)  H-HCID) (8081)  dity) (Alkalinity)	#DIV/0! pplicable or write  (8141) (Oil & G	non-standard a	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.0  7.0  7.0  7.0  7.0  7.0  7.0  (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid	Cond. (uS/cm) 279.9 280.4 281.0 277.0 279.6  NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (25310C) (To ge) (WAD Cy	D.O. (mg/L)  1.13  1.12  1.10  1.12  1.10  1.12  LOWED PE  O (NWTPH-H-D) (NWTP	6.83 6.82 6.82 6.82 6.82 CR BOTTLE G) (NWTPP PH-Dx) (TPP OD) (Turbic tal Kiedahl N Cyanide)	ORP (mV)  -92.4  -91.9  -91.3  -90.9  -91.6  TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity itrogen) (NH3)	#DIV/0! pplicable or write  (8141) (Oil & G	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  ONE OF THE OF T	Observations  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.0  7.0  7.0  7.0  7.0  7.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 279.9 280.4 281.0 277.0 279.6  NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (5310C) (Toc (e) (WAD Cy (das) (Sb) (cetals) (As) (Sb) (cetals)	D.O. (mg/L)  1.13  1.12  1.10  1.12  1.10  1.12  LOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Capanide) (Free Ba) (Be) (Capanide) (C	6.83 6.82 6.82 6.82 6.82 6.82 6.80 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -92.4  -91.9  -91.3  -90.9  -91.6  TYPE (Circle alder (Circle alder (Circle))  H-HCID) (8081)  dity) (Alkalinity) (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   ON  WA    WA   ON  WA    WA   ON  WA    WA    WA    WA    WA    WA    WA    WA   WA    WA    WA    WA    WA    WA    WA    WA    WA   WA   WA    WA    WA   WA   WA   WA   WA   WA   WA   WA   WA   WA   WA   WA   WA	Observations  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 279.9 280.4 281.0 277.0 279.6 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (Total (WAD Cy)) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  1.13  1.12  1.10  1.12  1.10  1.12  LOWED PE  O (NWTPH-I-D) (NWTP	6.83 6.82 6.82 6.82 6.82 6.82 6.80 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -92.4  -91.9  -91.3  -90.9  -91.6  TYPE (Circle alder (Circle alder (Circle))  H-HCID) (8081)  dity) (Alkalinity) (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   ON  WA    WA   ON  WA    WA   ON  WA    WA    WA    WA    WA    WA    WA    WA   WA    WA    WA    WA    WA    WA    WA    WA    WA   WA   WA    WA    WA   WA   WA   WA   WA   WA   WA   WA   WA   WA   WA   WA   WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 279.9 280.4 281.0 277.0 279.6  NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (5310C) (Toc (e) (WAD Cy (das) (Sb) (cetals) (As) (Sb) (cetals)	D.O. (mg/L)  1.13  1.12  1.10  1.12  1.10  1.12  LOWED PE  O (NWTPH-I-D) (NWTP	6.83 6.82 6.82 6.82 6.82 6.82 6.80 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -92.4  -91.9  -91.3  -90.9  -91.6  TYPE (Circle alder (Circle alder (Circle))  H-HCID) (8081)  dity) (Alkalinity) (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   ON  WA    WA   ON  WA    WA   ON  WA    WA    WA    WA    WA    WA    WA    WA   WA    WA    WA    WA    WA    WA    WA    WA    WA   WA   WA    WA    WA   WA   WA   WA   WA   WA   WA   WA   WA   WA   WA   WA   WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 279.9 280.4 281.0 277.0 279.6 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (Total (WAD Cy)) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  1.13  1.12  1.10  1.12  1.10  1.12  LOWED PE  O (NWTPH-I-D) (NWTP	6.83 6.82 6.82 6.82 6.82 6.82 6.80 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -92.4  -91.9  -91.3  -90.9  -91.6  TYPE (Circle alder (Circle alder (Circle))  H-HCID) (8081)  dity) (Alkalinity) (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   ON  WA    WA   ON  WA   ON  WA    WA   ON  WA    WA   ON  WA    WA   WA    WA    WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.0  7.0  7.0  7.0  7.0  7.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 279.9 280.4 281.0 277.0 279.6 NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TDS (25310C) (Total (WAD Cy)) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  1.13  1.12  1.10  1.12  1.10  1.12  LOWED PE  O (NWTPH-I-D) (NWTP	6.83 6.82 6.82 6.82 6.82 6.82 6.80 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -92.4  -91.9  -91.3  -90.9  -91.6  TYPE (Circle alder (Circle alder (Circle))  H-HCID) (8081)  dity) (Alkalinity) (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   ON  WA    WA   ON  WA   ON  WA    WA   ON  WA    WA   ON  WA    WA   WA    WA    WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  279.9  280.4  281.0  277.0  279.6  NALYSIS AI (8010) (8020  AH) (NWTPH (ctivity) (TDS) (25310C) (To- (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb (g short list)	D.O. (mg/L)  1.13  1.12  1.10  1.12  1.10  1.12  LOWED PE  O (NWTPH-I-D) (NWTP	6.83 6.82 6.82 6.82 6.82 6.82 6.80 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -92.4  -91.9  -91.3  -90.9  -91.6  TYPE (Circle alder (Circle alder (Circle))  H-HCID) (8081)  dity) (Alkalinity) (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   ON  WA    WA   ON  WA   ON  WA    WA   ON  WA    WA   ON  WA    WA   WA    WA    WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.0  7.0  7.0  7.0  7.0  7.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  279.9  280.4  281.0  277.0  279.6  NALYSIS AI (8010) (8020  AH) (NWTPH (ctivity) (TDS) (25310C) (To- (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb (g short list)	D.O. (mg/L)  1.13  1.12  1.10  1.12  1.10  1.12  LOWED PE  O (NWTPH-I-D) (NWTP	6.83 6.82 6.82 6.82 6.82 6.82 6.80 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -92.4  -91.9  -91.3  -90.9  -91.6  TYPE (Circle alder (Circle alder (Circle))  H-HCID) (8081)  dity) (Alkalinity) (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   ON  WA    WA   ON  WA   ON  WA    WA   ON  WA    WA   ON  WA    WA   WA    WA    WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.0  7.0  7.0  7.0  7.0  7.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  279.9  280.4  281.0  277.0  279.6  NALYSIS AI (8010) (8020  AH) (NWTPH (ctivity) (TDS) (25310C) (To- (e) (WAD Cy) (As) (Sb) (etals) (As) (Sb (g short list)	D.O. (mg/L)  1.13  1.12  1.10  1.12  1.10  1.12  LOWED PE  O (NWTPH-I-D) (NWTP	6.83 6.82 6.82 6.82 6.82 6.82 6.80 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -92.4  -91.9  -91.3  -90.9  -91.6  TYPE (Circle alder (Circle alder (Circle))  H-HCID) (8081)  dity) (Alkalinity) (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   ON  WA    WA   ON  WA   ON  WA    WA   ON  WA    WA   ON  WA    WA   WA    WA    WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Nam	ne:	Boeing Rent	on		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2021			Date/Time:	2/15/2021@	1317		
Sample Nun	nber:	RGW173S-	210215		Weather:	RAINY SNOW	ON GROUND	1	
Landau Rep	resentative:								
WATERIEV	VEL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES)	1	Damaged (N	(O)	Describe:	FLUSHMOUN	JT	
		8.51	Time:	- ,	Flow through ce		T ECONING CT		s 10
DTW Before	Date/Time:				-		1212	GW Meter No.(s	
		$\overline{}$	1251	End Purge:		2/ 15/2021 @	_	Gallons Purged:	0.25
Purge water of	isposed to:	ш	55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENI SYSIEM
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%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1254	10.7	258.7	0.62	6.53	-87.4		8.61		
1257	10.5	258.2	0.54	6.54	-87.9		8.61		
1300	9.3	245.7	0.59	6.55	-87.3		8.61		
1303	8.6	239.9	0.65	6.55	-86.5				
							-		
1306		232.6	0.73	6.49	-82.2	-		. ———	-
1309	8.1	229.7	0.73	6.47	-80.3				
1311	8.0	228.6	0.71	6.46	-79.2				
SAMPLE CO	LLECTION D	OATA							
Sample Colle	ected With:		Bailer		Pump/Pump Type	DED. BLADDER	-		
Made of:		Stainless Stee	ıl 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee	dure:	Alconox Was	h 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	al Order)	Other			—				
		ш.							
Sample Desc	ription (color, t	turbidity, odor,	sheen, etc.):	NO COLOR	, LOW TURB, N	O ODOR, NO SHE	EN		
Sample Desc	ription (color, t	turbidity, odor,	sheen, etc.):	NO COLOR	, LOW TURB, N	O ODOR, NO SHE	EN		
Sample Describer	Temp	Cond.	D.O.	NO COLOR	ORP	Turbidity	DTW	Ferrous iron	Comments/
			<u>-</u>					Ferrous iron (Fe II)	Comments/ Observations
	Temp	Cond.	D.O.		ORP	Turbidity	DTW		
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	рН	ORP (mV)	Turbidity	DTW		
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	<b>рН</b> 6.46	ORP (mV)	Turbidity	DTW		
Replicate  1 2	Temp (°F/°C) 8	Cond. (uS/cm) 228.6	D.O. (mg/L) 0.68 0.72	pH 6.46 6.46	ORP (mV) -79.1	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 8 8 8	Cond. (uS/cm) 228.6 228.4 228.5	D.O. (mg/L) 0.68 0.72 0.70	pH  6.46  6.46  6.46	ORP (mV) -79.1 -78.9 -78.8	Turbidity	DTW		
Replicate  1 2 3 4 Average:	Temp (°F/°C)	Cond. (uS/cm) 228.6 228.4 228.5 228.4 228.5	D.O. (mg/L) 0.68 0.72 0.70 0.68	6.46 6.46 6.46 6.46 6.46	ORP (mV) -79.1 -78.9 -78.8 -78.7	Turbidity (NTU)  #DIV/0!	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C)	Cond. (uS/cm) 228.6 228.4 228.5 228.4 228.5 NALYSIS AL	D.O. (mg/L) 0.68 0.72 0.70 0.68 0.70	pH  6.46  6.46  6.46  6.46  6.46  6.46	ORP (mV)  -79.1  -78.9  -78.8  -78.7  -78.9  TYPE (Circle a)	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8 8 8 8 8 8.0 TYPICAL A (8260-SIM)	Cond. (uS/cm) 228.6 228.4 228.5 228.4 228.5 NALYSIS AL (8010) (8020)	D.O. (mg/L)  0.68  0.72  0.70  0.68  0.70  LOWED PI  (NWTPH-	6.46 6.46 6.46 6.46 6.46 ER BOTTLE	ORP (mV) -79.1 -78.9 -78.8 -78.7 -78.9  TYPE (Circle appl-Gx) (BTEX)	Turbidity (NTU)  #DIV/0!  pplicable or write	DTW (ft)	nalysis below)	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8 8 8 8 8.0  TYPICAL A (8260-SIM) (8270D) (PA	Cond. (uS/cm) 228.6 228.4 228.5 228.4 228.5 NALYSIS AL (8010) (8020)	D.O. (mg/L)  0.68  0.72  0.70  0.68  0.70  1.0WED PI  1. (NWTPH-I-D) (NWTPH-I-D) (NWTIPH-I-D) (N	6.46 6.46 6.46 6.46 6.46 6.46 ER BOTTLE G) (NWTPI	ORP (mV)  -79.1  -78.9  -78.7  -78.9  TYPE (Circle application of the company of	#DIV/0!	DTW (ft)	nalysis below) WA  WA  WA	Observations
Replicate  1 2 3 4 Average:  QUANTITY 9	Temp (°F/°C)  8  8  8  8  8.0  TYPICAL A (8260-SIM) (8270D) (PA) (pH) (Condu	Cond. (uS/cm) 228.6 228.4 228.5 228.4 228.5 NALYSIS AL (8010) (8020) AH) (NWTPH activity) (TDS	D.O. (mg/L)  0.68  0.72  0.70  0.68  0.70  LOWED PI  0 (NWTPH-ID) (NWTI	6.46 6.46 6.46 6.46 6.46 6.46 CER BOTTLE G) (NWTPP PH-Dx) (TPI BOD) (Turbi	ORP (mV)  -79.1  -78.9  -78.7  -78.9  TYPE (Circle application of the content of	#DIV/0!  pplicable or write (8141) (Oil & G) (HCO3/CO3) (6	DTW (ft)	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8  8  8  8  8.0  TYPICAL A (8260-SIM) (8270D) (PA) (pH) (Condu	Cond. (uS/cm) 228.6 228.4 228.5 228.4 228.5 NALYSIS AL (8010) (8020) (AH) (NWTPH activity) (TDS (25310C) (Tot	D.O. (mg/L)  0.68  0.72  0.70  0.68  0.70  LOWED PI  0 (NWTPH-I-D) (NWTI  0 (TSS) (Eal PO4) (To	6.46 6.46 6.46 6.46 6.46 CER BOTTLE G) (NWTPF PH-Dx) (TPI BOD) (Turbi otal Kiedahl N	ORP (mV)  -79.1  -78.9  -78.7  -78.9  TYPE (Circle application of the company of	#DIV/0!  pplicable or write (8141) (Oil & G) (HCO3/CO3) (6	DTW (ft)	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:  QUANTITY 9	Temp (°F/°C)	Cond. (uS/cm)  228.6  228.4  228.5  228.4  228.5  NALYSIS AL (8010) (8020)  CH) (NWTPH (ctivity) (TDS)  C5310C) (Tot (e) (WAD Cy.	D.O. (mg/L)  0.68  0.72  0.70  0.68  0.70  LOWED PI  (NWTPH-ED) (NWTI  (FD) (NWTI  (FD) (TSS) (ED)	6.46 6.46 6.46 6.46 6.46 CER BOTTLE G) (NWTPI PH-Dx) (TPI BOD) (Turbi otal Kiedahl N C Cyanide)	ORP (mV)  -79.1  -78.9  -78.8  -78.7  -78.9  TYPE (Circle application of the company of the comp	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (O (NO3/NO2)	DTW (ft)  non-standard a  rease) 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 □
Replicate  1 2 3 4 Average:  QUANTITY 9	Temp (°F/°C)  8  8  8  8  8.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 228.6 228.4 228.5 228.4 228.5 NALYSIS AL (8010) (8020) AH) (NWTPH activity) (TDS C5310C) (Totale) (WAD Cyal) (As) (Sb) (B	D.O. (mg/L)  0.68  0.72  0.70  0.68  0.70  LOWED PI () (NWTPH-I-D) (NWTI) (s) (TSS) (Eal PO4) (Total P	6.46 6.46 6.46 6.46 ER BOTTLE G) (NWTPP PH-Dx) (TPI BOD) (Turbi otal Kiedahl N e Cyanide) a) (Cd) (Co)	ORP (mV)  -79.1  -78.9  -78.8  -78.7  -78.9  TYPE (Circle ald H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) (Itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (G (NO3/NO2)	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  OB WA  OB WA  OB WA  OB WA  WA  OB WA  OB WA  WA  OB WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 9	Temp (°F/°C)  8  8  8  8  8.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  228.6  228.4  228.5  228.4  228.5  NALYSIS AL (8010) (8020)  AH) (NWTPH (activity) (TDS) (25310C) (Tot (be) (WAD Cya) (c) (As) (Sb) (Betals) (As) (Sb) (Sb)	D.O. (mg/L)  0.68  0.72  0.70  0.68  0.70  LOWED PI () (NWTPH-I-D) (NWTI) (s) (TSS) (Eal PO4) (Total P	6.46 6.46 6.46 6.46 ER BOTTLE G) (NWTPP PH-Dx) (TPI BOD) (Turbi otal Kiedahl N e Cyanide) a) (Cd) (Co)	ORP (mV)  -79.1  -78.9  -78.8  -78.7  -78.9  TYPE (Circle ald H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) (Itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (G (NO3/NO2)	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  OB WA  OB WA  OB WA  OB WA  WA  OB WA  OB WA  WA  OB WA	Observations  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 9	Temp (°F/°C)  8  8  8  8  8  8.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M-	Cond. (uS/cm)  228.6  228.4  228.5  228.4  228.5  NALYSIS AL (8010) (8020)  AH) (NWTPH (activity) (TDS) (25310C) (Tot (be) (WAD Cya) (c) (As) (Sb) (Betals) (As) (Sb) (Sb)	D.O. (mg/L)  0.68  0.72  0.70  0.68  0.70  LOWED PI  () (NWTPH-I-D) (NWTI  () (TSS) (Eal PO4) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba	6.46 6.46 6.46 6.46 ER BOTTLE G) (NWTPP PH-Dx) (TPI BOD) (Turbi otal Kiedahl N e Cyanide) a) (Cd) (Co)	ORP (mV)  -79.1  -78.9  -78.8  -78.7  -78.9  TYPE (Circle ald H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) (Itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (G (NO3/NO2)	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  OB WA  OB WA  OB WA  OB WA  WA  OB WA  OB WA  WA  OB WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 9	Temp (°F/°C)  8  8  8  8  8  8.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M-	Cond. (uS/cm)  228.6  228.4  228.5  228.4  228.5  NALYSIS AL (8010) (8020)  AH) (NWTPH (ctivity) (TDS) (25310C) (Tot (e) (WAD Cya) (As) (Sb) (Betals) (As) (Sb (g short list)	D.O. (mg/L)  0.68  0.72  0.70  0.68  0.70  LOWED PI  () (NWTPH-I-D) (NWTI  () (TSS) (Eal PO4) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba	6.46 6.46 6.46 6.46 ER BOTTLE G) (NWTPP PH-Dx) (TPI BOD) (Turbi otal Kiedahl N e Cyanide) a) (Cd) (Co)	ORP (mV)  -79.1  -78.9  -78.8  -78.7  -78.9  TYPE (Circle ald H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) (Itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (G (NO3/NO2)	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  OB WA  OB WA  OB WA  OB WA  WA  OB WA  OB WA  WA  OB WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 9	Temp (°F/°C)  8  8  8  8  8  8.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M-	Cond. (uS/cm)  228.6  228.4  228.5  228.4  228.5  NALYSIS AL (8010) (8020)  AH) (NWTPH (ctivity) (TDS) (25310C) (Tot (e) (WAD Cya) (As) (Sb) (Betals) (As) (Sb (g short list)	D.O. (mg/L)  0.68  0.72  0.70  0.68  0.70  LOWED PI  () (NWTPH-I-D) (NWTI  () (TSS) (Eal PO4) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba	6.46 6.46 6.46 6.46 ER BOTTLE G) (NWTPP PH-Dx) (TPI BOD) (Turbi otal Kiedahl N e Cyanide) a) (Cd) (Co)	ORP (mV)  -79.1  -78.9  -78.8  -78.7  -78.9  TYPE (Circle ald H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) (Itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (G (NO3/NO2)	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  OB WA  OB WA  OB WA  OB WA  WA  OB WA  OB WA  WA  OB WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 9	Temp (°F/°C)  8  8  8  8  8  8.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M-	Cond. (uS/cm)  228.6  228.4  228.5  228.4  228.5  NALYSIS AL (8010) (8020)  AH) (NWTPH (ctivity) (TDS) (25310C) (Tot (e) (WAD Cya) (As) (Sb) (Betals) (As) (Sb (g short list)	D.O. (mg/L)  0.68  0.72  0.70  0.68  0.70  LOWED PI  () (NWTPH-I-D) (NWTI  () (TSS) (Eal PO4) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba	6.46 6.46 6.46 6.46 ER BOTTLE G) (NWTPP PH-Dx) (TPI BOD) (Turbi otal Kiedahl N e Cyanide) a) (Cd) (Co)	ORP (mV)  -79.1  -78.9  -78.8  -78.7  -78.9  TYPE (Circle ald H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) (Itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (G (NO3/NO2)	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  OB WA  OB WA  OB WA  OB WA  WA  OB WA  OB 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)  8  8  8  8  8.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein Methane Eth	Cond. (uS/cm)  228.6  228.4  228.5  228.4  228.5  NALYSIS AL (8010) (8020) AH) (NWTPH (activity) (TDS) (25310C) (Tot (ae) (WAD Cya) (be) (As) (Sb) (Betals) (As) (Sb) (getals) (As) (Sb) (getals) (As) (Sb) (getals) (As) (Sb) (here are a constant of the con	D.O. (mg/L)  0.68  0.72  0.70  0.68  0.70  LOWED PI  (NWTPH-I-D) (NWTI)  (S) (TSS) (Eal PO4) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Ba) (Be) (Ca) (Ba) (Be) (Ca) (Ba) (Be) (Ca) (Ca) (Ca)	6.46 6.46 6.46 6.46 ER BOTTLE G) (NWTPP PH-Dx) (TPI BOD) (Turbi otal Kiedahl N e Cyanide) a) (Cd) (Co)	ORP (mV)  -79.1  -78.9  -78.8  -78.7  -78.9  TYPE (Circle ald H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) (Itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (G (NO3/NO2)	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  OB WA  OB WA  OB WA  OB WA  WA  OB WA  OB 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)  8  8  8  8  8.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein Methane Eth	Cond. (uS/cm)  228.6  228.4  228.5  228.4  228.5  NALYSIS AL (8010) (8020)  AH) (NWTPH (ctivity) (TDS) (25310C) (Tot (e) (WAD Cya) (As) (Sb) (Betals) (As) (Sb (g short list)	D.O. (mg/L)  0.68  0.72  0.70  0.68  0.70  LOWED PI  (NWTPH-I-D) (NWTI)  (S) (TSS) (Eal PO4) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Ba) (Be) (Ca) (Ba) (Be) (Ca) (Ba) (Be) (Ca) (Ca) (Ca)	6.46 6.46 6.46 6.46 ER BOTTLE G) (NWTPP PH-Dx) (TPI BOD) (Turbi otal Kiedahl N e Cyanide) a) (Cd) (Co)	ORP (mV)  -79.1  -78.9  -78.8  -78.7  -78.9  TYPE (Circle ald H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) (Itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (G (NO3/NO2)	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  OB WA  OB WA  OB WA  OB WA  WA  OB WA  OB 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)  8  8  8  8  8.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M- VOC (Boein Methane Eth	Cond. (uS/cm)  228.6  228.4  228.5  228.4  228.5  NALYSIS AL (8010) (8020) AH) (NWTPH (activity) (TDS) (25310C) (Tot (ae) (WAD Cya) (be) (As) (Sb) (Betals) (As) (Sb) (getals) (As) (Sb) (getals) (As) (Sb) (getals) (As) (Sb) (here are a constant of the con	D.O. (mg/L)  0.68  0.72  0.70  0.68  0.70  LOWED PI  (NWTPH-I-D) (NWTI)  (S) (TSS) (Eal PO4) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Total PO4) (Ba) (Be) (Ca) (Ba) (Be) (Ca) (Ba) (Be) (Ca) (Ca) (Ca)	6.46 6.46 6.46 6.46 ER BOTTLE G) (NWTPP PH-Dx) (TPI BOD) (Turbi otal Kiedahl N e Cyanide) a) (Cd) (Co)	ORP (mV)  -79.1  -78.9  -78.8  -78.7  -78.9  TYPE (Circle ald H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity) (Itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (G (NO3/NO2)	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  OB WA  OB WA  OB WA  OB WA  WA  OB WA  OB WA  WA  OB WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2021		_	Date/Time:	2/17 /2021@	1302		
Sample Num	nber:	RGW176S-	210217		Weather:	CLOUDY			
Landau Repr	resentative:	AHA			•				
WATERIEV	/EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES	)	Damaged (N	(0)	Describe:	FLUSHMOUN	JT	
DTW Before		4.56	Time:		Flow through ce			GW Meter No.(s	s 10
	Date/Time:			End Purge:	-	2/ 17/2021 @.	1258	Gallons Purged:	0.25
Purge water d		2/17/2021@	55-gal Drum	Ĕ	Storage Tank	Ground		SITE TREATM	
i uige water u	isposed to.		55-gai Diuiii		Storage Talik	□ Ground	Other	SITE TREATM	ENT STSTEM
Time	Temp (°F/°C)	Cond.	D.O.	pН	ORP (mV)	Turbidity	DTW	Internal Purge	Comments/
Time	, ,	(uS/cm) s: Stablizatio	(mg/L) n of Paramet	ers for three	. ,	(NTU) lings within the fo	(ft) llowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1240	10.9	336.9	0.69	6.27	-76.4		4.56		
1243	10.3	332.9	0.59	6.27	-76.6		4.59		
	9.9						-		
1246		327.5	0.62	6.28	-76.4		4.59		
1249	9.8	325.1	0.69	6.27	-75.2				
1252	9.7	323.8	0.72	6.27	-74.5	_			
1255	9.8	324.2	0.81	6.28	-74.9				
1257	9.8	324.3	0.75	6.28	-76.6				
						-		· <del></del>	
SAMPLE CO	LLECTION D	DATA						· <del></del>	
Sample Colle			Bailer		Pump/Pump Type	DED. BLADDER			
Made of:	П	Stainless Ste	el 🗍	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Wa		Tap Rinse	DI Water	Dedicated	-		
Decon 1 loced	ш.	THEOHOX WA	311 WI	rap remse	Di Water	Dedicated			
(Ry Numerica	d Order)	Other			<del>-</del>	_			
(By Numerical		Other	· sheen etc.)·						
(By Numerical Sample Description		—	, sheen, etc.):						
•		—	D.O. (mg/L)	рН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	Temp	turbidity, odor	D.O.	<b>рН</b> 6.28		•			
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	•	(mV)	•			
Sample Descr Replicate	Temp (°F/°C) 9.8	Cond. (uS/cm)  324.3	D.O. (mg/L) 0.76	6.28	(mV) -76.9 -76.6	•			
Replicate  1 2 3	Temp (°F/°C) 9.8 9.8	Cond. (uS/cm)  324.3  324.2	D.O. (mg/L) 0.76 0.79	6.28 6.29 6.29	(mV) -76.9 -76.6 -76.4	•			
Replicate  1 2 3 4	Temp (°F/°C) 9.8 9.8 9.8	Cond. (uS/cm)  324.3  324.2  324.2	D.O. (mg/L) 0.76 0.79 0.74	6.28 6.29 6.29	(mV) -76.9 -76.6 -76.4 -76.6	(NTU)			
Replicate  1 2 3	Temp (°F/°C) 9.8 9.8	Cond. (uS/cm)  324.3  324.2	D.O. (mg/L) 0.76 0.79	6.28 6.29 6.29	(mV) -76.9 -76.6 -76.4	•			
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.8 9.8 9.8 9.8	Cond. (uS/cm)  324.3  324.2  324.2  324.3	D.O. (mg/L)  0.76  0.79  0.74  0.74  0.76	6.28 6.29 6.29 6.29 6.29	(mV) -76.9 -76.6 -76.4 -76.6 -76.6	(NTU)	(ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.8 9.8 9.8 9.8	Cond. (uS/cm)  324.3  324.2  324.2  324.2  324.3  NALYSIS AI	D.O. (mg/L)  0.76  0.79  0.74  0.74  0.76  LLOWED PE	6.28 6.29 6.29 6.29 6.29	(mV) -76.9 -76.6 -76.4 -76.6 -76.6 TYPE (Circle a)	(NTU)  #DIV/0!	(ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.8 9.8 9.8 9.8 9.8 1TYPICAL A (8260) (8010	Cond. (uS/cm)  324.3  324.2  324.2  324.3  NALYSIS AI  )) (8020) (N	D.O. (mg/L)  0.76  0.79  0.74  0.76  LLOWED PE	6.28 6.29 6.29 6.29 6.29 R BOTTLE	(mV) -76.9 -76.6 -76.4 -76.6 -76.6 TYPE (Circle a) (BTEX)	(NTU)  #DIV/0!	(ft)	nalysis below)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.8 9.8 9.8 9.8 9.8 1TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 324.3 324.2 324.2 324.3 NALYSIS AI () (8020) (N AH) (NWTPH intrivity) (TD:	D.O. (mg/L)  0.76  0.79  0.74  0.76  0.76  LLOWED PF  WYPH-G) (NWTH-G) (NWTH-G) (NWTH-G) (NWTH-G) (NWTH-G) (MTH-G) (MT	6.28 6.29 6.29 6.29 6.29 CR BOTTLE NWTPH-Gx; PH-Dx) (TPH-OD) (Turbic	(mV) -76.9 -76.6 -76.6 -76.6 -76.6 TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity	#DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6	non-standard a	nalysis below) WA  WA  WA	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.8 9.8 9.8 9.8 9.8 1TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 324.3 324.2 324.2 324.3 NALYSIS AI 0) (8020) (N CH) (NWTPH activity) (TDatal PO-	D.O. (mg/L)  0.76  0.79  0.74  0.76  0.76  LLOWED PERWITPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Total Kieden)	6.28 6.29 6.29 6.29 6.29 6.29 PH-Dx) (TPI	(mV) -76.9 -76.6 -76.6 -76.6 -76.6 TYPE (Circle a) (BTEX) H-HCID) (8081)	#DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6	non-standard a	nalysis below) WA  WA  WA	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.8 9.8 9.8 9.8 9.8 1 TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid	Cond. (uS/cm)  324.3  324.2  324.2  324.2  324.3  NALYSIS AI  (NWTPH activity) (TD: (C) (Total PO- le) (WAD Cy	D.O. (mg/L)  0.76  0.79  0.74  0.76  LLOWED PF  WTPH-G) (NWTP S) (TSS) (E 4) (Total Kie vanide) (Free	6.28 6.29 6.29 6.29 6.29 CR BOTTLE NWTPH-GX, PH-DX) (TPH-OD) (Turbidahl Nitroger Cyanide)	(mV) -76.9 -76.6 -76.4 -76.6 -76.6 TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity a) (NH3) (NO3	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  ON O	Observations  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.8  9.8  9.8  9.8  7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  324.3  324.2  324.2  324.2  324.3  NALYSIS AI  O) (8020) (N  CH) (NWTPF  Intervity) (TDt  C) (Total PO-  le) (WAD Cy  o) (As) (Sb) (	D.O. (mg/L)  0.76  0.79  0.74  0.76  LLOWED PERWYPH-G) (MYTPH-G) (	6.28 6.29 6.29 6.29 6.29 CR BOTTLE NWTPH-Gx PH-Dx) (TPH OD) (Turbit dahl Nitroger Cyanide) () (Cd) (Co)	(mV) -76.9 -76.6 -76.4 -76.6 -76.6  TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.8  9.8  9.8  9.8  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (TOG) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm)  324.3  324.2  324.2  324.3  NALYSIS AI  (I) (8020) (N (II) (NWTPH (ICT) (Total PO- (ICT) (Total PO- (ICT) (AS) (Sb) ((etals) (As) (Sb)	D.O. (mg/L)  0.76  0.79  0.74  0.76  LLOWED PERWYPH-G) (MYTPH-G) (	6.28 6.29 6.29 6.29 6.29 CR BOTTLE NWTPH-Gx PH-Dx) (TPH OD) (Turbit dahl Nitroger Cyanide) () (Cd) (Co)	(mV) -76.9 -76.6 -76.4 -76.6 -76.6  TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.8  9.8  9.8  9.8  7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOd (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 324.3 324.2 324.2 324.3 NALYSIS AI () (8020) (N () (NWTPH () (Total PO- (e) (WAD Cy () (As) (Sb) (etals) (As) (St () g short list)	D.O. (mg/L)  0.76  0.79  0.74  0.76  LLOWED PERMYPH-G) (MI-D) (NWTPH-G) (MI-D) (MI-D	6.28 6.29 6.29 6.29 6.29 CR BOTTLE NWTPH-Gx PH-Dx) (TPH OD) (Turbit dahl Nitroger Cyanide) () (Cd) (Co)	(mV) -76.9 -76.6 -76.4 -76.6 -76.6  TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.8  9.8  9.8  9.8  7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOd (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  324.3  324.2  324.2  324.3  NALYSIS AI  (I) (8020) (N (II) (NWTPH (ICT) (Total PO- (ICT) (Total PO- (ICT) (AS) (Sb) ((etals) (As) (Sb)	D.O. (mg/L)  0.76  0.79  0.74  0.76  LLOWED PERMYPH-G) (MI-D) (NWTPH-G) (MI-D) (MI-D	6.28 6.29 6.29 6.29 6.29 CR BOTTLE NWTPH-Gx PH-Dx) (TPH OD) (Turbit dahl Nitroger Cyanide) () (Cd) (Co)	(mV) -76.9 -76.6 -76.4 -76.6 -76.6  TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.8  9.8  9.8  9.8  7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOd (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 324.3 324.2 324.2 324.3 NALYSIS AI () (8020) (N () (NWTPH () (Total PO- (e) (WAD Cy () (As) (Sb) (etals) (As) (St () g short list)	D.O. (mg/L)  0.76  0.79  0.74  0.76  LLOWED PERMYPH-G) (MI-D) (NWTPH-G) (MI-D) (MI-D	6.28 6.29 6.29 6.29 6.29 CR BOTTLE NWTPH-Gx PH-Dx) (TPH OD) (Turbit dahl Nitroger Cyanide) () (Cd) (Co)	(mV) -76.9 -76.6 -76.4 -76.6 -76.6  TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.8  9.8  9.8  9.8  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 324.3 324.2 324.2 324.3 NALYSIS AI () (8020) (N () (NWTPH () (Total PO- (e) (WAD Cy () (As) (Sb) (etals) (As) (St () g short list)	D.O. (mg/L)  0.76  0.79  0.74  0.76  LLOWED PERMYPH-G) (MI-D) (NWTPH-G) (MI-D) (MI-D	6.28 6.29 6.29 6.29 6.29 CR BOTTLE NWTPH-Gx PH-Dx) (TPH OD) (Turbit dahl Nitroger Cyanide) () (Cd) (Co)	(mV) -76.9 -76.6 -76.4 -76.6 -76.6  TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.8  9.8  9.8  9.8  7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOd (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 324.3 324.2 324.2 324.3 NALYSIS AI () (8020) (N () (NWTPH () (Total PO- (e) (WAD Cy () (As) (Sb) (etals) (As) (St () g short list)	D.O. (mg/L)  0.76  0.79  0.74  0.76  LLOWED PERMYPH-G) (MI-D) (NWTPH-G) (MI-D) (MI-D	6.28 6.29 6.29 6.29 6.29 CR BOTTLE NWTPH-Gx PH-Dx) (TPH OD) (Turbit dahl Nitroger Cyanide) () (Cd) (Co)	(mV) -76.9 -76.6 -76.4 -76.6 -76.6  TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.8  9.8  9.8  9.8  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 324.3 324.2 324.2 324.3 NALYSIS AI () (8020) (N () (NWTPH () (Total PO- (e) (WAD Cy () (As) (Sb) (etals) (As) (St () g short list)	D.O. (mg/L)  0.76  0.79  0.74  0.76  LLOWED PERMYPH-G) (MI-D) (NWTPH-G) (MI-D) (MI-D	6.28 6.29 6.29 6.29 6.29 CR BOTTLE NWTPH-Gx PH-Dx) (TPH OD) (Turbit dahl Nitroger Cyanide) () (Cd) (Co)	(mV) -76.9 -76.6 -76.4 -76.6 -76.6  TYPE (Circle a) (BTEX) H-HCID) (8081) dity) (Alkalinity (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (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 <u>:</u>	0025217.099.0	99	
Event:		Feb. 2021			Date/Time:	2/ 17 /2021@	1250		
Sample Num	ber:	RGW178S-	210217		Weather:	OVERCAST, R	AIN, 40S		
Landau Repr	esentative:	BXM							
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Conditio	n:	Secure (YES	)	Damaged (N	O)	Describe:	FLUSH		
DTW Before I	Purging (ft)	7.1	Time:	1225	Flow through ce	ll vol.		GW Meter No.(s	s SLOPE 8
Begin Purge:	Date/Time:	2/ 17/2021	1227	End Purge:	Date/Time:	2/ 17 /2021 @	1249	Gallons Purged:	<1
Purge water di	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
	_					lings within the fo	_	>/= 1 flow	
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1230	10.5	360.9	0.35	6.2	13.7		7.03		
1233	10.4	361.8	0.37	6.22	11.7		7.04		
1236	10.2	353.9	0.46	6.22	2.8		7.01		
1239	10.1	350.4	0.51	6.22	-1.1		7.01		
1242	10.1	350.1	0.53	6.22	-2.6				
1245	10.1	349.4	0.57	6.23	-5.6		-		
1248	10.0	348.8	0.64	6.23	-8.8				
1248	10.0	348.8	0.04	0.23	-8.8	-			
SAMPLE CO	LIECTION	) A T A							
Sample Collect			Bailer		Pumn/Pumn Tyne	DED BLADDER			
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene		Dedicated	
Decon Proced	ure:	Alconox Wa	_	Tap Rinse	DI Water	Dedicated	<u> </u>	D vareaucu	
			sii <u></u>	rap Kinse	□ Di Water	Dedicated			
	l ()rder)	Other							
(By Numerical		Other	sheen etc.):	CLEAR CO	LORLESS NO	DOOR NO SHEEN	LIGHT FINE	SOLIDS	
		_	sheen, etc.):	CLEAR, CO	LORLESS, NO C	DOR, NO SHEEN	I, LIGHT FINE	SOLIDS	
		_	D.O. (mg/L)	CLEAR, CO	ORP (mV)	DDOR, NO SHEEN  Turbidity  (NTU)	DTW (ft)	Ferrous iron (Fe II)	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)	Cond. (uS/cm)	D.O. (mg/L)	<b>рН</b> 6.23	ORP (mV)	Turbidity	DTW	Ferrous iron	
Replicate  1 2	Temp (°F/°C) 10.0	Cond. (uS/cm) 348.7 348.4 348.3	D.O. (mg/L) 0.65	pH 6.23 6.23	ORP (mV) -9.1	Turbidity	DTW	Ferrous iron	
Replicate  1 2 3 4	Temp (°F/°C)  10.0  10.0  10.0	Cond. (uS/cm)  348.7  348.3  348.3	D.O. (mg/L) 0.65 0.65 0.66	pH 6.23 6.23 6.23 6.23	ORP (mV) -9.1 -9.3 -9.5 -9.7	Turbidity	DTW	Ferrous iron	
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.0  10.0  10.0  10.0  10.0	Cond. (uS/cm)  348.7  348.4  348.3  348.3	D.O. (mg/L)  0.65  0.65  0.66  0.67	6.23 6.23 6.23 6.23 6.23	ORP (mV) -9.1 -9.3 -9.5 -9.7	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.0  10.0  10.0  10.0  TYPICAL A	Cond. (uS/cm) 348.7 348.4 348.3 348.3 348.3	D.O. (mg/L) 0.65 0.65 0.66 0.67	6.23 6.23 6.23 6.23 6.23 6.23 6.23	ORP (mV) -9.1 -9.3 -9.5 -9.7 -9.4 TYPE (Circle a)	Turbidity	DTW (ft)	Ferrous iron (Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.0  10.0  10.0  10.0  TYPICAL A (8260) (8010	Cond. (uS/cm)  348.7  348.4  348.3  348.4  NALYSIS AI	D.O. (mg/L)  0.65  0.65  0.66  0.67  0.66  LLOWED PE	6.23 6.23 6.23 6.23 6.23 6.23 RER BOTTLE	ORP (mV) -9.1 -9.3 -9.5 -9.7 -9.4 TYPE (Circle a) (BTEX)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.0  10.0  10.0  10.0  10.0  10.0  10.0  (8260) (8010 (8270D) (PA	Cond. (uS/cm)  348.7  348.4  348.3  348.3  348.4  NALYSIS AI  (MH) (NWTPH	D.O. (mg/L)  0.65  0.65  0.66  0.67  0.66  LLOWED PERMYPH-G) (NWTFH-D) (NWTF	6.23 6.23 6.23 6.23 6.23 6.23 6.23 PR BOTTLE NWTPH-GX PH-DX) (TPF	ORP (mV)  -9.1  -9.3  -9.5  -9.7  -9.4  TYPE (Circle a) (BTEX)  H-HCID) (8081)	Turbidity (NTU)  pplicable or write	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.0  10.0  10.0  10.0  TYPICAL A (8260) (8010 (8270D) (PA	Cond. (uS/cm) 348.7 348.4 348.3 348.3 348.4 NALYSIS AI () (8020) (N AH) (NWTPH intrivity) (TD:	D.O. (mg/L)  0.65  0.65  0.66  0.67  0.66  LLOWED PERWITPH-G) (M-D) (NWTF	6.23 6.23 6.23 6.23 6.23 6.23 6.23 PH-Dx) (TPF-GX) (TPF-GX) (Turbic Code) (Turbic Code)	ORP (mV)  -9.1  -9.3  -9.5  -9.7  -9.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.0  10.0  10.0  10.0  10.0  (8260) (8010  (8270D) (PA (pH) (Condu	Cond. (uS/cm)  348.7  348.4  348.3  348.3  348.4  NALYSIS AI  0) (8020) (N  H) (NWTPI  ctivity) (TD:  C) (Total PO-	D.O. (mg/L)  0.65  0.65  0.66  0.67  0.66  LLOWED PERMITPH-G) (M-LD) (NWTPH-G) (M-LD)	6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE NWTPH-Gx; PH-Dx) (TPF	ORP (mV)  -9.1  -9.3  -9.5  -9.7  -9.4  TYPE (Circle a) (BTEX)  H-HCID) (8081)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.0  10.0  10.0  10.0  10.0  (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOC	Cond. (uS/cm)  348.7  348.4  348.3  348.3  348.4  NALYSIS AI  0) (8020) (N  CH) (NWTPI  clictivity) (TD:  C) (Total PO-  e) (WAD C)	D.O. (mg/L)  0.65  0.65  0.66  0.67  0.66  LLOWED PERMYPH-G) (M-D) (NWTPH-G) (M-D) (NWTPH-G) (M-D) (Total Kiewanide) (Freewanide) (Freewanide) (Freewanide) (Freewanide) (Freewanide) (Freewanide) (Freewanide)	6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE NWTPH-Gx; PH-Dx) (TPH-GX) CH-Dx) (Turbiodahl Nitroger Cyanide)	ORP (mV)  -9.1  -9.3  -9.5  -9.7  -9.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity a) (NH3) (NO3	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (	DTW (ft)  non-standard a  rease) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA  WA  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
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.0  10.0  10.0  10.0  10.0  10.0  (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  348.7  348.4  348.3  348.4  NALYSIS AI  (NWTPI (nctivity) (TD(C) (Total PO- (le) (WAD Cy (le) (As) (Sb) (	D.O. (mg/L)  0.65  0.65  0.66  0.67  0.66  LLOWED PERIVERS (NWTPH-G) (NWTPH-	6.23 6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE NWTPH-GX, PH-DX) (TPH COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -9.1  -9.3  -9.5  -9.7  -9.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	non-standard a 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	Observations  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.0  10.0  10.0  10.0  10.0  10.0  (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  348.7  348.4  348.3  348.4  NALYSIS AI  (NWTPHetivity) (TD: (C) (Total PO- (e) (WAD Cy ()) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L)  0.65  0.65  0.66  0.67  0.66  LLOWED PERIVERS (NWTPH-G) (NWTPH-	6.23 6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE NWTPH-GX, PH-DX) (TPH COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -9.1  -9.3  -9.5  -9.7  -9.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	non-standard a 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	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.0  10.0  10.0  10.0  10.0  TYPICAL A (8260) (8010 (8270D) (PA (PH) (Condu (COD) (TOtal Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  348.7  348.4  348.3  348.4  NALYSIS AI  (NWTPHetivity) (TD: (C) (Total PO- (e) (WAD Cy ()) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L)  0.65  0.65  0.66  0.67  0.66  LLOWED PERMYTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.23 6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE NWTPH-GX, PH-DX) (TPH COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -9.1  -9.3  -9.5  -9.7  -9.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	non-standard a 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	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.0  10.0  10.0  10.0  10.0  TYPICAL A (8260) (8010 (8270D) (PA (PH) (Condu (COD) (TOtal Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  348.7  348.4  348.3  348.3  348.4  NALYSIS AI  (NWTPH (INWTPH (INTTH (INTTH (INTTH (INTTH (INTH (INTH)(INTH (INTH (INTH) (INTH)(INTH (INTH)(INTH (INTH)(INTH (INTH)(INTH (INTH)(INTH (INTH)(INT	D.O. (mg/L)  0.65  0.65  0.66  0.67  0.66  LLOWED PERMYTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.23 6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE NWTPH-GX, PH-DX) (TPH COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -9.1  -9.3  -9.5  -9.7  -9.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	non-standard a 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	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  10.0  10.0  10.0  10.0  10.0  10.0  10.0  (8260) (8010 (8270D) (PA (PH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  348.7  348.4  348.3  348.3  348.4  NALYSIS AI  (NWTPH (INWTPH (INTTH (INTTH (INTTH (INTTH (INTH (INTH)(INTH (INTH (INTH (INTH (INTH (INTH (INTH (INTH)(INTH (INTH (INTH)(INTH)(INTH (INTH (INTH)(INTH (INTH)(INTH (INTH)(INTH)(INTH)(INTH (INTH (INTH)(INTH)(INTH)(INTH)(INTH)(INTH (INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH	D.O. (mg/L)  0.65  0.65  0.66  0.67  0.66  LLOWED PERMYTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.23 6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE NWTPH-GX, PH-DX) (TPH COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -9.1  -9.3  -9.5  -9.7  -9.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	non-standard a 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	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  10.0  10.0  10.0  10.0  10.0  TYPICAL A (8260) (8010 (8270D) (PA (PH) (Condu (COD) (TOtal Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  348.7  348.4  348.3  348.3  348.4  NALYSIS AI  (NWTPH (INWTPH (INTTH (INTTH (INTTH (INTTH (INTH (INTH)(INTH (INTH (INTH (INTH (INTH (INTH (INTH (INTH)(INTH (INTH (INTH)(INTH)(INTH (INTH (INTH)(INTH (INTH)(INTH (INTH)(INTH)(INTH)(INTH (INTH (INTH)(INTH)(INTH)(INTH)(INTH)(INTH (INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH	D.O. (mg/L)  0.65  0.65  0.66  0.67  0.66  LLOWED PERMYTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.23 6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE NWTPH-GX, PH-DX) (TPH COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -9.1  -9.3  -9.5  -9.7  -9.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	non-standard a 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	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  10.0  10.0  10.0  10.0  10.0  10.0  (8260) (8010  (8270D) (PA  (pH) (Condu  (COD) (Total Cyanid  (Total Metals  (Dissolved M  VOC (Boein  Methane Eth	Cond. (uS/cm)  348.7  348.4  348.3  348.3  348.4  NALYSIS AI  (NWTPH (INWTPH (INTTH (INTTH (INTTH (INTTH (INTH (INTH)(INTH (INTH (INTH (INTH (INTH (INTH (INTH (INTH)(INTH (INTH (INTH)(INTH)(INTH (INTH (INTH)(INTH (INTH)(INTH (INTH)(INTH)(INTH)(INTH (INTH (INTH)(INTH)(INTH)(INTH)(INTH)(INTH (INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH	D.O. (mg/L)  0.65  0.65  0.66  0.67  0.66  LLOWED PERMYTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.23 6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE NWTPH-GX, PH-DX) (TPH COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -9.1  -9.3  -9.5  -9.7  -9.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	non-standard a 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	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  10.0  10.0  10.0  10.0  10.0  10.0  (8260) (8010  (8270D) (PA  (pH) (Condu  (COD) (Total Cyanid  (Total Metals  (Dissolved M  VOC (Boein  Methane Eth	Cond. (uS/cm)  348.7  348.4  348.3  348.3  348.4  NALYSIS AI  (NWTPH (INWTPH (INTTH (INTTH (INTTH (INTTH (INTH (INTH)(INTH (INTH (INTH (INTH (INTH (INTH (INTH (INTH)(INTH (INTH (INTH)(INTH)(INTH (INTH (INTH)(INTH (INTH)(INTH (INTH)(INTH)(INTH)(INTH (INTH (INTH)(INTH)(INTH)(INTH)(INTH)(INTH (INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH)(INTH	D.O. (mg/L)  0.65  0.65  0.66  0.67  0.66  LLOWED PERMYTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.23 6.23 6.23 6.23 6.23 6.23 6.23 CR BOTTLE NWTPH-GX, PH-DX) (TPH COD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -9.1  -9.3  -9.5  -9.7  -9.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	non-standard a 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	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:		Feb. 2021			Date/Time:	2/ 16 /2021@	1120		
Sample Num	nber:	RGW188S-	210216		Weather:	OVERCAST, 40	)S		
Landau Repr	resentative:	BXM							
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Conditio	on:	Secure (YES	)	Damaged (N	O)	Describe:	FLUSH		
DTW Before I	Purging (ft)	3.57	Time:	1051	Flow through ce	ll vol.		GW Meter No.(s	SLOPE 8
Begin Purge:	Date/Time:	2/ 16/2021	1053	End Purge:	Date/Time:	2/ 16 /2021 @	1115	Gallons Purged:	<1
Purge water di	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	T	C 1	D.O.		ODD	T1:124	DTW	I	Ct-l
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%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1056	9.4	368.6	0.47	6.23	19.8		3.58		
1059	8.5	319.2	0.44	6.23	4.7		3.58		
1102	8.3	306.6	0.45	6.24	2.1		3.58		
1105	8.2	297.3	0.49	6.25	-0.6				
1108	8.2	290.5	0.54	6.25	-3.5	-			
						-		. ——	
1111	8.3	288.6	0.58	6.27	-5.5				
1114	8.5	285.9	0.63	6.31	-7.5				
SAMPLE CO			T !!						
Sample Collec	cted With:		Bailer	_		DED BLADDER			
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated			
(D. M.	101)	<b>□</b>							
(By Numerical		Other							
			, sheen, etc.):	CLEAR, CO	LORLESS, DAR	K AND LIGHT FI	NES, NO ODOF	R, NO SHEEN	
. •			p.O.	CLEAR, CO	LORLESS, DAR	K AND LIGHT FI	NES, NO ODOF	R, NO SHEEN  Ferrous iron	Comments/
Sample Descri	ription (color,	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	
Replicate  1 2	Temp (°F/°C) 8.5	Cond. (uS/cm) 285.7	D.O. (mg/L) 0.62 0.63	<b>рН</b> 6.28 6.27	ORP (mV) -7.8 -7.9	Turbidity	DTW	Ferrous iron	
Replicate  1 2 3	Temp (°F/°C) 8.5 8.5	Cond. (uS/cm) 285.7 285.6 285.3	D.O. (mg/L) 0.62 0.63	pH 6.28 6.27 6.27	ORP (mV) -7.8 -7.9	Turbidity	DTW	Ferrous iron	
Replicate  1 2 3 4	Temp (°F/°C) 8.5 8.5 8.5	Cond. (uS/cm)  285.7  285.6  285.3	D.O. (mg/L) 0.62 0.63 0.64	6.28 6.27 6.27 6.27	ORP (mV) -7.8 -7.9 -7.9	Turbidity	DTW	Ferrous iron	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8.5 8.5 8.5 8.5	Cond. (uS/cm)  285.7  285.6  285.3  285.2	D.O. (mg/L)  0.62  0.63  0.64  0.63	6.28 6.27 6.27 6.27 6.27	ORP (mV) -7.8 -7.9 -7.9 -7.9 -7.9	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8.5 8.5 8.5 8.5 7YPICAL A	Cond. (uS/cm)  285.7  285.6  285.3  285.2  285.5	D.O. (mg/L) 0.62 0.63 0.64 0.64 0.63	6.28 6.27 6.27 6.27 6.27 6.27	ORP (mV)  -7.8  -7.9  -7.9  -7.9  -7.9  TYPE (Circle a)	Turbidity	DTW (ft)	Ferrous iron (Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8.5 8.5 8.5 8.5 8.5 8.5 (8260) (8010	Cond. (uS/cm)  285.7  285.6  285.3  285.2  285.5  NALYSIS AI	D.O. (mg/L)  0.62  0.63  0.64  0.64  0.63  LOWED PE	6.28 6.27 6.27 6.27 6.27 6.27 RR BOTTLE	ORP (mV)  -7.8  -7.9  -7.9  -7.9  -7.9  TYPE (Circle approximate) (BTEX)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)  nalysis below)	Observations OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8.5 8.5 8.5 8.5 8.5 8.5 8.5 (8260) (8010 (8270D) (PA	Cond. (uS/cm)  285.7  285.6  285.3  285.2  285.5  NALYSIS AI  0) (8020) (NAH) (NWTPH	D.O. (mg/L)  0.62  0.63  0.64  0.64  0.63  LOWED PE	6.28 6.27 6.27 6.27 6.27 6.27 ER BOTTLE NWTPH-GX;	ORP (mV)  -7.8  -7.9  -7.9  -7.9  -7.9  TYPE (Circle a)  (BTEX)  H-HCID) (8081)	Turbidity (NTU)  pplicable or write	DTW (ft)  non-standard a	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8.5 8.5 8.5 8.5 7YPICAL A (8260) (8010 (8270D) (PA	Cond. (uS/cm)  285.7  285.6  285.3  285.2  285.5  NALYSIS AI  (NWTPHetivity) (TD)	D.O. (mg/L)  0.62  0.63  0.64  0.64  0.63  LOWED PE  WTPH-G) (WTPH-G) (NWTP (S) (TSS) (B	6.28 6.27 6.27 6.27 6.27 6.27 8.R BOTTLE NWTPH-Gx, PH-Dx) (TPF	ORP (mV)  -7.8  -7.9  -7.9  -7.9  -7.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (6	DTW (ft)  non-standard a	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Observations OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.5  8.5  8.5  8.5  8.5  (8260) (8010) (PAC) (8270D) (PAC) (COD) (TOO)	Cond. (uS/cm)  285.7  285.6  285.3  285.2  285.5  NALYSIS AI  (b) (8020) (N  AH) (NWTPH  detivity) (TD:  (C) (Total PO-	D.O. (mg/L)  0.62  0.63  0.64  0.63  LOWED PERMITPH-G) (MI-D) (NWTPH-G) (MI-D) (MI-D	6.28 6.27 6.27 6.27 6.27 6.27 CR BOTTLE NWTPH-Gx; PH-Dx) (TPI OD) (Turbidahl Nitroger	ORP (mV)  -7.8  -7.9  -7.9  -7.9  -7.9  TYPE (Circle a)  (BTEX)  H-HCID) (8081)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (6	DTW (ft)  non-standard a	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Observations OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.5  8.5  8.5  8.5  8.5  (8260) (8010) (PA) (COD) (Total Cyanidal Cyanidal Codors)	Cond. (uS/cm)  285.7  285.6  285.3  285.2  285.5  NALYSIS AI (D) (8020) (N AH) (NWTPH (ctivity) (TD: (C) (Total PO-	D.O. (mg/L)  0.62  0.63  0.64  0.63  LLOWED PE IWTPH-G) (M-D) (NWTP S) (TSS) (B 4) (Total Kie	6.28 6.27 6.27 6.27 6.27 6.27 CR BOTTLE NWTPH-Gx; PH-Dx) (TPH OD) (Turbid dahl Nitroger Cyanide)	ORP (mV)  -7.8  -7.9  -7.9  -7.9  -7.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity on the content of the content	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (O/NO2)	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	ralysis below) WA  WA  WA  O WA   WA	Observations  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.5  8.5  8.5  8.5  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  285.7  285.6  285.3  285.2  285.5  NALYSIS AI  O) (8020) (NAH) (NWTPHOLIVITY) (TD: C) (Total PO- le) (WAD Cy o) (As) (Sb) (	D.O. (mg/L)  0.62  0.63  0.64  0.63  LLOWED PE (WTPH-G) (NWTP (NWTPH-G) (NWT	6.28 6.27 6.27 6.27 6.27 6.27 CR BOTTLE NWTPH-GX H-DX) (TPH OD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -7.8  -7.9  -7.9  -7.9  -7.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity) (Alkalinity) (NH3) (NO3.	Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  OOO WA  O	Observations  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.5  8.5  8.5  8.5  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  285.7  285.6  285.3  285.2  285.5  NALYSIS AI  (b) (8020) (N  CH) (NWTPH  (civity) (TD)  (c) (Total PO-  (de) (WAD Cy  (de) (As) (Sb) ( (etals) (As) (Sb) (	D.O. (mg/L)  0.62  0.63  0.64  0.63  LLOWED PE (WTPH-G) (NWTP (NWTPH-G) (NWT	6.28 6.27 6.27 6.27 6.27 6.27 CR BOTTLE NWTPH-GX H-DX) (TPH OD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -7.8  -7.9  -7.9  -7.9  -7.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity) (Alkalinity) (NH3) (NO3.	Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  OOO WA  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.5  8.5  8.5  8.5  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  285.7  285.6  285.3  285.2  285.5  NALYSIS AI  (b) (8020) (N  CH) (NWTPH  (civity) (TD)  (c) (Total PO-  (de) (WAD Cy  (de) (As) (Sb) ( (etals) (As) (Sb) (	D.O. (mg/L)  0.62  0.63  0.64  0.63  LLOWED PE  WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca	6.28 6.27 6.27 6.27 6.27 6.27 CR BOTTLE NWTPH-GX H-DX) (TPH OD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -7.8  -7.9  -7.9  -7.9  -7.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity) (Alkalinity) (NH3) (NO3.	Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  OOO WA  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.5  8.5  8.5  8.5  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  285.7  285.6  285.3  285.2  285.5  NALYSIS AI  (i) (8020) (N  AH) (NWTPH  (ictivity) (TD:  (iii) (Total PO-  (iiii) (WAD Cy  (iiii) (As) (Sb) (etals) (As) (Sb)  (g short list)	D.O. (mg/L)  0.62  0.63  0.64  0.63  LLOWED PE  WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca	6.28 6.27 6.27 6.27 6.27 6.27 CR BOTTLE NWTPH-GX H-DX) (TPH OD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -7.8  -7.9  -7.9  -7.9  -7.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity) (Alkalinity) (NH3) (NO3.	Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  OOO WA  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.5  8.5  8.5  8.5  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  285.7  285.6  285.3  285.2  285.5  NALYSIS AI  (i) (8020) (N  AH) (NWTPH  (ictivity) (TD:  (iii) (Total PO-  (iiii) (WAD Cy  (iiii) (As) (Sb) (etals) (As) (Sb)  (g short list)	D.O. (mg/L)  0.62  0.63  0.64  0.63  LLOWED PE  WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca	6.28 6.27 6.27 6.27 6.27 6.27 CR BOTTLE NWTPH-GX H-DX) (TPH OD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -7.8  -7.9  -7.9  -7.9  -7.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity) (Alkalinity) (NH3) (NO3.	Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  OOO WA  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.5  8.5  8.5  8.5  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  285.7  285.6  285.3  285.2  285.5  NALYSIS AI  (i) (8020) (N  AH) (NWTPH  (ictivity) (TD:  (iii) (Total PO-  (iiii) (WAD Cy  (iiii) (As) (Sb) (etals) (As) (Sb)  (g short list)	D.O. (mg/L)  0.62  0.63  0.64  0.63  LLOWED PE  WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca	6.28 6.27 6.27 6.27 6.27 6.27 CR BOTTLE NWTPH-GX H-DX) (TPH OD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -7.8  -7.9  -7.9  -7.9  -7.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity) (Alkalinity) (NH3) (NO3.	Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  OOO WA  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.5  8.5  8.5  8.5  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  285.7  285.6  285.3  285.2  285.5  NALYSIS AI  (i) (8020) (N  AH) (NWTPH  (ictivity) (TD:  (iii) (Total PO-  (iiii) (WAD Cy  (iiii) (As) (Sb) (etals) (As) (Sb)  (g short list)	D.O. (mg/L)  0.62  0.63  0.64  0.63  LLOWED PE  WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca	6.28 6.27 6.27 6.27 6.27 6.27 CR BOTTLE NWTPH-GX H-DX) (TPH OD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -7.8  -7.9  -7.9  -7.9  -7.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity) (Alkalinity) (NH3) (NO3.	Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  OOO WA  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.5  8.5  8.5  8.5  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  285.7  285.6  285.3  285.2  285.5  NALYSIS AI  (i) (8020) (N  AH) (NWTPH  (ictivity) (TD:  (iii) (Total PO-  (iiii) (WAD Cy  (iiii) (As) (Sb) (etals) (As) (Sb)  (g short list)	D.O. (mg/L)  0.62  0.63  0.64  0.63  LLOWED PE  WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca	6.28 6.27 6.27 6.27 6.27 6.27 CR BOTTLE NWTPH-GX H-DX) (TPH OD) (Turbidahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -7.8  -7.9  -7.9  -7.9  -7.9  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity) (Alkalinity) (NH3) (NO3.	Turbidity (NTU)  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NC	Ferrous iron (Fe II)  nalysis below) WA  WA  OOO WA  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2021		_	Date/Time:	2/17 /2021@	1350		
Sample Num	nber:	RGW189S-	210217		Weather:				
Landau Repi	resentative:	AHA			•				
WATERIEV	/EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES	)	Damaged (N	(0)	Describe:	FLUSHMOUN	IT	
DTW Before		5.03	Time:	•	Flow through ce		12001111001	GW Meter No.(s	s 10
	Date/Time:			End Purge:	_	2/ 17/2021 @,	1345	Gallons Purged:	0.25
Purge water d		2/17/2021@	55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	
i uige water d	isposed to.		55-gai Diulii	-	Storage Talik	E Ground	Other	SITE TREATME	ENT STSTEM
Time	Temp (°F/°C)	Cond.	D.O.	pН	ORP (mV)	Turbidity	DTW	Internal Purge	Comments/
Time	, ,	(uS/cm) s: Stablizatio	(mg/L) n of Paramet	ers for three	. ,	(NTU) lings within the fo	(ft) llowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1326	10.9	398.1	0.34	5.12	42.1		5.07		
1329	10.8	376.7	0.37	5.43	22.5		5.07		
							-		
1332	10.8	351.7	0.39	5.61	18.1		5.07		
1335	10.8	337.7	0.45	5.79	7.1				
1338	10.8	324.7	0.49	5.95	0.3				
1341	10.8	313.7	0.55	6.04	-5.3				
1343	10.8	311.3	0.56	6.09	-6.4				
SAMPLE CO	LLECTION D	DATA							
Sample Colle			Bailer		Pump/Pump Type	DED. BLADDER			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Wa		Tap Rinse	DI Water	Dedicated	—		
(By Numerica		Other	··· —	rup remse	□ Di Water	Bearcatea			
		-	sheen etc.):	NO COLOR	LOW TURB. N	O ODOR NO SHE	EN LITTLE BIT	OF PLASTIC IN	I SAMPLES
		-	, sheen, etc.):	NO COLOR	, LOW TURB, N	O ODOR NO SHE	EN LITTLE BIT	OF PLASTIC IN	N SAMPLES
` •		-	D.O. (mg/L)	NO COLOR	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	Ferrous iron	Comments/
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr Replicate	Temp (°F/°C) 10.8	Cond. (uS/cm) 308.4	D.O. (mg/L) 0.58	<b>pH</b> 6.11 6.12	ORP (mV) -7.8 -8.2	Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3	Temp (°F/°C) 10.8 10.9	Cond. (uS/cm) 308.4 308.7 306.9	D.O. (mg/L) 0.58 0.58	6.11 6.12 6.13	ORP (mV) -7.8 -8.2 -9.5	Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3 4	Temp (°F/°C) 10.8 10.9 10.9	Cond. (uS/cm) 308.4 308.7 306.9	D.O. (mg/L) 0.58 0.58 0.58	<b>pH</b> 6.11 6.12 6.13 6.14	ORP (mV) -7.8 -8.2 -9.5 -9.8	Turbidity (NTU)	DTW	Ferrous iron	Comments/
Replicate  1 2 3	Temp (°F/°C) 10.8 10.9	Cond. (uS/cm) 308.4 308.7 306.9	D.O. (mg/L) 0.58 0.58	6.11 6.12 6.13	ORP (mV) -7.8 -8.2 -9.5	Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3 4 Average:	Temp (°F/°C) 10.8 10.9 10.9 10.9	Cond. (uS/cm) 308.4 308.7 306.9 307.2	D.O. (mg/L)  0.58  0.58  0.58  0.59	6.11 6.12 6.13 6.14 6.13	ORP (mV)  -7.8  -8.2  -9.5  -9.8  -8.8	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate  1 2 3 4 Average:	Temp (°F/°C) 10.8 10.9 10.9 10.9	Cond. (uS/cm) 308.4 308.7 306.9 307.2 307.8	D.O. (mg/L)  0.58  0.58  0.58  0.59  0.58	6.11 6.12 6.13 6.14 6.13 CR BOTTLE	ORP (mV)  -7.8  -8.2  -9.5  -9.8  -8.8  TYPE (Circle a)	Turbidity (NTU)  #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate  1 2 3 4 Average:	Temp (°F/°C) 10.8 10.9 10.9 10.9 10.9 TYPICAL A (8260) (8010	Cond. (uS/cm) 308.4 308.7 306.9 307.2 307.8  NALYSIS AI 0) (8020) (N	D.O. (mg/L)  0.58  0.58  0.58  0.59  0.58  LLOWED PERMITPH-G) (MITPH-G) (MITPH-G)	6.11 6.12 6.13 6.14 6.13 CR BOTTLE NWTPH-GX	ORP (mV)  -7.8  -8.2  -9.5  -9.8  -8.8  TYPE (Circle approximate) (BTEX)	Turbidity (NTU)  #DIV/0!	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.8  10.9  10.9  10.9  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 308.4 308.7 306.9 307.2 307.8  NALYSIS AI D) (8020) (N AH) (NWTPH letivity) (TD)	D.O. (mg/L)  0.58  0.58  0.59  0.58  ULOWED PERMYPH-G) (MYTPH-G) (	6.11 6.12 6.13 6.14 6.13 CR BOTTLE NWTPH-GX PH-Dx) (TPF	ORP (mV)  -7.8  -8.2  -9.5  -9.8  -8.8  TYPE (Circle a) (BTEX)  I-HCID) (8081) dity) (Alkalinity	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Comments/ Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.8  10.9  10.9  10.9  10.9  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 308.4 308.7 306.9 307.2 307.8 NALYSIS AI 0) (8020) (N MH) (NWTPI netrivity) (TD: C) (Total PO-	D.O. (mg/L)  0.58  0.58  0.59  0.58  LLOWED PERMYTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Total Kie	6.11 6.12 6.13 6.14 6.13 CR BOTTLE NWTPH-Gx PH-Dx) (TPF	ORP (mV)  -7.8  -8.2  -9.5  -9.8  -8.8  TYPE (Circle a) (BTEX)  I-HCID) (8081)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Comments/ Observations
Replicate  1 2 3 4 Average:  QUANTITY 14 6	Temp (°F/°C)  10.8  10.9  10.9  10.9  10.9  10.9  (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid	Cond. (uS/cm) 308.4 308.7 306.9 307.2 307.8  NALYSIS AI () (8020) (N (H) (NWTPI () (Total PO- () (WAD Cy () (WAD Cy () (NAT) () (WAD Cy () (WAD Cy () (NAT) () (WAD Cy () (WAD C	D.O. (mg/L)  0.58  0.58  0.59  0.58  LLOWED PF WTPH-G) (NWTP S) (TSS) (E 4) (Total Kie	6.11 6.12 6.13 6.14 6.13 CR BOTTLE NWTPH-GX PH-Dx) (TPF DD) (Turbidahl Nitroger Cyanide)	ORP (mV)  -7.8  -8.2  -9.5  -9.8  -8.8  TYPE (Circle aportion (Circle apor	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA  WA  ON WA  ON WA  ON WA  ON WA  ON WA  ON WA	Comments/ Observations  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 14 6	Temp (°F/°C)  10.8  10.9  10.9  10.9  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  308.4  308.7  306.9  307.2  307.8  NALYSIS AI  O) (8020) (N  CH) (NWTPF  Intervity) (TDtal PO-  le) (WAD Cy  o) (As) (Sb) (	D.O. (mg/L)  0.58  0.58  0.59  0.58  ULOWED PERMYPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Ca	pH  6.11  6.12  6.13  6.14  6.13  CR BOTTLE  NWTPH-Gx PH-Dx) (TPF OD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -7.8  -8.2  -9.5  -9.8  -8.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity  (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO2)	non-standard a rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   ON	Comments/ Observations  OR □ OR □ g) (K) (Na)
Replicate  1 2 3 4 Average:  QUANTITY 14 6	Temp (°F/°C)  10.8  10.9  10.9  10.9  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 308.4 308.7 306.9 307.2 307.8  NALYSIS AI () (8020) (N () (NWTPH () (Total PO- () () (AS) (Sb) ((ctals) (As) (Sb)	D.O. (mg/L)  0.58  0.58  0.59  0.58  ULOWED PERMYPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Ca	pH  6.11  6.12  6.13  6.14  6.13  CR BOTTLE  NWTPH-GX  PH-Dx) (TPF  OD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -7.8  -8.2  -9.5  -9.8  -8.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity  (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO2)	non-standard a rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   ON	Comments/ Observations  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 14 6	Temp (°F/°C)  10.8  10.9  10.9  10.9  10.9  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 308.4 308.7 306.9 307.2 307.8 NALYSIS AI () (8020) (N () (NWTPI () (Total PO- () (Total PO- () (As) (Sb) ((etals) (As) (St) () g short list)	D.O. (mg/L)  0.58  0.58  0.59  0.58  ULOWED PERMYTPH-G) (M-LD) (NWTPH-G) (M-LD) (M	pH  6.11  6.12  6.13  6.14  6.13  CR BOTTLE  NWTPH-GX  PH-Dx) (TPF  OD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -7.8  -8.2  -9.5  -9.8  -8.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity  (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO2)	non-standard a rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   ON	Comments/ Observations  OR □ OR □ g) (K) (Na)
Replicate  1 2 3 4 Average:  QUANTITY 14 6	Temp (°F/°C)  10.8  10.9  10.9  10.9  10.9  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 308.4 308.7 306.9 307.2 307.8  NALYSIS AI () (8020) (N () (NWTPH () (Total PO- () () (AS) (Sb) ((ctals) (As) (Sb)	D.O. (mg/L)  0.58  0.58  0.59  0.58  ULOWED PERMYTPH-G) (M-LD) (NWTPH-G) (M-LD) (M	pH  6.11  6.12  6.13  6.14  6.13  CR BOTTLE  NWTPH-GX  PH-Dx) (TPF  OD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -7.8  -8.2  -9.5  -9.8  -8.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity  (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO2)	non-standard a rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   ON	Comments/ Observations  OR □ OR □ g) (K) (Na)
Replicate  1 2 3 4 Average:  QUANTITY 14 6	Temp (°F/°C)  10.8  10.9  10.9  10.9  10.9  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 308.4 308.7 306.9 307.2 307.8 NALYSIS AI () (8020) (N () (NWTPI () (Total PO- () (Total PO- () (As) (Sb) ((etals) (As) (St) () g short list)	D.O. (mg/L)  0.58  0.58  0.59  0.58  ULOWED PERMYTPH-G) (M-LD) (NWTPH-G) (M-LD) (M	pH  6.11  6.12  6.13  6.14  6.13  CR BOTTLE  NWTPH-GX  PH-Dx) (TPF  OD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -7.8  -8.2  -9.5  -9.8  -8.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity (a) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO2)	non-standard a rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   ON	Comments/ Observations  OR □ OR □ g) (K) (Na)
Replicate  1 2 3 4 Average:  QUANTITY 14 6	Temp (°F/°C)  10.8  10.9  10.9  10.9  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 308.4 308.7 306.9 307.2 307.8 NALYSIS AI () (8020) (N () (NWTPI () (Total PO- () (Total PO- () (As) (Sb) ((etals) (As) (St) () g short list)	D.O. (mg/L)  0.58  0.58  0.59  0.58  ULOWED PERMYTPH-G) (M-LD) (NWTPH-G) (M-LD) (M	pH  6.11  6.12  6.13  6.14  6.13  CR BOTTLE  NWTPH-GX  PH-Dx) (TPF  OD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -7.8  -8.2  -9.5  -9.8  -8.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity (a) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO2)	non-standard a rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   ON	Comments/ Observations  OR □ OR □ g) (K) (Na)
Replicate  1 2 3 4 Average:  QUANTITY 14 6	Temp (°F/°C)  10.8  10.9  10.9  10.9  10.9  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 308.4 308.7 306.9 307.2 307.8 NALYSIS AI () (8020) (N () (NWTPI () (Total PO- () (Total PO- () (As) (Sb) ((etals) (As) (St) () g short list)	D.O. (mg/L)  0.58  0.58  0.59  0.58  ULOWED PERMYTPH-G) (MI-D) (NWTPH-G) (MI-D) (MI-	pH  6.11  6.12  6.13  6.14  6.13  CR BOTTLE  NWTPH-GX  PH-Dx) (TPF  OD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -7.8  -8.2  -9.5  -9.8  -8.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity (a) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO2)	non-standard a rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   ON	Comments/ Observations  OR □ OR □ g) (K) (Na)
Replicate  1 2 3 4 Average:  QUANTITY 14 6	Temp (°F/°C)  10.8  10.9  10.9  10.9  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 308.4 308.7 306.9 307.2 307.8 NALYSIS AI () (8020) (N () (NWTPI () (Total PO- () (Total PO- () (As) (Sb) ((etals) (As) (St) () g short list)	D.O. (mg/L)  0.58  0.58  0.59  0.58  LLOWED PF (WTPH-G) (MTPH-G) (NWTF (MTPH-G) (MTP	pH  6.11  6.12  6.13  6.14  6.13  CR BOTTLE  NWTPH-GX  PH-Dx) (TPF  OD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -7.8  -8.2  -9.5  -9.8  -8.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity (a) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO2)	non-standard a rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   ON	Comments/ Observations  OR □ OR □ g) (K) (Na)
Replicate  1 2 3 4 Average:  QUANTITY 14 6	Temp (°F/°C)  10.8  10.9  10.9  10.9  10.9  TYPICAL A (8260) (8016 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 308.4 308.7 306.9 307.2 307.8  NALYSIS AI () (8020) (N AH) (NWTPH (ctivity) (TD: (C) (Total PO- (le) (WAD Cy () (As) (Sb) ((etals) (As) (Sb) (g short list) ane Ethene A	D.O. (mg/L)  0.58  0.58  0.59  0.58  0.59  0.58  LLOWED PERMYPH-G) (MI-D) (NWTPH-G) (MI-D) (MI-D) (NWTPH-G) (MI-D) (MI-D	pH  6.11  6.12  6.13  6.14  6.13  CR BOTTLE  NWTPH-Gx  PH-Dx) (TPF  COD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)  Ca) (Cd) (Co)	ORP (mV)  -7.8  -8.2  -9.5  -9.8  -8.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity (a) (NH3) (NO3) (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (e NO2)  (Pb) (Mg) (Mn) (Ni)  (b) (Mg) (Mn) (Ni)	non-standard a rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   ON	Comments/ Observations  OR □ OR □ g) (K) (Na)



Project Name	e:	Boeing Ren	iton		Project Number	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2021		_	Date/Time:	2/17 /2021@	1227		
Sample Num	nber:	RGW207S-	210217		Weather:	PARTLY CLOU	JDY		
Landau Repr	resentative:	AHA			•				
WATER LEV	FI/WFII/PI	IRGE DATA							
Well Conditio		Secure (YES	3	Damaged (N	(0)	Describe:	FLUSHMOUN	JT	
DTW Before		5.54	Time:	- '	Flow through ce			GW Meter No.(s	s 10
Begin Purge:	0 0 0			End Purge:	-	2/ 17/2021 @.	1221	Gallons Purged:	0.25
Purge water d		2/17/2021@	55-gal Drum		Storage Tank	Ground		SITE TREATM	
i dige water d	isposed to.				Storage Tank	□ Ground	Other	SITE TREATME	ENT STSTEM
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge	Comments/ Observations
Time	, ,	. ,	` 0 /	ters for three	, ,	dings within the fo	. ,	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1204	11.9	246.5	0.31	6.52	-84.4		5.54		
1207	10.8	236.2	0.42	6.53	-84.9		5.53	·	
1210	9.8	222.6	0.51	6.54	-83.1		5.53		
1213	9.5	217.8	0.49	6.49	-78.8			·	
1216	9.5	216.1	0.48	6.49	-78.1			·	
1219	9.6	216.2	0.48	6.51	-77.7				
1221									
SAMPLE CO	LLECTION D	DATA							
Sample Collec	cted With:		Bailer		Pump/Pump Type	DED. BLADDER	-		
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Wa	sh	Tap Rinse	DI Water	Dedicated			
(By Numerica	1.0	□ 0.1	_		<del>-</del>	_			
(B) I time tea	i Oraer)	Other							
			r, sheen, etc.):	NO COLOR	, LOW TURB, N	O ODOR, NO SHE	EN		
			r, sheen, etc.):		, LOW TURB, N	O ODOR, NO SHE	EN		
	iption (color, t	turbidity, odor	D.O.	NO COLOR	ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	· 		Ferrous iron (Fe II)	Comments/ Observations
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	<b>рН</b> 6.51	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	<b>рН</b> 6.51	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate  1 2	Temp (°F/°C) 9.7	Cond. (uS/cm) 216.6	D.O. (mg/L) 0.47	<b>pH</b> 6.51 6.51	ORP (mV) -77.7 -77.9	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 9.7 9.9 9.8	Cond. (uS/cm)  216.6  216.8	D.O. (mg/L) 0.47 0.47	6.51 6.51 6.52	ORP (mV) -77.7 -77.9 -78.2	Turbidity	DTW		
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.7 9.9 9.8 9.8	Cond. (uS/cm) 216.6 216.8 217.6 216.9	D.O. (mg/L)  0.47  0.47  0.47  0.47  0.47	6.51 6.51 6.52 6.51 6.51	ORP (mV) -77.7 -77.9 -78.2 -78.1	Turbidity (NTU)  #DIV/0!	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.7 9.9 9.8 9.8 7YPICAL A	Cond. (uS/cm) 216.6 216.8 217.6 216.9	D.O. (mg/L)  0.47  0.47  0.47  0.47  0.47  0.47	pH  6.51  6.51  6.52  6.51  6.51  6.51	ORP (mV) -77.7 -77.9 -78.2 -78.1 -78.0	Turbidity (NTU)	DTW (ft)	nalysis below)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.7 9.9 9.8 9.8 9.8 TYPICAL A (8260) (8010	Cond. (uS/cm)  216.6  216.8  217.6  216.9  NALYSIS AI  0) (8020) (N	D.O. (mg/L)  0.47  0.47  0.47  0.47  0.47  LLOWED PE	6.51 6.52 6.51 6.51 6.51 ER BOTTLE	ORP (mV)  -77.7  -77.9  -78.2  -78.1  -78.0  TYPE (Circle a) (BTEX)	Turbidity (NTU)  #DIV/0!  pplicable or write	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.7 9.9 9.8 9.8 9.8 7YPICAL A (8260) (8010 (8270D) (PA	Cond. (uS/cm)  216.6  216.8  217.6  216.9  NALYSIS AI  (WYPP)  (WYPP)	D.O. (mg/L)  0.47  0.47  0.47  0.47  0.47  LLOWED PF  SWTPH-G) (NWTF	6.51 6.51 6.51 6.51 6.51 6.7 6.51 6.51 6.51 ER BOTTLE (NWTPH-GX) PH-Dx) (TPH	ORP (mV)  -77.7  -77.9  -78.1  -78.0  TYPE (Circle a) (BTEX) H-HCID) (8081)	Turbidity (NTU)  #DIV/0!	DTW (ft)	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.7 9.9 9.8 9.8 9.8 7YPICAL A (8260) (8010 (8270D) (PA	Cond. (uS/cm)  216.6  216.8  217.6  216.9  NALYSIS AI  O) (8020) (NAH) (NWTPI Inctivity) (TD	D.O. (mg/L)  0.47  0.47  0.47  0.47  0.47  0.47  0.47  O.H-D) (NWTH-S) (TSS) (B	6.51 6.51 6.51 6.51 6.51 6.51 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Dx) (TPH-Dx) (TPH-Dx) (TPH-Dx)	ORP (mV)  -77.7  -77.9  -78.1  -78.0  TYPE (Circle a) (BTEX) H-HCID) (8081)	#DIV/0! pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6	DTW (ft)	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.7 9.9 9.8 9.8 9.8 7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm)  216.6  216.8  217.6  216.9  NALYSIS AI  O) (8020) (NAH) (NWTPI Inctivity) (TD	D.O. (mg/L)  0.47  0.47  0.47  0.47  0.47  0.47  0.47  O.47  S.Y. (March 1997)  O. (March 1	6.51 6.51 6.51 6.51 6.51 6.51 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Dx) (TPH-Dx) (Turbic-dahl Nitroger	ORP (mV)  -77.7  -77.9  -78.1  -78.0  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity	#DIV/0! pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6	DTW (ft)	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.7  9.9  9.8  9.8  9.8  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm)  216.6  216.8  217.6  216.9  NALYSIS AI (D) (8020) (N AH) (NWTPI (Inctivity) (TD (C) (Total PO-	D.O. (mg/L)  0.47  0.47  0.47  0.47  0.47  1.47  0.47  1.40	pH  6.51  6.51  6.52  6.51  6.51  ER BOTTLE [NWTPH-Gx] PH-Dx) (TPH BOD) (Turbic dahl Nitroger Cyanide)	ORP (mV)  -77.7  -77.9  -78.1  -78.0  TYPE (Circle a)  ( BTEX)  H-HCID) (8081)  dity) (Alkalinity  a) (NH3) (NO3	#DIV/0! pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6	DTW (ft)  non-standard a  rease) 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
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.7  9.9  9.8  9.8  7YPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (TOG) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm)  216.6  216.8  217.6  216.9  NALYSIS AI  (WWTPI	D.O. (mg/L)  0.47  0.47  0.47  0.47  0.47  LLOWED PF  WYPH-G) (WWTF S) (TSS) (B4) (Total Kie //anide) (Free Ba) (Be) (Ca	6.51 6.51 6.51 6.51 6.51 ER BOTTLE (NWTPH-GX) PH-Dx) (TPF BOD) (Turbic edahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -77.7  -77.9  -78.2  -78.1  -78.0  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity  (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.7  9.9  9.8  9.8  9.8  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOd (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 216.6 216.8 217.6 216.9 NALYSIS AI (0) (8020) (N (NWTPI (nctivity) (TD (C) (Total PO (le) (WAD C) () (As) (Sb) ((etals) (As) (Sl () g short list)	D.O. (mg/L)  0.47  0.47  0.47  0.47  0.47  0.47  CLLOWED PENTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Precedure of the precedure	6.51 6.51 6.51 6.51 6.51 ER BOTTLE (NWTPH-GX) PH-Dx) (TPF BOD) (Turbic edahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -77.7  -77.9  -78.2  -78.1  -78.0  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity  (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  Graph  Graph
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.7  9.9  9.8  9.8  9.8  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOd (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  216.6  216.8  217.6  216.9  NALYSIS AI  (WWTPI	D.O. (mg/L)  0.47  0.47  0.47  0.47  0.47  0.47  CLLOWED PENTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Precedure of the precedure	6.51 6.51 6.51 6.51 6.51 ER BOTTLE (NWTPH-GX) PH-Dx) (TPF BOD) (Turbic edahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -77.7  -77.9  -78.2  -78.1  -78.0  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity  (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  Graph  Graph
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.7  9.9  9.8  9.8  9.8  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOd (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 216.6 216.8 217.6 216.9 NALYSIS AI (0) (8020) (N (NWTPI (nctivity) (TD (C) (Total PO (le) (WAD C) () (As) (Sb) ((etals) (As) (Sl () g short list)	D.O. (mg/L)  0.47  0.47  0.47  0.47  0.47  0.47  CLLOWED PENTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Precedure of the precedure	6.51 6.51 6.51 6.51 6.51 ER BOTTLE (NWTPH-GX) PH-Dx) (TPF BOD) (Turbic edahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -77.7  -77.9  -78.2  -78.1  -78.0  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity  (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  Graph  Graph
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.7  9.9  9.8  9.8  7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 216.6 216.8 217.6 216.9 NALYSIS AI (0) (8020) (N (NWTPI (nctivity) (TD (C) (Total PO (le) (WAD C) () (As) (Sb) ((etals) (As) (Sl () g short list)	D.O. (mg/L)  0.47  0.47  0.47  0.47  0.47  0.47  CLLOWED PENTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Precedure of the precedure	6.51 6.51 6.51 6.51 6.51 ER BOTTLE (NWTPH-GX) PH-Dx) (TPF BOD) (Turbic edahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -77.7  -77.9  -78.2  -78.1  -78.0  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity  (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  Graph  Graph
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.7  9.9  9.8  9.8  9.8  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOd (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 216.6 216.8 217.6 216.9 NALYSIS AI (0) (8020) (N (NWTPI (nctivity) (TD (C) (Total PO (le) (WAD C) () (As) (Sb) ((etals) (As) (Sl () g short list)	D.O. (mg/L)  0.47  0.47  0.47  0.47  0.47  0.47  CLLOWED PENTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Precedure of the precedure	6.51 6.51 6.51 6.51 6.51 ER BOTTLE (NWTPH-GX) PH-Dx) (TPF BOD) (Turbic edahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -77.7  -77.9  -78.2  -78.1  -78.0  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity  (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  Graph  Graph
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.7  9.9  9.8  9.8  7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 216.6 216.8 217.6 216.9 NALYSIS AI (0) (8020) (N (NWTPI (nctivity) (TD (C) (Total PO (le) (WAD C) () (As) (Sb) ((etals) (As) (Sl () g short list)	D.O. (mg/L)  0.47  0.47  0.47  0.47  0.47  0.47  CLLOWED PENTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Precedure of the precedure	6.51 6.51 6.51 6.51 6.51 ER BOTTLE (NWTPH-GX) PH-Dx) (TPF BOD) (Turbic edahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -77.7  -77.9  -78.2  -78.1  -78.0  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity  (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  Graph  Graph
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.7  9.9  9.8  9.8  7YPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 216.6 216.8 217.6 216.9 NALYSIS AI (0) (8020) (N (NWTPI (nctivity) (TD (C) (Total PO (le) (WAD C) () (As) (Sb) ((etals) (As) (Sl () g short list)	D.O. (mg/L)  0.47  0.47  0.47  0.47  0.47  0.47  CLLOWED PENTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Precedure of the precedure	6.51 6.51 6.51 6.51 6.51 ER BOTTLE (NWTPH-GX) PH-Dx) (TPF BOD) (Turbic edahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -77.7  -77.9  -78.2  -78.1  -78.0  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity  (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  Graph  Graph



-	e:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2021			Date/Time:	2/ 17 /2021@	1210		
Sample Num	ber:	RGW208S-	210217		Weather:	OVERCAST, 40	)S		
Landau Repr	esentative:	BXM							
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Condition	n:	Secure (YES	)	Damaged (N	O)	Describe:	FLUSH		
DTW Before I	Purging (ft)	6.9	Time:	1143	Flow through ce	ll vol.		GW Meter No.(s	SLOOE 8
Begin Purge:	Date/Time:	2/ 17 /2021	1144	End Purge:	Date/Time:	2/ 17 /2021 @	1206	Gallons Purged:	<1
Purge water di	sposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Т	Cand	D.O.	17	ODD	Tb: 3:4	DTW	Internal Druge	Commontal
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%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1147	11.7	435.5	0.17	6.30	27.2		6.94		
1150	11.1	437.2	0.21	6.29	16.2		6.96		
1153	10.5	433.3	0.27	6.27	4.7		6.96		
1156	10.4	432.8	0.26	6.26	3.5				
1159	10.4	431.6	0.30	6.26	-0.4				
	-								
1202	10.3	431.2	0.38	6.21	-4.6				
1205	10.2	430.2	0.44	6.24	-6.6				
							-		
SAMPLE COI			D "		D /D T	DED DI ADDED			
Sample Collec	ted With:	_	Bailer			DED BLADDER		<b>— D F C C</b>	
Made of:		Stainless Ste	el	PVC	Teflon	Polyethylene	Other	Dedicated	
			. =						
Decon Procedo		Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerical	l Order)	Other					L COME DARW	EDIEC	
(By Numerical	l Order)	Other				Dedicated  DOOR, NO SHEEN	I, SOME DARK	FINES	
(By Numerical	l Order)	Other					J, SOME DARK  DTW  (ft)	FINES Ferrous iron (Fe II)	Comments/ Observations
(By Numerical Sample Descri	iption (color, to Temp	Other curbidity, odor  Cond. (uS/cm)	D.O. (mg/L)	CLEAR, CO	LORLESS, NO COORP (mV)	DOOR, NO SHEEN	DTW	Ferrous iron	
(By Numerical Sample Descri	Temp (°F/°C)	Cond. (uS/cm) 429.8	D.O. (mg/L)	CLEAR, CO pH 6.25	ORP (mV)	DOOR, NO SHEEN	DTW	Ferrous iron	
(By Numerical Sample Description Replicate  1 2	Order)	Other Cond. (uS/cm) 429.8	D.O. (mg/L) 0.45	CLEAR, CO  pH  6.25  6.25	ORP (mV) -7.1	DOOR, NO SHEEN	DTW	Ferrous iron	
Replicate  1 2 3	Order)   Order     Temp (°F/°C)	Cond. (uS/cm) 429.8 429.6	D.O. (mg/L)  0.45  0.47	CLEAR, CO  pH  6.25  6.25  6.24	ORP (mV)  -7.1  -7.4  -7.7	DOOR, NO SHEEN	DTW	Ferrous iron	
Replicate  1 2 3 4	Order	Other Cond. (uS/cm) 429.8 429.5 429.5	D.O. (mg/L)  0.45  0.47	CLEAR, CO  pH  6.25  6.25  6.24  6.25	ORP (mV) -7.1 -7.4 -7.7 -8.0	DOOR, NO SHEEN	DTW	Ferrous iron	
Replicate  1 2 3	Order)   Order     Temp (°F/°C)	Cond. (uS/cm) 429.8 429.6	D.O. (mg/L)  0.45  0.47	CLEAR, CO  pH  6.25  6.25  6.24	ORP (mV)  -7.1  -7.4  -7.7	DOOR, NO SHEEN	DTW	Ferrous iron	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 10.2 10.2 10.2 10.2	Other Cond. (uS/cm) 429.8 429.6 429.5 429.6	D.O. (mg/L) 0.45 0.45 0.47 0.47	CLEAR, CO  pH  6.25  6.25  6.24  6.25  6.25	ORP (mV)  -7.1  -7.4  -7.7  -8.0  -7.6	DOOR, NO SHEEN	DTW (ft)	Ferrous iron (Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.2  10.2  10.2  10.2  10.2  TYPICAL A (8260) (8010	Other Cond. (uS/cm) 429.8 429.5 429.5 429.6 NALYSIS AI	D.O. (mg/L)  0.45  0.47  0.46  LOWED PE	CLEAR, CO  pH  6.25  6.25  6.24  6.25  6.25  CR BOTTLE  NWTPH-GX	ORP (mV)  -7.1  -7.4  -7.7  -8.0  -7.6  TYPE (Circle a) (BTEX)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.2  10.2  10.2  10.2  10.2  10.2  (8260) (8010) (8270D) (PA	Cond. (uS/cm) 429.8 429.6 429.5 429.6  NALYSIS AI () (8020) (N-CH) (NWTPF	D.O. (mg/L)  0.45  0.47  0.46  LOWED PE	CLEAR, CO  PH  6.25 6.25 6.24 6.25 6.25 CR BOTTLE NWTPH-GX) PH-Dx) (TPH	ORP (mV)  -7.1  -7.4  -7.7  -8.0  -7.6  TYPE (Circle a) (BTEX)  H-HCID) (8081)	Turbidity (NTU)  oplicable or write	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.2  10.2  10.2  10.2  10.2  10.2  (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 429.8 429.6 429.5 429.6  NALYSIS AI () (8020) (N LH) (NWTPH ctivity) (TD:	D.O. (mg/L)  0.45  0.45  0.47  0.46  LOWED PE  WTPH-G) (WTPH-G) (NWTP S) (TSS) (B	CLEAR, CO  pH  6.25 6.25 6.24 6.25 6.25 CR BOTTLE  NWTPH-GX) PH-Dx) (TPH-OD) (Turbic	ORP (mV)  -7.1  -7.4  -7.7  -8.0  -7.6  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity	Turbidity (NTU)  pplicable or write  (8141) (Oil & G	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 10.2 10.2 10.2 10.2 10.2 (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 429.8 429.6 429.5 429.6 NALYSIS AI () (8020) (N CH) (NWTPF letivity) (TD: C) (Total PO-	D.O. (mg/L)  0.45  0.47  0.46  LOWED PE [WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie	CLEAR, CO  PH  6.25 6.25 6.24 6.25 6.25 CR BOTTLE  NWTPH-Gx) PH-Dx) (TPH OD) (Turbio dahl Nitroger	ORP (mV)  -7.1  -7.4  -7.7  -8.0  -7.6  TYPE (Circle a) (BTEX)  H-HCID) (8081)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Order   Temp (°F/°C)	Other Cond. (uS/cm) 429.8 429.6 429.5 429.6 NALYSIS AI () (8020) (N LH) (NWTPH etivity) (TD: C) (Total PO- e) (WAD Cy	D.O. (mg/L)  0.45  0.47  0.46  LOWED PE [WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie anide) (Free	CLEAR, CO  pH  6.25 6.25 6.24 6.25 6.25 CR BOTTLE  NWTPH-Gx) PH-Dx) (TPH OD) (Turbid dahl Nitroger Cyanide)	ORP (mV)  -7.1  -7.4  -7.7  -8.0  -7.6  TYPE (Circle a) (BTEX)  H-HCID) (8081)  dity) (Alkalinity a) (NH3) (NO3.	Turbidity (NTU)  pplicable or write (8141) (Oil & Go (HCO3/CO3) (ONO2)	DTW (ft)  non-standard a  rease) CI) (SO4) (NO	Ferrous iron (Fe II)  malysis below)  WA  WA  WA  O  WA   WA	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.2  10.2  10.2  10.2  10.2  10.2  (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOd (Total Cyanid (Total Metals)	Cond. (uS/cm) 429.8 429.6 429.5 429.6 NALYSIS AI 0) (8020) (N H) (NWTPI ctivity) (TD: C) (Total PO- e) (WAD Cy ) (As) (Sb) (	D.O. (mg/L)  0.45  0.47  0.46  LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	CLEAR, CO  pH  6.25 6.25 6.24 6.25 6.25 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -7.1  -7.4  -7.7  -8.0  -7.6  TYPE (Circle a) (BTEX)  I-HCID) (8081) dity) (Alkalinity) (Alkalinity) (NH3) (NO3)	Turbidity (NTU)  Oplicable or write  (8141) (Oil & G (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  rease) Cl) (SO4) (NC	Ferrous iron (Fe II)  malysis below) WA  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:	Temp (°F/°C)  10.2  10.2  10.2  10.2  10.2  10.2  (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOd (Total Cyanid (Total Metals)	Cond. (uS/cm) 429.8 429.6 429.5 429.6  NALYSIS AI (MYPHetivity) (TDs: (Total POde) (WAD Cy (MAD (S)) (As) (Sb) (Setals) (As) (St)	D.O. (mg/L)  0.45  0.47  0.46  LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	CLEAR, CO  pH  6.25 6.25 6.24 6.25 6.25 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -7.1  -7.4  -7.7  -8.0  -7.6  TYPE (Circle a) (BTEX)  I-HCID) (8081) dity) (Alkalinity) (Alkalinity) (NH3) (NO3)	Turbidity (NTU)  Oplicable or write  (8141) (Oil & G (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  rease) Cl) (SO4) (NC	Ferrous iron (Fe II)  malysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 10.2 10.2 10.2 10.2 10.2 10.2 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOtal Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 429.8 429.6 429.5 429.6  NALYSIS AI (MYPHetivity) (TDs: (Total POde) (WAD Cy (MAD (S)) (As) (Sb) (Setals) (As) (St)	D.O. (mg/L)  0.45  0.45  0.47  0.46  LOWED PE  WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	CLEAR, CO  pH  6.25 6.25 6.24 6.25 6.25 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -7.1  -7.4  -7.7  -8.0  -7.6  TYPE (Circle a) (BTEX)  I-HCID) (8081) dity) (Alkalinity) (Alkalinity) (NH3) (NO3)	Turbidity (NTU)  Oplicable or write  (8141) (Oil & G (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  rease) Cl) (SO4) (NC	Ferrous iron (Fe II)  malysis below) WA  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:	Temp (°F/°C) 10.2 10.2 10.2 10.2 10.2 10.2 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOtal Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 429.8 429.6 429.5 429.6 A29.5 429.6 NALYSIS AI () (8020) (N LH) (NWTPF ctivity) (TD: (C) (Total PO- e) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb) g short list)	D.O. (mg/L)  0.45  0.45  0.47  0.46  LOWED PE  WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	CLEAR, CO  pH  6.25 6.25 6.24 6.25 6.25 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -7.1  -7.4  -7.7  -8.0  -7.6  TYPE (Circle a) (BTEX)  I-HCID) (8081) dity) (Alkalinity) (Alkalinity) (NH3) (NO3)	Turbidity (NTU)  Oplicable or write  (8141) (Oil & G (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  rease) Cl) (SO4) (NC	Ferrous iron (Fe II)  malysis below) WA  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:	Temp (°F/°C) 10.2 10.2 10.2 10.2 10.2 10.2 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOtal Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 429.8 429.6 429.5 429.6 A29.5 429.6 NALYSIS AI () (8020) (N LH) (NWTPF ctivity) (TD: (C) (Total PO- e) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb) g short list)	D.O. (mg/L)  0.45  0.45  0.47  0.46  LOWED PE  WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	CLEAR, CO  pH  6.25 6.25 6.24 6.25 6.25 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -7.1  -7.4  -7.7  -8.0  -7.6  TYPE (Circle a) (BTEX)  I-HCID) (8081) dity) (Alkalinity) (Alkalinity) (NH3) (NO3)	Turbidity (NTU)  Oplicable or write  (8141) (Oil & G (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  rease) Cl) (SO4) (NC	Ferrous iron (Fe II)  malysis below) WA  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:	Temp (°F/°C) 10.2 10.2 10.2 10.2 10.2 10.2 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOtal Cyanid (Total Metals) (Dissolved M VOC (Boein	Cond. (uS/cm) 429.8 429.6 429.5 429.6 A29.5 429.6 NALYSIS AI () (8020) (N LH) (NWTPF ctivity) (TD: (C) (Total PO- e) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb) g short list)	D.O. (mg/L)  0.45  0.45  0.47  0.46  LOWED PE  WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	CLEAR, CO  pH  6.25 6.25 6.24 6.25 6.25 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -7.1  -7.4  -7.7  -8.0  -7.6  TYPE (Circle a) (BTEX)  I-HCID) (8081) dity) (Alkalinity) (Alkalinity) (NH3) (NO3)	Turbidity (NTU)  Oplicable or write  (8141) (Oil & G (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  rease) Cl) (SO4) (NC	Ferrous iron (Fe II)  malysis below) WA  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:	Temp (°F/°C)  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.8  TYPICAL A  (8260) (8010  (8270D) (PA  (pH) (Condu  (COD) (TOd  (Total Cyanid  (Total Metals  (Dissolved M  VOC (Boein  Methane Eth	Cond. (uS/cm) 429.8 429.6 429.5 429.6 A29.5 429.6 NALYSIS AI () (8020) (N LH) (NWTPF ctivity) (TD: (C) (Total PO- e) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb) g short list)	D.O. (mg/L)  0.45  0.45  0.47  0.46  LOWED PE  WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	CLEAR, CO  pH  6.25 6.25 6.24 6.25 6.25 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -7.1  -7.4  -7.7  -8.0  -7.6  TYPE (Circle a) (BTEX)  I-HCID) (8081) dity) (Alkalinity) (Alkalinity) (NH3) (NO3)	Turbidity (NTU)  Oplicable or write  (8141) (Oil & G (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  rease) Cl) (SO4) (NC	Ferrous iron (Fe II)  malysis below) WA  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:	Temp (°F/°C)  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.2  10.8  TYPICAL A  (8260) (8010  (8270D) (PA  (pH) (Condu  (COD) (TOd  (Total Cyanid  (Total Metals  (Dissolved M  VOC (Boein  Methane Eth	Cond. (uS/cm) 429.8 429.6 429.5 429.6 A29.5 429.6 NALYSIS AI () (8020) (N LH) (NWTPF ctivity) (TD: (C) (Total PO- e) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb) g short list)	D.O. (mg/L)  0.45  0.45  0.47  0.46  LOWED PE  WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	CLEAR, CO  pH  6.25 6.25 6.24 6.25 6.25 R BOTTLE NWTPH-Gx) H-Dx) (TPH OD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  -7.1  -7.4  -7.7  -8.0  -7.6  TYPE (Circle a) (BTEX)  I-HCID) (8081) dity) (Alkalinity) (Alkalinity) (NH3) (NO3)	Turbidity (NTU)  Oplicable or write  (8141) (Oil & G (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  rease) Cl) (SO4) (NC	Ferrous iron (Fe II)  malysis below) WA  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 Name	e:	Boeing Ren	iton		Project Number	:	0025217.099.0	99	
Event:		Feb. 2021		_	Date/Time:	2/ 15 /2021@	1045		
Sample Num	nber:	RGW211S-	210215		Weather:	COLD, RAIN, S	NOW ON GR	OUND	
Landau Repr	resentative:	BXM			_				
WATER LEV	/FI/W/FII/PI	IRGE DATA							
Well Conditio		Secure (YES	3	Damaged (N	(0)	Describe:	Flush Mount		
DTW Before		8.74	Time:	- '	Flow through cel			GW Meter No.(s	s SLOPE 8
Begin Purge:	0 0 0			End Purge:	-	2/ 15 /2021 @,	1042	Gallons Purged:	
Purge water d		2/ 13/2021	55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	
i uige water u	isposed to.		55-gai Diuiii	- 4	Storage Talik	E Ground	Other	SHE IKLAIM	ENTSISIEM
Time	Temp (°F/°C)	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	, ,	(uS/cm) ls: Stablizatio	(mg/L) on of Paramet	ters for three	(mV) consecutive read	(NTU) ings within the fo	(ft) llowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1023	7.3	226.4	1.07	6.21	-2.6		8.74		
1026	6.4	247.4	0.80	6.25	-5.4		8.74		
1029	6.4	252.0	0.44	6.30			8.74		
-					-11.3				
1032	6.3	238.6	0.32	6.30	-18.9		8.74		
1035	6.2	225.3	0.23	6.32	-25.6				
1038	6.2	215.6	0.28	6.30	-29.4				
1041	6.2	208.9	0.34	6.30	-30.8				
SAMPLE CO	LLECTION D	DATA						<u> </u>	
Sample Collec	cted With:		Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Ste	el	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Wa	sh $\square$	Tap Rinse	DI Water	Dedicated	_	_	
				F	Щ				
(Bv Numerica	l Order)	Other							
(By Numerica Sample Descr		Other turbidity, odo	r, sheen, etc.):	CLOUDY, Y	/ELLOW-BROW	N TINT, NO ODO	R, NO SHEEN		
, •		₩	r, sheen, etc.):	CLOUDY, Y	ZELLOW-BROW	N TINT, NO ODO	R, NO SHEEN		
. •		₩	D.O. (mg/L)	CLOUDY, Y	ORP (mV)	N TINT, NO ODO  Turbidity (NTU)	R, NO SHEEN  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)	pН	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate  1 2	Temp (°F/°C) 6.2	Cond. (uS/cm) 206.9	D.O. (mg/L) 0.34 0.36	<b>pH</b> 6.31 6.30	ORP (mV) -31.4 -31.4	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 6.2 6.2	Cond. (uS/cm) 206.9 207.4	D.O. (mg/L) 0.34 0.36	<b>pH</b> 6.31  6.30  6.30	ORP (mV) -31.4 -31.8	Turbidity	DTW		
Replicate  1 2 3 4	Temp (°F/°C) 6.2 6.2 6.2	Cond. (uS/cm)  206.9  207.4  207.0  205.9	D.O. (mg/L) 0.34 0.36 0.37	pH  6.31  6.30  6.30  6.30	ORP (mV) -31.4 -31.4 -31.8 -32.0	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 6.2 6.2	Cond. (uS/cm) 206.9 207.4	D.O. (mg/L) 0.34 0.36	<b>pH</b> 6.31  6.30  6.30	ORP (mV) -31.4 -31.8	Turbidity	DTW		
Replicate  1 2 3 4 Average:	Temp (°F/°C)  6.2  6.2  6.2  6.2	Cond. (uS/cm) 206.9 207.4 207.0 205.9 206.8	D.O. (mg/L) 0.34 0.36 0.37 0.38	6.31 6.30 6.30 6.30 6.30	ORP (mV)  -31.4  -31.4  -31.8  -32.0  -31.7	Turbidity	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.2 6.2 6.2 6.2 6.2 7YPICAL A (8260) (8010	Cond. (uS/cm) 206.9 207.4 207.0 205.9 206.8  NALYSIS AI 0) (8020) (N	D.O. (mg/L)  0.34  0.36  0.37  0.38  0.36  LLOWED PERWYPH-G) (	6.31 6.30 6.30 6.30 6.30 6.30 RER BOTTLE	ORP (mV)  -31.4  -31.4  -31.8  -32.0  -31.7  TYPE (Circle apple) (BTEX)	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.2 6.2 6.2 6.2 7YPICAL A (8260) (8010) (8270) (PAH	Cond. (uS/cm) 206.9 207.4 207.0 205.9 206.8  NALYSIS AI () (8020) (NI) (NWTPH-	D.O. (mg/L)  0.34  0.36  0.37  0.38  0.36  LLOWED PERMYPH-G) (NWTPH-G)	6.31 6.30 6.30 6.30 6.30 ER BOTTLE NWTPH-Gx	ORP (mV)  -31.4  -31.8  -32.0  -31.7  TYPE (Circle apple (BTEX))  HCID) (8081) (	Turbidity (NTU)  pplicable or write a	DTW (ft)	nalysis below) WA  WA  WA	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.2 6.2 6.2 6.2 7YPICAL A (8260) (8010 (8270) (PAF (pH) (Condu	Cond. (uS/cm) 206.9 207.4 207.0 205.9 206.8  NALYSIS AI () (8020) (N H) (NWTPH- Inctivity) (TD	D.O. (mg/L)  0.34  0.36  0.37  0.38  0.36  LLOWED PERWYPH-G) ( D) (NWTPH-G) ( S) (TSS) (B	6.31 6.30 6.30 6.30 6.30 6.30 ER BOTTLE NWTPH-Gx, I-Dx) (TPH-	ORP (mV)  -31.4  -31.8  -32.0  -31.7  TYPE (Circle ap (BTEX)  HCID) (8081) (dity) (Alkalinity)	Turbidity (NTU)  pplicable or write and the second	DTW (ft)	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.2 6.2 6.2 6.2 6.2 7YPICAL A (8260) (8010 (8270) (PAF (pH) (Condu	Cond. (uS/cm) 206.9 207.4 207.0 205.9 206.8 NALYSIS AI 0) (8020) (N II) (NWTPH- ictivity) (TD	D.O. (mg/L)  0.34  0.36  0.37  0.38  0.36  LLOWED PENWTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie	6.31 6.30 6.30 6.30 6.30 6.30 CR BOTTLE NWTPH-Gx, I-Dx) (TPH- BOD) (Turbic dahl Nitroger	ORP (mV)  -31.4  -31.8  -32.0  -31.7  TYPE (Circle apple (BTEX))  HCID) (8081) (	Turbidity (NTU)  pplicable or write and the second	DTW (ft)	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.2 6.2 6.2 6.2 6.2 6.2 6.2 (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOO (Total Cyanid	Cond. (uS/cm)  206.9  207.4  207.0  205.9  206.8  NALYSIS AI () (8020) (N I) (NWTPH- activity) (TD C) (Total PO-	D.O. (mg/L)  0.34  0.36  0.37  0.38  0.36  LLOWED PE WTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free	pH  6.31  6.30  6.30  6.30  6.30  ER BOTTLE  NWTPH-GX  I-DX) (TPH-  BOD) (Turbic dahl Nitroger  Cyanide)	ORP (mV)  -31.4  -31.8  -32.0  -31.7  TYPE (Circle apple (BTEX))  HCID) (8081) (dity) (Alkalinity)  (in) (NH3) (NO3/	Turbidity (NTU)  pplicable or write in the second s	DTW (ft)  non-standard a 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
Replicate  1 2 3 4 Average:	Temp (°F/°C)  6.2  6.2  6.2  6.2  6.2  6.2  (8270) (8010) (8270) (PAH (PH) (Conduction (COD) (Total Cyanidal (Total Metals)	Cond. (uS/cm)  206.9  207.4  207.0  205.9  206.8  NALYSIS AI (NWTPH-activity) (TD (C) (Total PO- le) (WAD Cy () (As) (Sb) (	D.O. (mg/L)  0.34  0.36  0.37  0.38  0.36  LLOWED PE WTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca	pH  6.31  6.30  6.30  6.30  6.30  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH-GOD) (Turbic dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -31.4  -31.8  -32.0  -31.7  TYPE (Circle apple (BTEX)  HCID) (8081) (dity) (Alkalinity) a) (NH3) (NO3/	Turbidity (NTU)  pplicable or write of the second s	DTW (ft)  non-standard a  ase) Cl) (SO4) (NO	nalysis below) WA  WA  OB WA  OB WA  OB WA  OB WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.2 6.2 6.2 6.2 6.2 7YPICAL A (8260) (8010 (8270) (PAH (pH) (Conduction (COD) (TOG) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm)  206.9  207.4  207.0  205.9  206.8  NALYSIS AI  () (8020) (N  () (NWTPH-  ictivity) (TD  () (Total PO-  ictic) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L)  0.34  0.36  0.37  0.38  0.36  LLOWED PE WTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca	pH  6.31  6.30  6.30  6.30  6.30  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH-GOD) (Turbic dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -31.4  -31.8  -32.0  -31.7  TYPE (Circle apple (BTEX)  HCID) (8081) (dity) (Alkalinity) a) (NH3) (NO3/	Turbidity (NTU)  pplicable or write of the second s	DTW (ft)  non-standard a  ase) Cl) (SO4) (NO	nalysis below) WA  WA  OB WA  OB WA  OB WA  OB WA	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.2 6.2 6.2 6.2 6.2 7YPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 206.9 207.4 207.0 205.9 206.8  NALYSIS AI () (8020) (N H) (NWTPH- ictivity) (TD C) (Total PO le) (WAD C) () (As) (Sb) (etals) (As) (Sl g short list)	D.O. (mg/L)  0.34  0.36  0.37  0.38  0.36  LLOWED PENWTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH  6.31  6.30  6.30  6.30  6.30  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH-GOD) (Turbic dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -31.4  -31.8  -32.0  -31.7  TYPE (Circle apple (BTEX)  HCID) (8081) (dity) (Alkalinity) a) (NH3) (NO3/	Turbidity (NTU)  pplicable or write of the second s	DTW (ft)  non-standard a  ase) Cl) (SO4) (NO	nalysis below) WA  WA  OB WA  OB WA  OB WA  OB WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.2 6.2 6.2 6.2 6.2 7YPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  206.9  207.4  207.0  205.9  206.8  NALYSIS AI  () (8020) (N  () (NWTPH-  ictivity) (TD  () (Total PO-  ictic) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L)  0.34  0.36  0.37  0.38  0.36  LLOWED PENWTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH  6.31  6.30  6.30  6.30  6.30  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH-GOD) (Turbic dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -31.4  -31.8  -32.0  -31.7  TYPE (Circle apple (BTEX)  HCID) (8081) (dity) (Alkalinity) a) (NH3) (NO3/	Turbidity (NTU)  pplicable or write of the second s	DTW (ft)  non-standard a  ase) Cl) (SO4) (NO	nalysis below) WA  WA  OB WA  OB WA  OB WA  OB WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.2 6.2 6.2 6.2 6.2 7YPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 206.9 207.4 207.0 205.9 206.8  NALYSIS AI () (8020) (N H) (NWTPH- ictivity) (TD C) (Total PO le) (WAD C) () (As) (Sb) (etals) (As) (Sl g short list)	D.O. (mg/L)  0.34  0.36  0.37  0.38  0.36  LLOWED PENWTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH  6.31  6.30  6.30  6.30  6.30  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH-GOD) (Turbic dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -31.4  -31.8  -32.0  -31.7  TYPE (Circle apple (BTEX)  HCID) (8081) (dity) (Alkalinity) a) (NH3) (NO3/	Turbidity (NTU)  pplicable or write of the second s	DTW (ft)  non-standard a  ase) Cl) (SO4) (NO	nalysis below) WA  WA  OB WA  OB WA  OB WA  OB WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY  2	Temp (°F/°C) 6.2 6.2 6.2 6.2 6.2 7YPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 206.9 207.4 207.0 205.9 206.8  NALYSIS AI () (8020) (N H) (NWTPH- ictivity) (TD C) (Total PO le) (WAD C) () (As) (Sb) (etals) (As) (Sl g short list)	D.O. (mg/L)  0.34  0.36  0.37  0.38  0.36  LLOWED PENWTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH  6.31  6.30  6.30  6.30  6.30  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH-GOD) (Turbic dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -31.4  -31.8  -32.0  -31.7  TYPE (Circle apple (BTEX)  HCID) (8081) (dity) (Alkalinity) a) (NH3) (NO3/	Turbidity (NTU)  pplicable or write of the second s	DTW (ft)  non-standard a  ase) Cl) (SO4) (NO	nalysis below) WA  WA  OB WA  OB WA  OB WA  OB WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY  2	Temp (°F/°C) 6.2 6.2 6.2 6.2 6.2 7YPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 206.9 207.4 207.0 205.9 206.8  NALYSIS AI () (8020) (N H) (NWTPH- ictivity) (TD C) (Total PO le) (WAD C) () (As) (Sb) (etals) (As) (Sl g short list)	D.O. (mg/L)  0.34  0.36  0.37  0.38  0.36  LLOWED PENWTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH  6.31  6.30  6.30  6.30  6.30  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH-GOD) (Turbic dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -31.4  -31.8  -32.0  -31.7  TYPE (Circle apple (BTEX)  HCID) (8081) (dity) (Alkalinity) a) (NH3) (NO3/	Turbidity (NTU)  pplicable or write of the second s	DTW (ft)  non-standard a  ase) Cl) (SO4) (NO	nalysis below) WA  WA  OB WA  OB WA  OB WA  OB WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY  2	Temp (°F/°C) 6.2 6.2 6.2 6.2 6.2 7YPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 206.9 207.4 207.0 205.9 206.8  NALYSIS AI () (8020) (N H) (NWTPH- ictivity) (TD C) (Total PO le) (WAD C) () (As) (Sb) (etals) (As) (Sl g short list)	D.O. (mg/L)  0.34  0.36  0.37  0.38  0.36  LLOWED PENWTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH  6.31  6.30  6.30  6.30  6.30  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH-GOD) (Turbic dahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -31.4  -31.8  -32.0  -31.7  TYPE (Circle apple (BTEX)  HCID) (8081) (dity) (Alkalinity) a) (NH3) (NO3/	Turbidity (NTU)  pplicable or write of the second s	DTW (ft)  non-standard a  ase) Cl) (SO4) (NO	nalysis below) WA  WA  OB WA  OB WA  OB WA  OB WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Name	e:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2021			Date/Time:	2/ 15 /2021@	1255		
Sample Num	nber:	RGW221S-	210215		Weather:	RAIN, COLD, S	SNOW ON GR	OUND	
Landau Repr	resentative:	BXM							
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Condition	n:	Secure (YES	)	Damaged (N	O)	Describe:	Flush Mount		
DTW Before	Purging (ft)	8.87	Time:	1230	Flow through ce	ll vol.		GW Meter No.(s	s SLOPE 8
Begin Purge:	Date/Time:	2/ 15 /2021	1231	End Purge:	Date/Time:	2/ 15 /2021 @	1253	Gallons Purged:	<1
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
	_					lings within the fo	~	>/= 1 flow	
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1234	11.1	199.8	1.08	6.19	16.5		8.87		
1237	9.8	193.7	0.94	6.20	12.3		8.87		
1240	8.9	188.8	0.84	6.19	9.2		8.87		
1243	7.9	181.3	0.88	6.18	7.3				
1246	7.3	177.8	0.83	6.18	6.3				
1249	7.0	174.2	0.81	6.17	5.1				
1252	6.8	172.2	0.78	6.18	3.9			· <del></del>	
1232	0.8	1/2.2	0.78	0.16	3.9				
SAMPLE CO	LIECTIONE	) A T A							
Sample Collection			Bailer		Pumn/Pumn Tyne	DED BLADDER			
Made of:		Stainless Ste	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Wa	_	Tap Rinse	DI Water	Dedicated		Dealeaned	
			511	rap Kilise	□ Di Water	Dedicated			
	( ( )rdor)	( )ther							
(By Numerica Sample Descr		Other	sheen etc.):	CLEAR CO	LORLESS NO.0	DOOR NO SHEEN	I		
. •		_	, sheen, etc.):	CLEAR, CO	LORLESS, NO C	DOR, NO SHEEN	I		
		_	D.O. (mg/L)	CLEAR, CO	ORP (mV)	DDOR, NO SHEEN  Turbidity  (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	iption (color, t	turbidity, odor	D.O.		ORP	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm) 172.4	D.O. (mg/L)	<b>рН</b> 6.18	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate  1 2	Temp (°F/°C) 6.7	Cond. (uS/cm) 172.4 172.4	D.O. (mg/L) 0.79	<b>pH</b> 6.18 6.18	ORP (mV) 3.8 3.8	Turbidity	DTW		
Replicate  1 2 3 4	Temp (°F/°C) 6.7 6.7	Cond. (uS/cm)  172.4  172.4  171.8	D.O. (mg/L) 0.79 0.78 0.78	pH  6.18  6.18  6.17  6.18	ORP (mV)  3.8  3.8  3.6  3.7	Turbidity	DTW		
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.7 6.7 6.7	Cond. (uS/cm)  172.4  172.4  172.4  171.8  172.3	D.O. (mg/L)  0.79  0.78  0.79  0.79	6.18 6.18 6.17 6.18 6.18	ORP (mV)  3.8  3.8  3.6  3.7	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.7 6.7 6.7 6.7 7	Cond. (uS/cm) 172.4 172.4 172.4 171.8 172.3	D.O. (mg/L)  0.79  0.78  0.79  0.79  0.79  LLOWED PE	6.18 6.18 6.17 6.18 6.18 6.18	ORP (mV)  3.8  3.8  3.6  3.7  3.7  TYPE (Circle a)	Turbidity	DTW (ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.7 6.7 6.7 6.7 7 7 7 7 7 7 7 7 8 1 8 1 8 1 8 1 8 1 8	Cond. (uS/cm)  172.4  172.4  172.4  171.8  172.3  NALYSIS AI  0) (8020) (N	D.O. (mg/L)  0.79  0.78  0.78  0.79  0.79  UCLOWED PERWYPH-G) (	6.18 6.18 6.17 6.18 6.18 6.18 ER BOTTLE	ORP (mV)  3.8  3.6  3.7  3.7  TYPE (Circle ap (BTEX)	Turbidity (NTU)	DTW (ft)	nalysis below)	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.7 6.7 6.7 6.7 7 7 7 7 7 8260) (8010 (8270) (PAH	Cond. (uS/cm)  172.4  172.4  172.4  171.8  172.3  NALYSIS AI  0) (8020) (NI) (NWTPH-	D.O. (mg/L)  0.79  0.78  0.79  0.79  0.79  1.40WED PE	6.18 6.18 6.17 6.18 6.18 6.18 CR BOTTLE NWTPH-GX	3.8 3.8 3.6 3.7 3.7 TYPE (Circle a) (BTEX) HCID) (8081)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre	DTW (ft)  non-standard a	nalysis below) WA  WA  WA	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.7 6.7 6.7 6.7 7 7 7 7 7 7 7 7 7 8 8 8 9 9 9 9 9 9 9	Cond. (uS/cm) 172.4 172.4 172.4 171.8 172.3 NALYSIS AI 0) (8020) (NI) (NWTPH- activity) (TD:	D.O. (mg/L)  0.79  0.78  0.79  0.79  0.79  0.79  LLOWED PERMYPH-G) (MYTPH-G)	6.18 6.18 6.18 6.18 6.18 CR BOTTLE NWTPH-Gx) 1-Dx) (TPH- SOD) (Turbic	ORP (mV)  3.8  3.8  3.6  3.7  3.7  TYPE (Circle a) (BTEX)  HCID) (8081) (dity) (Alkalinity)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre (HCO3/CO3) (0	DTW (ft)  non-standard a	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.7 6.7 6.7 6.7 6.7 6.7 (8260) (8010) (8270) (PAH) (Conduction) (TOO	Cond. (uS/cm)  172.4  172.4  172.4  171.8  172.3  NALYSIS AI  O) (8020) (N H) (NWTPH-  detivity) (TD: C) (Total PO-	D.O. (mg/L)  0.79  0.78  0.79  0.79  0.79  LLOWED PERWITPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie	6.18 6.18 6.17 6.18 6.18 6.18 CR BOTTLE NWTPH-Gx I-Dx) (TPH-GX) (Turbio dahl Nitroger	3.8 3.8 3.6 3.7 3.7 TYPE (Circle a) (BTEX) HCID) (8081)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre (HCO3/CO3) (0	DTW (ft)  non-standard a	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.7 6.7 6.7 6.7 6.7 6.7 (8260) (8010) (8270) (PAH) (Conduction (COD) (TOO) (Total Cyanidal (Cod))	Cond. (uS/cm)  172.4  172.4  172.4  171.8  172.3  NALYSIS AI  (i) (8020) (NI  (i) (NWTPH-  (ictivity) (TD)  (ii) (Total PO-  (iii) (WAD Cy	D.O. (mg/L)  0.79  0.78  0.79  0.79  0.79  LLOWED PERMYPH-G) (D) (NWTPH-S) (TSS) (Bd) (Total Kievanide) (Free	6.18 6.18 6.18 6.18 6.18 6.18 CR BOTTLE NWTPH-Gx; I-Dx) (TPH-GOD) (Turbic dahl Nitroger	ORP (mV)  3.8  3.6  3.7  3.7  TYPE (Circle a) (BTEX)  HCID) (8081) (dity) (Alkalinity a) (NH3) (NO3)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre (HCO3/CO3) (O/NO2)	DTW (ft)  non-standard a ase) CI) (SO4) (NO	nalysis below) WA  WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR □  OR □
Replicate  1 2 3 4 Average:	Temp (°F/°C)  6.7  6.7  6.7  6.7  6.7  7 (6.7)  6.7  6.9  (8260) (8010) (8270) (PAF (pH) (Conduction (COD) (Total Cyanidal (Total Metals)	Cond. (uS/cm)  172.4  172.4  172.4  171.8  172.3  NALYSIS AI  O) (8020) (NI  H) (NWTPH-  detivity) (TD:  C) (Total PO-  de) (WAD Cy  ) (As) (Sb) (	D.O. (mg/L)  0.79  0.78  0.78  0.79  0.79  CLOWED PERIMTPH-G) (D) (NWTPH-S) (TSS) (B4) (Total Kiewanide) (Free Ba) (Be) (Ca	6.18 6.18 6.17 6.18 6.18 6.18 ER BOTTLE NWTPH-GX (I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  3.8  3.6  3.7  3.7  TYPE (Circle all (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gre ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR □  OR □
Replicate  1 2 3 4 Average:	Temp (°F/°C)  6.7  6.7  6.7  6.7  6.7  7 (6.7)  6.7  6.9  (8260) (8010) (8270) (PAF (pH) (Conduction (COD) (Total Cyanidal (Total Metals)	Cond. (uS/cm)  172.4  172.4  172.4  171.8  172.3  NALYSIS AI  O) (8020) (N  H) (NWTPH-  lectivity) (TD:  C) (Total PO-  le) (WAD Cy  de) (As) (Sb) ( etals) (As) (Sb) (	D.O. (mg/L)  0.79  0.78  0.78  0.79  0.79  CLOWED PERIMTPH-G) (D) (NWTPH-S) (TSS) (B4) (Total Kiewanide) (Free Ba) (Be) (Ca	6.18 6.18 6.17 6.18 6.18 6.18 ER BOTTLE NWTPH-GX (I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  3.8  3.6  3.7  3.7  TYPE (Circle all (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gre ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.7 6.7 6.7 6.7 6.7 7 7471CAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  172.4  172.4  172.4  171.8  172.3  NALYSIS AI  O) (8020) (N  H) (NWTPH-  lectivity) (TD:  C) (Total PO-  le) (WAD Cy  de) (As) (Sb) ( etals) (As) (Sb) (	D.O. (mg/L)  0.79  0.78  0.79  0.79  0.79  LLOWED PERWITH-G) (INWITH-G) (INWI	6.18 6.18 6.17 6.18 6.18 6.18 ER BOTTLE NWTPH-GX (I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  3.8  3.6  3.7  3.7  TYPE (Circle all (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gre ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.7 6.7 6.7 6.7 6.7 7 7471CAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  172.4  172.4  172.4  171.8  172.3  NALYSIS AI  O) (8020) (NI) (NWTPH-  activity) (TD: C) (Total PO- le) (WAD Cy  O) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L)  0.79  0.78  0.79  0.79  0.79  LLOWED PERWITH-G) (INWITH-G) (INWI	6.18 6.18 6.17 6.18 6.18 6.18 ER BOTTLE NWTPH-GX (I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  3.8  3.6  3.7  3.7  TYPE (Circle all (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gre ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY  2	Temp (°F/°C) 6.7 6.7 6.7 6.7 6.7 7 6.7 CEPTICAL A (8260) (8010 (8270) (PAH (PH) (Conduction (Total Cyanida (Total Metals) (Dissolved Methane Ethermore)	Cond. (uS/cm)  172.4  172.4  172.4  171.8  172.3  NALYSIS AI  O) (8020) (NI) (NWTPH-  activity) (TD: C) (Total PO- le) (WAD Cy  O) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L)  0.79  0.78  0.79  0.79  0.79  LLOWED PERWITH-G) (INWITH-G) (INWI	6.18 6.18 6.17 6.18 6.18 6.18 ER BOTTLE NWTPH-GX (I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  3.8  3.6  3.7  3.7  TYPE (Circle all (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gre ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY  2	Temp (°F/°C) 6.7 6.7 6.7 6.7 6.7 7 7471CAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  172.4  172.4  172.4  171.8  172.3  NALYSIS AI  O) (8020) (NI) (NWTPH-  activity) (TD: C) (Total PO- le) (WAD Cy  O) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L)  0.79  0.78  0.79  0.79  0.79  LLOWED PERWITH-G) (INWITH-G) (INWI	6.18 6.18 6.17 6.18 6.18 6.18 ER BOTTLE NWTPH-GX (I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  3.8  3.6  3.7  3.7  TYPE (Circle all (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gre ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY  2	Temp (°F/°C) 6.7 6.7 6.7 6.7 6.7 6.7 7 6.7 6.7 (8260) (8010 (8270) (PAH (PH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  172.4  172.4  172.4  171.8  172.3  NALYSIS AI  O) (8020) (NI) (NWTPH-  activity) (TD: C) (Total PO- le) (WAD Cy  O) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L)  0.79  0.78  0.79  0.79  0.79  LLOWED PERWITH-G) (INWITH-G) (INWI	6.18 6.18 6.17 6.18 6.18 6.18 ER BOTTLE NWTPH-GX (I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  3.8  3.6  3.7  3.7  TYPE (Circle all (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gre ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY	Temp (°F/°C) 6.7 6.7 6.7 6.7 6.7 6.7 7 6.7 6.7 (8260) (8010 (8270) (PAH (PH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  172.4  172.4  172.4  171.8  172.3  NALYSIS AI  O) (8020) (NI) (NWTPH-  activity) (TD: C) (Total PO- le) (WAD Cy  O) (As) (Sb) (etals) (As) (Sb) g short list)	D.O. (mg/L)  0.79  0.78  0.79  0.79  0.79  LLOWED PERWITH-G) (INWITH-G) (INWI	6.18 6.18 6.17 6.18 6.18 6.18 ER BOTTLE NWTPH-GX (I-Dx) (TPH-GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  3.8  3.6  3.7  3.7  TYPE (Circle all (BTEX) HCID) (8081) (dity) (Alkalinity) (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gre ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Nam	ne:	Boeing Rent	on		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2021			Date/Time:	2/ 15/2021@	1205		
Sample Nun	nber:	RGW224S-	210215		Weather:	COLD, WINDY	, SNOW ON C	GROUND	
Landau Rep	resentative:	BXM							
WATERIEV	VEL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES)	1	Damaged (N	(O)	Describe:	Flush Mount		
		9.83	Time:	- '	Flow through ce		1 Iddit Would	GW Motor No. (c	SI ODE 9
DTW Before	Date/Time:			End Purge:	_	2/ 15 /2021 @	1202	GW Meter No.(s	
		$\overline{}$	1140	Ě				Gallons Purged:	
Purge water of	iisposed to:	ш	55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENI SYSIEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm)	(mg/L)	ters for three	(mV)	(NTU) lings within the fo	(ft)	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1143	11.3	123.1	0.97	5.93	10.1		10.00		
1146		132.9	0.29	6.06	3.0		9.94		
			-				-		
1149	10.6	132.7	0.32	6.07	1.0		9.86	-	
1152	10.0	131.8	0.35	6.05	0.4		9.84	-	
1155	9.2	129.0	0.40	6.04	1.2		-		
1158	8.6	126.3	0.43	6.04	1.3				
1201	8.4	125.8	0.46	6.03	0.9				
SAMPLE CO	DLLECTION I								
Sample Colle			Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Stee	_	PVC	Teflon	Polyethylene	Other	Dedicated	
	dure:	Alconox Was	_	Tap Rinse	DI Water	Dedicated	_ ouner	Dedicated	
Decon Proced			·· •	rap remse	□ Di watei	Dedicated			
(By Numerica	al Order)	Other		•	<u>—</u>		r		
(By Numerica	al Order)	Other		•	<u>—</u>	DDOR, NO SHEEN	1		
(By Numerica	al Order)	Other		•	<u>—</u>		DTW	Ferrous iron	Comments/
(By Numerical Sample Description	nl Order)	Other turbidity, odor,	sheen, etc.):	CLEAR, CO	LORLESS, NO C	DDOR, NO SHEEN		Ferrous iron (Fe II)	Comments/ Observations
(By Numerical Sample Description	ription (color, t	Other turbidity, odor,	sheen, etc.):	CLEAR, CO	OLORLESS, NO C	DDOR, NO SHEEN  Turbidity	DTW		
(By Numerical Sample Described Replicate	ription (color, Temp (°F/°C)	Other turbidity, odor,  Cond. (uS/cm)  125.7	D.O. (mg/L)	pH 6.03	OLORLESS, NO COORP (mV)	DDOR, NO SHEEN  Turbidity	DTW		
Replicate	ription (color, ription (color, remp (°F/°C)	Cond. (uS/cm)  125.7	sheen, etc.):  D.O. (mg/L)  0.48  0.48	PH 6.03 6.03	OLORLESS, NO CORP (mV)	DDOR, NO SHEEN  Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C)  8.3  8.3	Cond. (uS/cm)  125.7  125.7	sheen, etc.):  D.O. (mg/L)  0.48  0.48  0.47	pH  6.03  6.03  6.03	OLORLESS, NO COORP (mV)  1.1  1.1  1.2	DDOR, NO SHEEN  Turbidity	DTW		
Replicate	ription (color, ription (color, remp (°F/°C)	Cond. (uS/cm)  125.7	sheen, etc.):  D.O. (mg/L)  0.48  0.48	PH 6.03 6.03	OLORLESS, NO CORP (mV)	DDOR, NO SHEEN  Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C)  8.3  8.3	Cond. (uS/cm)  125.7  125.7	sheen, etc.):  D.O. (mg/L)  0.48  0.48  0.47	pH  6.03  6.03  6.03	OLORLESS, NO COORP (mV)  1.1  1.1  1.2	DDOR, NO SHEEN  Turbidity	DTW		
Replicate  1 2 3 4	Temp (°F/°C)  8.3  8.3  8.3  8.3	Cond. (uS/cm) 125.7 125.7 125.3 125.6	sheen, etc.):  D.O. (mg/L)  0.48  0.48  0.47  0.48  0.48	CLEAR, CO  pH  6.03  6.03  6.03  6.03  6.03	OLORLESS, NO COORP (mV)  1.1  1.1  1.2  0.8  1.1	DDOR, NO SHEEN  Turbidity	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	ription (color, ription (color, ription (color, ription (°F/°C) 8.3 8.3 8.3 8.3 8.3	Cond. (uS/cm) 125.7 125.7 125.3 125.6	sheen, etc.):  D.O. (mg/L)  0.48  0.47  0.48  0.48  LOWED PF	CLEAR, CO  pH  6.03  6.03  6.03  6.03  6.03  6.03	OLORLESS, NO COORP (mV)  1.1  1.1  1.2  0.8  1.1  TYPE (Circle a)	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010	Cond. (uS/cm) 125.7 125.7 125.7 125.3 125.6 NALYSIS AL 0) (8020) (N	sheen, etc.):  D.O. (mg/L)  0.48  0.47  0.48  0.48  LOWED PF	CLEAR, CO  pH  6.03 6.03 6.03 6.03 6.03 ER BOTTLE NWTPH-GX	OLORLESS, NO COORP (mV)  1.1  1.2  0.8  1.1  TYPE (Circle ap (BTEX)	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  8.3  8.3  (8260) (8010) (8270) (PAH	Cond. (uS/cm) 125.7 125.7 125.7 125.3 125.6  NALYSIS AL D) (8020) (N I) (NWTPH-I	sheen, etc.):  D.O. (mg/L)  0.48  0.47  0.48  0.48  ULOWED PI  WTPH-G) (O) (NWTPH	PH  6.03 6.03 6.03 6.03 6.03 6.03 FER BOTTLE (NWTPH-Gx) 1-Dx) (TPH-	OLORLESS, NO COORP (mV)  1.1  1.2  0.8  1.1  TYPE (Circle approximately (BTEX))  HCID) (8081)	Turbidity (NTU)	DTW (ft)  non-standard a	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu	Cond. (uS/cm)  125.7  125.7  125.3  125.6  NALYSIS AL () (8020) (N I) (NWTPH-I	D.O. (mg/L)  0.48  0.48  0.48  0.48  0.48  LOWED PI WTPH-G) ( D) (NWTPH-G) (TSS) (ESS) (ESS)	CLEAR, CO  pH  6.03 6.03 6.03 6.03 6.03 6.03 CER BOTTLE (NWTPH-Gx) 1-Dx) (TPH-GX) 1-Dx) (TPH-GX) 1-Dx) (Turbic	OLORLESS, NO COORP (mV)  1.1  1.2  0.8  1.1  TYPE (Circle approximately (BTEX))  HCID) (8081)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre) (HCO3/CO3) (0	DTW (ft)  non-standard a	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Conduction) (COD) (TOO) (Total Cyanidal	Cond. (uS/cm) 125.7 125.7 125.7 125.3 125.6 NALYSIS AL 0) (8020) (N I) (NWTPH-I uctivity) (TDS	sheen, etc.):  D.O. (mg/L)  0.48  0.47  0.48  0.48  LOWED PF WTPH-G) (O) (NWTPH-G) (TSS) (E) (Total Kielanide) (Free	pH  6.03  6.03  6.03  6.03  6.03  6.03  ER BOTTLE (NWTPH-Gx) H-Dx) (TPH- BOD) (Turbic dahl Nitrogen	OLORLESS, NO COORP (mV)  1.1  1.2  0.8  1.1  TYPE (Circle aportion (MT))  HCID) (8081) (MT)  dity) (Alkalinity (MT)) (NO3.	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre (HCO3/CO3) (6/NO2)	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270) (PAH (COD) (Todal Cyanida (Total Metals)	Cond. (uS/cm) 125.7 125.7 125.7 125.3 125.6 NALYSIS AL 0) (8020) (N I) (NWTPH-I detivity) (TDS C) (Total PO4 le) (WAD Cyd) (As) (Sb) (I	sheen, etc.):  D.O. (mg/L)  0.48  0.47  0.48  0.48  LOWED PF WTPH-G) (NWTPF G) (TSS) (E G) (Total Kicker) (Freeds) (Freeds) (Career)	CLEAR, CO  PH  6.03 6.03 6.03 6.03 6.03 ER BOTTLE (NWTPH-GX) 1-Dx) (TPH-GOD) (Turbic delahl Nitrogen et Cyanide) a) (Cd) (Co)	OLORLESS, NO COORP (mV)  1.1  1.2  0.8  1.1  TYPE (Circle aporto (Circle aporto (Street))  HCID) (8081) (dity) (Alkalinity)  n) (NH3) (NO3)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (O/NO2)  (Pb) (Mg) (Mn) (	non-standard a ase) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm) 125.7 125.7 125.7 125.3 125.6  NALYSIS AL (D) (8020) (N (I) (NWTPH-I (Ictivity) (TDS) (C) (Total PO4 (I) (WAD Cyt) (I) (As) (Sb) (I) (etals) (As) (Sb) (Sb)	sheen, etc.):  D.O. (mg/L)  0.48  0.47  0.48  0.48  LOWED PF WTPH-G) (NWTPF G) (TSS) (E G) (Total Kicker) (Freeds) (Freeds) (Career)	CLEAR, CO  PH  6.03 6.03 6.03 6.03 6.03 ER BOTTLE (NWTPH-GX) 1-Dx) (TPH-GOD) (Turbic delahl Nitrogen et Cyanide) a) (Cd) (Co)	OLORLESS, NO COORP (mV)  1.1  1.2  0.8  1.1  TYPE (Circle aporto (Circle aporto (Street))  HCID) (8081) (dity) (Alkalinity)  n) (NH3) (NO3)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (O/NO2)  (Pb) (Mg) (Mn) (	non-standard a ase) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 125.7 125.7 125.7 125.3 125.6 NALYSIS AL (D) (8020) (N (I) (NWTPH-Inctivity) (TDS) (C) (Total PO4) (e) (WAD Cyc.) (As) (Sb) (Inctals) (As) (Sb (g short list)	D.O. (mg/L)  0.48  0.48  0.47  0.48  0.48  LOWED PP WTPH-G) (CO) (NWTPH-G) (Free Ba) (Free Ba) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (C	CLEAR, CO  PH  6.03 6.03 6.03 6.03 6.03 ER BOTTLE (NWTPH-GX) 1-Dx) (TPH-GOD) (Turbic delahl Nitrogen et Cyanide) a) (Cd) (Co)	OLORLESS, NO COORP (mV)  1.1  1.2  0.8  1.1  TYPE (Circle aporto (Circle aporto (Street))  HCID) (8081) (dity) (Alkalinity)  n) (NH3) (NO3)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (O/NO2)  (Pb) (Mg) (Mn) (	non-standard a ase) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  TI) (V) (Zn) (H	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 125.7 125.7 125.7 125.3 125.6  NALYSIS AL (1) (8020) (N (1) (NWTPH-I lectivity) (TDS (2) (Total PO4) (be) (WAD Cyt) (c) (As) (Sb) (Il etals) (As) (Sb)	D.O. (mg/L)  0.48  0.48  0.47  0.48  0.48  LOWED PP WTPH-G) (CO) (NWTPH-G) (Free Ba) (Free Ba) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (C	CLEAR, CO  PH  6.03 6.03 6.03 6.03 6.03 ER BOTTLE (NWTPH-GX) 1-Dx) (TPH-GOD) (Turbic delahl Nitrogen et Cyanide) a) (Cd) (Co)	OLORLESS, NO COORP (mV)  1.1  1.2  0.8  1.1  TYPE (Circle aporto (Circle aporto (Street))  HCID) (8081) (dity) (Alkalinity)  n) (NH3) (NO3)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (O/NO2)  (Pb) (Mg) (Mn) (	non-standard a ase) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 125.7 125.7 125.7 125.3 125.6 NALYSIS AL (D) (8020) (N (I) (NWTPH-Inctivity) (TDS) (C) (Total PO4) (e) (WAD Cyc.) (As) (Sb) (Inctals) (As) (Sb (g short list)	D.O. (mg/L)  0.48  0.48  0.47  0.48  0.48  LOWED PP WTPH-G) (CO) (NWTPH-G) (Free Ba) (Free Ba) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (C	CLEAR, CO  PH  6.03 6.03 6.03 6.03 6.03 ER BOTTLE (NWTPH-GX) 1-Dx) (TPH-GOD) (Turbic delahl Nitrogen et Cyanide) a) (Cd) (Co)	OLORLESS, NO COORP (mV)  1.1  1.2  0.8  1.1  TYPE (Circle aporto (Circle aporto (Street))  HCID) (8081) (dity) (Alkalinity)  n) (NH3) (NO3)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (O/NO2)  (Pb) (Mg) (Mn) (	non-standard a ase) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270) (PAF- (pH) (Condu- (COD) (Total Cyanidal Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 125.7 125.7 125.7 125.3 125.6 NALYSIS AL (D) (8020) (N (I) (NWTPH-Inctivity) (TDS) (C) (Total PO4) (e) (WAD Cyc.) (As) (Sb) (Inctals) (As) (Sb (g short list)	D.O. (mg/L)  0.48  0.48  0.47  0.48  0.48  LOWED PP WTPH-G) (CO) (NWTPH-G) (Free Ba) (Free Ba) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (C	CLEAR, CO  PH  6.03 6.03 6.03 6.03 6.03 ER BOTTLE (NWTPH-GX) 1-Dx) (TPH-GOD) (Turbic delahl Nitrogen et Cyanide) a) (Cd) (Co)	OLORLESS, NO COORP (mV)  1.1  1.2  0.8  1.1  TYPE (Circle aporto (Circle aporto (Street))  HCID) (8081) (dity) (Alkalinity)  n) (NH3) (NO3)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (O/NO2)  (Pb) (Mg) (Mn) (	non-standard a ase) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 125.7 125.7 125.7 125.3 125.6 NALYSIS AL (D) (8020) (N (I) (NWTPH-Inctivity) (TDS) (C) (Total PO4) (e) (WAD Cyc.) (As) (Sb) (Inctals) (As) (Sb (g short list)	D.O. (mg/L)  0.48  0.48  0.47  0.48  0.48  LOWED PP WTPH-G) (CO) (NWTPH-G) (Free Ba) (Free Ba) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (C	CLEAR, CO  PH  6.03 6.03 6.03 6.03 6.03 ER BOTTLE (NWTPH-GX) 1-Dx) (TPH-GOD) (Turbic delahl Nitrogen et Cyanide) a) (Cd) (Co)	OLORLESS, NO COORP (mV)  1.1  1.2  0.8  1.1  TYPE (Circle aporto (Circle aporto (Street))  HCID) (8081) (dity) (Alkalinity)  n) (NH3) (NO3)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (O/NO2)  (Pb) (Mg) (Mn) (	non-standard a ase) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270) (PAF- (pH) (Condu- (COD) (Total Cyanida) (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 125.7 125.7 125.7 125.3 125.6 NALYSIS AL (D) (8020) (N (I) (NWTPH-Inctivity) (TDS) (C) (Total PO4) (e) (WAD Cyc.) (As) (Sb) (Inctals) (As) (Sb (g short list)	sheen, etc.):  D.O. (mg/L)  0.48  0.47  0.48  0.48  CLOWED PI WTPH-G) (NWTPH-G) (TSS) (E) (Total Kielanide) (Freedam) (Ba) (Ba) (Ba) (Be) (Cartelled (Ba) (Ba) (Ba) (Be) (Cartelled (Ba) (Ba) (Be) (Cartelled (Ba) (Ba) (Be) (Cartelled (Ba) (Ba) (Be) (Cartelled (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba)	PH  6.03 6.03 6.03 6.03 6.03 6.03 FER BOTTLE (NWTPH-Gx) H-Dx) (TPH-Gx) Edahl Nitroger Cyanide) a) (Cd) (Co) Ca) (Cd) (Co)	OLORLESS, NO COORP (mV)  1.1  1.2  0.8  1.1  TYPE (Circle aporto (Circle aporto (Street))  HCID) (8081) (dity) (Alkalinity)  n) (NH3) (NO3)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (O/NO2)  (Pb) (Mg) (Mn) (	non-standard a ase) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270) (PAF- (pH) (Condu- (COD) (Total Cyanida) (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 125.7 125.7 125.7 125.3 125.6  NALYSIS AL () (8020) (N I) (NWTPH-Intivity) (TDS C) (Total PO4 le) (WAD Cyt) () (As) (Sb) (Il etals) (As) (Sb g short list) ane Ethene Ac	sheen, etc.):  D.O. (mg/L)  0.48  0.47  0.48  0.48  CLOWED PI WTPH-G) (NWTPH-G) (TSS) (E) (Total Kielanide) (Freedam) (Ba) (Ba) (Ba) (Be) (Cartelled (Ba) (Ba) (Ba) (Be) (Cartelled (Ba) (Ba) (Be) (Cartelled (Ba) (Ba) (Be) (Cartelled (Ba) (Ba) (Be) (Cartelled (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba) (Ba)	PH  6.03 6.03 6.03 6.03 6.03 6.03 FER BOTTLE (NWTPH-Gx) H-Dx) (TPH-Gx) Edahl Nitroger Cyanide) a) (Cd) (Co) Ca) (Cd) (Co)	OLORLESS, NO COORP (mV)  1.1  1.2  0.8  1.1  TYPE (Circle aportion (BTEX)) HCID) (8081) (dity) (Alkalinity) (MH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (O/NO2)  (Pb) (Mg) (Mn) (	non-standard a ase) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  TI) (V) (Zn) (H	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:		Feb. 2021			Date/Time:	2/ 15 /2021@	1000		
Sample Nun	nber:	RGWDUP3	210215		Weather:	COLD, WINDY	, SNOW ON C	GROUND	
Landau Rep	resentative:	BXM							
WATEDIEV	VEL/WELL/PU	IDGE DATA							
Well Condition		Secure (YES	)	Damaged (N	(0)	Describe	Flush Mount		
		`		- '			Trush Mount	CWAM . N. /	CI OPE 0
DTW Before		9.83	Time:	1139	-			GW Meter No.(	
		2/15 /2021	1140	End Purge:		2/ 15 /2021 @		Gallons Purged:	•
Purge water of	disposed to:		55-gal Drum	Ш	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
	. ,		. 0 /	ters for three	. ,	lings within the fo	. ,	>/= 1 flow	0.000
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
	-						-	· <del></del>	
-									
		Ī	JIIDI	IC $\Delta$ T	TO F	RGW224	l <b>S</b>		
		1		ICAI	LIOI	CO W 22-	rD		
-									
SAMPLE CO	DLLECTION I	DATA							
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 Oudou)	<b>□</b>	_		-	<del></del>			
	u Oraer)	Other							
		-	sheen, etc.):	CLEAR, CC	LORLESS, NO	DDOR, NO SHEEN			
		-	, sheen, etc.):	CLEAR, CC	DLORLESS, NO (	DOR, NO SHEEN	ſ		
		-	, sheen, etc.):	CLEAR, CC	OLORLESS, NO C	DDOR, NO SHEEN  Turbidity	DTW	Ferrous iron	Comments/
Sample Desc	ription (color,	turbidity, odor						Ferrous iron (Fe II)	Comments/ Observations
Sample Desc	ription (color,	turbidity, odor	D.O.		ORP	Turbidity	DTW		
Sample Description Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	<b>рН</b> 6.03	ORP (mV)	Turbidity	DTW		
Replicate  1 2	Temp (°F/°C)  8.3  8.3	Cond. (uS/cm) 125.7	D.O. (mg/L) 0.48	pH 6.03 6.03	ORP (mV)	Turbidity	DTW		
Sample Description Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	<b>рН</b> 6.03	ORP (mV)	Turbidity	DTW		
Replicate  1 2	Temp (°F/°C)  8.3  8.3	Cond. (uS/cm) 125.7	D.O. (mg/L) 0.48	pH 6.03 6.03	ORP (mV)	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 8.3 8.3	Cond. (uS/cm) 125.7 125.5	D.O. (mg/L) 0.48 0.47	pH 6.03 6.03 6.03	ORP (mV) 1.1 1.1	Turbidity	DTW		
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3	Cond. (uS/cm) 125.7 125.7 125.5 125.3	D.O. (mg/L) 0.48 0.47 0.47 0.47	6.03 6.03 6.03 6.03 6.03	ORP (mV)  1.1  1.1  1.0  0.9  1.0	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3	Cond. (uS/cm) 125.7 125.5 125.3 125.6	D.O. (mg/L) 0.48 0.47 0.47 0.47	6.03 6.03 6.03 6.03 6.03 6.03	ORP (mV)  1.1  1.1  1.0  0.9  1.0  TYPE (Circle a	Turbidity	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8.3 8.3 8.3 8.3 7 TYPICAL A (8260) (8010	Cond. (uS/cm)  125.7  125.5  125.3  125.6  NALYSIS AI  () (8020) (N	D.O. (mg/L)  0.48  0.47  0.47  0.47  0.47  ULLOWED PERWYPH-G) (	6.03 6.03 6.03 6.03 6.03 6.03 ER BOTTLE	ORP (mV)  1.1  1.0  0.9  1.0  TYPE (Circle a) (BTEX)	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  7TYPICAL A  (8260) (8010) (8270) (PAH	Cond. (uS/cm)  125.7  125.7  125.5  125.3  125.6  NALYSIS AI  (NWTPH-	D.O. (mg/L)  0.48  0.47  0.47  0.47  0.47  LLOWED PERMYPH-G) (DD) (NWTPH	6.03 6.03 6.03 6.03 6.03 6.03 ER BOTTLE NWTPH-GX	ORP (mV)  1.1  1.0  0.9  1.0  TYPE (Circle a) (BTEX)  HCID) (8081)	Turbidity (NTU)	DTW (ft)  non-standard a	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  (TYPICAL A (8260) (8010 (8270) (PAF (PH) (Condu	Cond. (uS/cm) 125.7 125.7 125.5 125.3 125.6 NALYSIS AI 0) (8020) (N H) (NWTPH- uctivity) (TD:	D.O. (mg/L)  0.48  0.47  0.47  0.47  0.47  0.47  0.47  0.47  0.47  CLOWED PERMYPH-G) (MOTPH-G) (	6.03 6.03 6.03 6.03 6.03 6.03 CR BOTTLE NWTPH-Gx I-Dx) (TPH-GOD) (Turbi	ORP (mV)  1.1  1.0  0.9  1.0  TYPE (Circle a) (BTEX)  HCID) (8081)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre (HCO3/CO3) (0	DTW (ft)  non-standard a	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  (8260) (8010 (8270) (PAF (pH) (Conduction (COD) (TOO)	Cond. (uS/cm) 125.7 125.7 125.5 125.3 125.6 NALYSIS AI 0) (8020) (N H) (NWTPH- uctivity) (TD:	D.O. (mg/L)  0.48  0.47  0.47  0.47  0.47  LLOWED PERWITPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie	pH  6.03  6.03  6.03  6.03  6.03  CR BOTTLE  NWTPH-Gx  I-Dx) (TPH-  GOD) (Turbic dahl Nitroger	ORP (mV)  1.1  1.0  0.9  1.0  TYPE (Circle a) (BTEX)  HCID) (8081) (dity) (Alkalinity	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre (HCO3/CO3) (0	DTW (ft)  non-standard a	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8.3 8.3 8.3 8.3 8.3 7 TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOO (Total Cyanic	Cond. (uS/cm)  125.7  125.7  125.5  125.6  NALYSIS AI (D) (8020) (N H) (NWTPH- lectivity) (TD) (C) (Total PO-	D.O. (mg/L)  0.48  0.47  0.47  0.47  0.47  LLOWED PERIMTPH-G) (D) (NWTPH-S) (TSS) (B) (Total Kievanide) (Freevanide) (Freevanide)	pH  6.03  6.03  6.03  6.03  6.03  CR BOTTLE  NWTPH-GX  I-DX) (TPH-GOD) (Turbic dahl Nitroger  Cyanide)	ORP (mV)  1.1  1.0  0.9  1.0  TYPE (Circle a) (BTEX)  HCID) (8081) (dity) (Alkalinity a) (NH3) (NO3)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre (HCO3/CO3) (O/NO2)	DTW (ft)  non-standard a 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 □
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  8.3  (8260) (8010 (8270) (PAF (PH) (Conduction (COD) (Total Cyanical (Cotal Metals)	Cond. (uS/cm)  125.7  125.5  125.6  NALYSIS AI  () (8020) (NI  H) (NWTPH-  detivity) (TD:  (C) (Total PO-  de) (WAD Cy  ) (As) (Sb) (	D.O. (mg/L)  0.48  0.47  0.47  0.47  0.47  CLOWED PERIOR (MTPH-G) (MTPH-G) (MTPH-G) (MTPH-G) (MTPH-G) (MTPH-G) (MTG) (MT	pH  6.03  6.03  6.03  6.03  6.03  6.03  ER BOTTLE NWTPH-GX  I-Dx) (TPH-GOD) (Turbicked Nitrogen Cyanide)  1) (Cd) (Co)	ORP (mV)  1.1  1.0  0.9  1.0  TYPE (Circle a) (BTEX)  HCID) (8081) (dity) (Alkalinity in) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR □  OR □
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  8.3  (TYPICAL A (8260) (8010 (8270) (PAF (PH) (Conduction (COD) (TOG (Total Cyanical (Cod) (Total Metals (Dissolved M	Cond. (uS/cm)  125.7  125.7  125.5  125.6  NALYSIS AI  (NWTPHactivity) (TD: (Total PO-	D.O. (mg/L)  0.48  0.47  0.47  0.47  0.47  CLOWED PERIOR (MTPH-G) (MTPH-G) (MTPH-G) (MTPH-G) (MTPH-G) (MTPH-G) (MTG) (MT	pH  6.03  6.03  6.03  6.03  6.03  6.03  ER BOTTLE NWTPH-GX  I-Dx) (TPH-GOD) (Turbicked Nitrogen Cyanide)  1) (Cd) (Co)	ORP (mV)  1.1  1.0  0.9  1.0  TYPE (Circle a) (BTEX)  HCID) (8081) (dity) (Alkalinity in) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  (TYPICAL A (8260) (8010 (8270) (PAF (PH) (Conduction (COD) (Total Cyanical (Cod) (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  125.7  125.7  125.5  125.6  NALYSIS AI  (NWTPHactivity) (TD: (C) (Total POde) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.48  0.47  0.47  0.47  0.47  0.47  0.47  CLOWED PERMYPH-G) (MYTPH-G) (MY	pH  6.03  6.03  6.03  6.03  6.03  6.03  ER BOTTLE NWTPH-GX  I-Dx) (TPH-GOD) (Turbicked Nitrogen Cyanide)  1) (Cd) (Co)	ORP (mV)  1.1  1.0  0.9  1.0  TYPE (Circle a) (BTEX)  HCID) (8081) (dity) (Alkalinity in) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  (TYPICAL A (8260) (8010 (8270) (PAF (PH) (Conduction (COD) (Total Cyanical (Cod) (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  125.7  125.7  125.5  125.6  NALYSIS AI  (NWTPHactivity) (TD: (Total PO-	D.O. (mg/L)  0.48  0.47  0.47  0.47  0.47  0.47  0.47  CLOWED PERMYPH-G) (MYTPH-G) (MY	pH  6.03  6.03  6.03  6.03  6.03  6.03  ER BOTTLE NWTPH-GX  I-Dx) (TPH-GOD) (Turbicked Nitrogen Cyanide)  1) (Cd) (Co)	ORP (mV)  1.1  1.0  0.9  1.0  TYPE (Circle a) (BTEX)  HCID) (8081) (dity) (Alkalinity in) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  (TYPICAL A (8260) (8010 (8270) (PAF (PH) (Conduction (COD) (Total Cyanical (Cod) (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  125.7  125.7  125.5  125.6  NALYSIS AI  (NWTPHactivity) (TD: (C) (Total POde) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.48  0.47  0.47  0.47  0.47  0.47  0.47  CLOWED PERMYPH-G) (MYTPH-G) (MY	pH  6.03  6.03  6.03  6.03  6.03  6.03  ER BOTTLE NWTPH-GX  I-Dx) (TPH-GOD) (Turbicked Nitrogen Cyanide)  1) (Cd) (Co)	ORP (mV)  1.1  1.0  0.9  1.0  TYPE (Circle a) (BTEX)  HCID) (8081) (dity) (Alkalinity in) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  8.3  TYPICAL A  (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanica (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  125.7  125.7  125.5  125.6  NALYSIS AI  (NWTPHactivity) (TD: (C) (Total POde) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.48  0.47  0.47  0.47  0.47  0.47  0.47  CLOWED PERMYPH-G) (MYTPH-G) (MY	pH  6.03  6.03  6.03  6.03  6.03  6.03  ER BOTTLE NWTPH-GX  I-Dx) (TPH-GOD) (Turbicked Nitrogen Cyanide)  1) (Cd) (Co)	ORP (mV)  1.1  1.0  0.9  1.0  TYPE (Circle a) (BTEX)  HCID) (8081) (dity) (Alkalinity in) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  (TYPICAL A (8260) (8010 (8270) (PAF (PH) (Conduction (COD) (Total Cyanical (Cod) (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  125.7  125.7  125.5  125.6  NALYSIS AI  (NWTPHactivity) (TD: (C) (Total POde) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.48  0.47  0.47  0.47  0.47  0.47  0.47  CLOWED PERMYPH-G) (MYTPH-G) (MY	pH  6.03  6.03  6.03  6.03  6.03  6.03  ER BOTTLE NWTPH-GX  I-Dx) (TPH-GOD) (Turbicked Nitrogen Cyanide)  1) (Cd) (Co)	ORP (mV)  1.1  1.0  0.9  1.0  TYPE (Circle a) (BTEX)  HCID) (8081) (dity) (Alkalinity in) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.3  8.3  8.3  8.3  8.3  (TYPICAL A (8260) (8010 (8270) (PAF (PH) (Condu (Total Cyanica (Total Metals (Dissolved M VOC (Boein Methane Eth others)	Cond. (uS/cm)  125.7  125.7  125.5  125.6  NALYSIS AI  (NWTPHactivity) (TD: (C) (Total POde) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.48  0.47  0.47  0.47  0.47  CLOWED PE  WYPH-G) ( D) (NWTPH  S) (TSS) (B  4) (Total Kie  vanide) (Free  Ba) (Be) (Ca  b) (Ba) (Be) (Co  cetylene	pH  6.03  6.03  6.03  6.03  6.03  6.03  ER BOTTLE NWTPH-GX  I-Dx) (TPH-GOD) (Turbicked Nitrogen Cyanide)  1) (Cd) (Co)	ORP (mV)  1.1  1.0  0.9  1.0  TYPE (Circle a) (BTEX)  HCID) (8081) (dity) (Alkalinity in) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY	Temp (°F/°C)  8.3  8.3  8.3  8.3  8.3  (TYPICAL A (8260) (8010 (8270) (PAF (PH) (Condu (Total Cyanica (Total Metals (Dissolved M VOC (Boein Methane Eth others)	Cond. (uS/cm)  125.7  125.7  125.5  125.6  NALYSIS AI  (WAD Cy ) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb) (anne Ethene Acceptage)	D.O. (mg/L)  0.48  0.47  0.47  0.47  0.47  CLOWED PE  WYPH-G) ( D) (NWTPH  S) (TSS) (B  4) (Total Kie  vanide) (Free  Ba) (Be) (Ca  b) (Ba) (Be) (Co  cetylene	pH  6.03  6.03  6.03  6.03  6.03  6.03  ER BOTTLE NWTPH-GX  I-Dx) (TPH-GOD) (Turbicked Nitrogen Cyanide)  1) (Cd) (Co)	ORP (mV)  1.1  1.0  0.9  1.0  TYPE (Circle a) (BTEX)  HCID) (8081) (dity) (Alkalinity in) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY  2  Duplicate San	Temp (°F/°C)  8.3  8.3  8.3  8.3  8.3  (TYPICAL A (8260) (8010 (8270) (PAF (PH) (Condu (Total Cyanica (Total Metals (Dissolved M VOC (Boein Methane Eth others)	Cond. (uS/cm)  125.7  125.7  125.5  125.6  NALYSIS AI  (WAD Cy ) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb) (anne Ethene Acceptage)	D.O. (mg/L)  0.48  0.47  0.47  0.47  0.47  CLOWED PE  WYPH-G) ( D) (NWTPH  S) (TSS) (B  4) (Total Kie  vanide) (Free  Ba) (Be) (Ca  b) (Ba) (Be) (Co  cetylene	pH  6.03  6.03  6.03  6.03  6.03  6.03  ER BOTTLE NWTPH-GX  I-Dx) (TPH-GOD) (Turbicked Nitrogen Cyanide)  1) (Cd) (Co)	ORP (mV)  1.1  1.0  0.9  1.0  TYPE (Circle a) (BTEX)  HCID) (8081) (dity) (Alkalinity in) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write (8141) (Oil & Gre ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Nam	e <u>:</u>	Boeing Ren	iton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2021		_	Date/Time:	2/15/2021@	1057		
Sample Num	nber:	RGW226S-	210215		Weather:	RAINY SNOW	ON GROUND	)	
Landau Repr	resentative:	AHA			•				
WATER LEV	EL/WELL/PI	IRGE DATA							
Well Condition		Secure (YES	5)	Damaged (N	(O)	Describe:	FLUSHMOUN	JТ	
DTW Before	Purging (ft)	8.12	Time:	- '	Flow through ce		-	GW Meter No.(s	s 10
Begin Purge:	0 0 0			End Purge:	_	2/ 15/2021 @	1056	Gallons Purged:	0.25
Purge water d			55-gal Drum	Ĕ	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
	, ,	. ,	` 0 /	ters for three	· /	lings within the fo	` '	>/= 1 flow	Observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1035	11.9	268.1	0.63	6.69	-96.8		8.19		
1038	12.2	262.3	0.53	6.68	-98.9		8.19		
1041	12.8	248.6	0.51	6.66	-102.7		8.19	-	
1044	13.1	240.1	0.47	6.63	-103.8				
							-	-	
1047	13.1	237.1	0.45	6.61	-103.6				
1050	13.1	229.6	0.45	6.59	-102.6				
1052	13.1	228.7	0.44	6.58	-101.7				
SAMPLE CO	LLECTION D								
Sample Collec	cted With:		Bailer	_	_ ` ` ` ` `	DED. BLADDER		·	
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	1 Oudou)	C+1							
		Other	-						
		—	r, sheen, etc.):	YELLOWIS	H, LOW TURB,	NO ODOR, NO SI	IEEN		
Sample Descr	ription (color,	turbidity, odor						Ferrous iron	Comments/
		—	D.O. (mg/L)	YELLOWIS	H, LOW TURB,  ORP  (mV)	NO ODOR, NO SE  Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	iption (color, t	turbidity, odor	D.O.		ORP	Turbidity	DTW		
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	<b>рН</b> 6.57	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate  1 2	Temp (°F/°C) 12.9	Cond. (uS/cm)  227.1  226.3	D.O. (mg/L) 0.45	<b>pH</b> 6.57 6.57	ORP (mV) -101.1 -100.8	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 12.9 12.8 12.7	Cond. (uS/cm)  227.1  226.3  225.8	D.O. (mg/L) 0.45 0.45	6.57 6.57 6.56	ORP (mV) -101.1 -100.8 -100.5	Turbidity	DTW		
Sample Descr Replicate  1 2	Temp (°F/°C) 12.9	Cond. (uS/cm)  227.1  226.3	D.O. (mg/L) 0.45	<b>pH</b> 6.57 6.57	ORP (mV) -101.1 -100.8	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 12.9 12.8 12.7	Cond. (uS/cm)  227.1  226.3  225.8	D.O. (mg/L) 0.45 0.45	6.57 6.57 6.56	ORP (mV) -101.1 -100.8 -100.5	Turbidity	DTW		
Replicate  1 2 3 4 Average:	Temp (°F/°C) 12.9 12.8 12.7 12.7	Cond. (uS/cm)  227.1  226.3  225.8  225.3  226.1	D.O. (mg/L) 0.45 0.45 0.45 0.46	6.57 6.57 6.56 6.56 6.57	ORP (mV) -101.1 -100.8 -100.5 -100.1 -100.6	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 12.9 12.8 12.7 12.7 12.8	Cond. (uS/cm)  227.1  226.3  225.8  225.3  226.1	D.O. (mg/L)  0.45  0.45  0.45  0.46  0.45	pH  6.57  6.57  6.56  6.56  6.57  ER BOTTLE	ORP (mV) -101.1 -100.8 -100.5 -100.1 -100.6  TYPE (Circle a)	Turbidity (NTU)  #DIV/0!	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 12.9 12.8 12.7 12.7 12.8 TYPICAL A (8260-SIM)	Cond. (uS/cm)  227.1  226.3  225.8  225.3  226.1  NALYSIS AI (8010) (8020)	D.O. (mg/L)  0.45  0.45  0.45  0.46  0.45  LLOWED PE  0) (NWTPH-	6.57 6.57 6.56 6.56 6.57 ER BOTTLE	ORP (mV) -101.1 -100.8 -100.5 -100.1 -100.6 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) 12.9 12.8 12.7 12.7 12.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm)  227.1  226.3  225.8  225.3  226.1  NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD:	D.O. (mg/L)  0.45  0.45  0.46  0.45  LLOWED PE  0) (NWTPH-H-D) (NWTFH-S) (TSS) (E	6.57 6.56 6.56 6.57 ER BOTTLE G) (NWTPF PH-Dx) (TPF BOD) (Turbic	ORP (mV)  -101.1  -100.8  -100.5  -100.1  -100.6  TYPE (Circle a)  H-Gx) (BTEX)  H-HCID) (8081)  dity) (Alkalinity	#DIV/0! pplicable or write  (8141) (Oil & G	DTW (ft)  non-standard a	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  12.9  12.8  12.7  12.8  TYPICAL A (8260-SIM) (8270D) (PA(pH) (Conduction) (TOO	Cond. (uS/cm)  227.1  226.3  225.8  225.3  226.1  NALYSIS AI (8010) (8020  AH) (NWTPI (NWTPI)	D.O. (mg/L)  0.45  0.45  0.46  0.46  0.45  LLOWED PF  0.0) (NWTPH-H-D) (NWTPH-H-D) (NWTF	6.57 6.56 6.56 6.56 6.57 CR BOTTLE G) (NWTPF PH-Dx) (TPF BOD) (Turbio tal Kiedahl N	ORP (mV)  -101.1  -100.8  -100.5  -100.1  -100.6  TYPE (Circle a)  H-Gx) (BTEX)  H-HCID) (8081)	#DIV/0! pplicable or write  (8141) (Oil & G	DTW (ft)  non-standard a	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 12.9 12.8 12.7 12.7 12.8 TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Too	Cond. (uS/cm)  227.1  226.3  225.8  225.8  226.1  NALYSIS AI (8010) (8020 AH) (NWTPH (NWTPH (NETVITY)) (TD)  (C5310C) (To (WAD Cy)	D.O. (mg/L)  0.45  0.45  0.46  0.46  0.45  LLOWED PP  0) (NWTPH-H-D) (NWTPH-H-	6.57 6.56 6.56 6.57 ER BOTTLE G) (NWTPP PH-Dx) (TPP BOD) (Turbio ttal Kiedahl N C Cyanide)	ORP (mV)  -101.1  -100.8  -100.5  -100.1  -100.6  TYPE (Circle a)  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 a  rease) CI) (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
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  12.9  12.8  12.7  12.8  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction (COD) (Total Cyanida (Total Metals)	Cond. (uS/cm)  227.1  226.3  225.8  225.8  226.1  NALYSIS AI (8010) (8020 AH) (NWTPH lectivity) (TD: C5310C) (To le) (WAD Cy ) (As) (Sb) (	D.O. (mg/L)  0.45  0.45  0.46  0.45  LLOWED PF  0.10 (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Toward) (Toward) (Toward) (Free Ba) (Be) (Ca)	6.57 6.56 6.56 6.57 ER BOTTLE G) (NWTPI PH-Dx) (TPI BOD) (Turbi otal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  -101.1  -100.8  -100.5  -100.1  -100.6  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  12.9  12.8  12.7  12.8  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction (COD) (Total Cyanid (Total Metals))	Cond. (uS/cm)  227.1  226.3  225.8  225.8  226.1  NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: (25310C) (To (be) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (	D.O. (mg/L)  0.45  0.45  0.46  0.45  LLOWED PF  0.10 (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Toward) (Toward) (Toward) (Free Ba) (Be) (Ca)	6.57 6.56 6.56 6.57 ER BOTTLE G) (NWTPI PH-Dx) (TPI BOD) (Turbi otal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  -101.1  -100.8  -100.5  -100.1  -100.6  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  12.9  12.8  12.7  12.7  12.8  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  227.1  226.3  225.8  225.8  226.1  NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: (25310C) (To (be) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (	D.O. (mg/L)  0.45  0.45  0.46  0.45  0.46  0.45  CLLOWED PE  O) (NWTPH-H-D) (N	6.57 6.56 6.56 6.57 ER BOTTLE G) (NWTPI PH-Dx) (TPI BOD) (Turbi otal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  -101.1  -100.8  -100.5  -100.1  -100.6  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  12.9  12.8  12.7  12.7  12.8  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  227.1  226.3  225.8  225.3  226.1  NALYSIS AI (8010) (8020 AH) (NWTPH (activity) (TD) (25310C) (To (be) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.45  0.45  0.46  0.45  0.46  0.45  CLLOWED PE  O) (NWTPH-H-D) (N	6.57 6.56 6.56 6.57 ER BOTTLE G) (NWTPI PH-Dx) (TPI BOD) (Turbi otal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  -101.1  -100.8  -100.5  -100.1  -100.6  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  12.9  12.8  12.7  12.7  12.8  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  227.1  226.3  225.8  225.3  226.1  NALYSIS AI (8010) (8020 AH) (NWTPH (activity) (TD) (25310C) (To (be) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.45  0.45  0.46  0.45  0.46  0.45  CLLOWED PE  O) (NWTPH-H-D) (N	6.57 6.56 6.56 6.57 ER BOTTLE G) (NWTPI PH-Dx) (TPI BOD) (Turbi otal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  -101.1  -100.8  -100.5  -100.1  -100.6  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  12.9  12.8  12.7  12.7  12.8  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  227.1  226.3  225.8  225.3  226.1  NALYSIS AI (8010) (8020 AH) (NWTPH (activity) (TD) (25310C) (To (be) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.45  0.45  0.46  0.45  0.46  0.45  CLLOWED PE  O) (NWTPH-H-D) (N	6.57 6.56 6.56 6.57 ER BOTTLE G) (NWTPI PH-Dx) (TPI BOD) (Turbi otal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  -101.1  -100.8  -100.5  -100.1  -100.6  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  12.9  12.8  12.7  12.8  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  227.1  226.3  225.8  225.3  226.1  NALYSIS AI (8010) (8020 AH) (NWTPH (activity) (TD) (25310C) (To (be) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.45  0.45  0.46  0.45  0.46  0.45  CLLOWED PE  O) (NWTPH-H-D) (N	6.57 6.56 6.56 6.57 ER BOTTLE G) (NWTPI PH-Dx) (TPI BOD) (Turbi otal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  -101.1  -100.8  -100.5  -100.1  -100.6  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	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)  12.9  12.8  12.7  12.8  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  227.1  226.3  225.8  225.3  226.1  NALYSIS AI (8010) (8020 AH) (NWTPH (activity) (TD) (25310C) (To (be) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.45  0.45  0.46  0.45  0.46  0.45  CLLOWED PE  O) (NWTPH-H-D) (N	6.57 6.56 6.56 6.57 ER BOTTLE G) (NWTPI PH-Dx) (TPI BOD) (Turbi otal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  -101.1  -100.8  -100.5  -100.1  -100.6  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  12.9  12.8  12.7  12.8  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  227.1  226.3  225.8  225.3  226.1  NALYSIS AI (8010) (8020 AH) (NWTPH (activity) (TD) (25310C) (To (be) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.45  0.45  0.46  0.45  0.46  0.45  CLLOWED PE  O) (NWTPH-H-D) (N	6.57 6.56 6.56 6.57 ER BOTTLE G) (NWTPI PH-Dx) (TPI BOD) (Turbi otal Kiedahl N Cyanide) a) (Cd) (Co)	ORP (mV)  -101.1  -100.8  -100.5  -100.1  -100.6  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Name	e:	Boeing Ren	nton		Project Number	r:	0025217.099.0	99	
Event:		Feb. 2021			Date/Time:	2/ 15 /2021@	1355		
Sample Num	nber:	RGW230I-	210215		Weather:	COLD, OVERC	AST, SNOW (	ON GROUND	
Landau Repr	resentative:	BXM			- -				
WATER LEV	EL/WELL/PI	IRGE DATA							
Well Conditio		Secure (YES		Damaged (N	(O)	Describe:	FLUSH		
DTW Before l	Purging (ft)	5.99	Time:	•	Flow through cel		-	GW Meter No.(s	SLOPE 8
Begin Purge:	0 0 0			End Purge:	_	2/ 15 /2021 @	1354	Gallons Purged:	
Purge water d			55-gal Drum	_	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
	, ,	. ,		ters for three	` ′	lings within the fo	` '	>/= 1 flow	observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1335	9.3	252.3	0.47	6.18	19.9		5.99		
1338	9.1	250.3	0.46	6.18	17.5		5.99		
1341	8.3	238.4	0.48	6.2	11.9		5.99		
1344	7.9	232.8	0.51	6.21	8.1				
					4.5		-		
1347	7.7	227.1	0.54	6.22					
1350	7.6	223.8	0.53	6.23	1.7				
1353	7.6	220.4	0.57	6.25	-0.9				
SAMPLE CO	LLECTION D								
Sample Collec	cted With:		Bailer	_		DED BLADDER		_	
Made of:		Stainless Ste	el	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica)									
		Other							
		-	r, sheen, etc.):	CLEAR, CO	LORLESS, LIGH	IT FINES, NO OD	OR, NO SHEEN	[	
Sample Descri	ription (color,	turbidity, odo	<del>-</del>						Comments/
		-	D.O. (mg/L)	CLEAR, CO	ORP (mV)	Turbidity (NTU)	OR, NO SHEEN  DTW  (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	iption (color, t	turbidity, odor	D.O.		ORP	Turbidity	DTW	Ferrous iron	
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	<b>рН</b> 6.25	ORP (mV)	Turbidity	DTW	Ferrous iron	
Sample Description Replicate	Temp (°F/°C) 7.6	Cond. (uS/cm)  220.2	D.O. (mg/L) 0.58	<b>рН</b> 6.25 6.25	ORP (mV) -1.3	Turbidity	DTW	Ferrous iron	
Replicate  1 2 3	Temp (°F/°C) 7.6 7.6	Cond. (uS/cm)  220.2  220.1	D.O. (mg/L) 0.58 0.57	pH  6.25  6.25  6.25	ORP (mV) -1.3 -1.5	Turbidity	DTW	Ferrous iron	
Sample Description Replicate	Temp (°F/°C) 7.6	Cond. (uS/cm)  220.2  220.1  220.1	D.O. (mg/L) 0.58	<b>рН</b> 6.25 6.25	ORP (mV) -1.3	Turbidity	DTW	Ferrous iron	
Replicate  1 2 3	Temp (°F/°C) 7.6 7.6	Cond. (uS/cm)  220.2  220.1	D.O. (mg/L) 0.58 0.57	pH  6.25  6.25  6.25	ORP (mV) -1.3 -1.5	Turbidity	DTW	Ferrous iron	
Replicate  1 2 3 4 Average:	Temp (°F/°C)  7.6  7.6  7.6  7.6  7.6	Cond. (uS/cm)  220.2  220.1  220.1  220.2	D.O. (mg/L) 0.58 0.57 0.57 0.59	6.25 6.25 6.25 6.25 6.25	ORP (mV)  -1.3  -1.5  -1.6  -1.7  -1.5	Turbidity	DTW (ft)	Ferrous iron (Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 7.6 7.6 7.6 7.6 7.6	Cond. (uS/cm)  220.2  220.1  220.1  220.2  NALYSIS Al	D.O. (mg/L) 0.58 0.57 0.57 0.59	6.25 6.25 6.25 6.25 6.25 6.25	ORP (mV)  -1.3  -1.5  -1.6  -1.7  -1.5  TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 7.6 7.6 7.6 7.6 7.6 7.6 7.8	Cond. (uS/cm)  220.2  220.1  220.1  220.2  NALYSIS AI  VC) (8010)	D.O. (mg/L) 0.58 0.57 0.57 0.59 0.58 LLOWED PE	6.25 6.25 6.25 6.25 6.25 FR BOTTLE TPH-G) (N	ORP (mV)  -1.3  -1.5  -1.6  -1.7  -1.5  TYPE (Circle ap WTPH-Gx) (BT	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C)  7.6  7.6  7.6  7.6  7.6  7.6  7.6  7.	Cond. (uS/cm)  220.2  220.1  220.1  220.2  NALYSIS AI  VC) (8010)  I) (NWTPH- inctivity) (TD	D.O. (mg/L)  0.58  0.57  0.59  0.58  LLOWED PE (8020) (NW D) (NWTPH S) (TSS) (B	6.25 6.25 6.25 6.25 6.25 CR BOTTLE TPH-G) (NV I-Dx) (TPH-GOD) (Turbic	ORP (mV)  -1.3  -1.5  -1.6  -1.7  -1.5  TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity)	Turbidity (NTU)  pplicable or write (EX) (8141) (Oil & Gree) (HCO3/CO3) (0	DTW (ft)  non-standard a	Ferrous iron (Fe II)  malysis below)  WA  WA  WA	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C)  7.6  7.6  7.6  7.6  7.6  7.6  7.6  7.	Cond. (uS/cm)  220.2  220.1  220.1  220.2  NALYSIS AI  VC) (8010)  I) (NWTPH- loctivity) (TD  C SM5310C)	D.O. (mg/L)  0.58  0.57  0.59  0.58  LLOWED PE (8020) (NW-D) (NWTPH S) (TSS) (B (Total PO4)	6.25 6.25 6.25 6.25 6.25 6.25 TPH-G) (NY 1-Dx) (TPH-GOD) (Turbic (Total Kieda	ORP (mV)  -1.3  -1.5  -1.6  -1.7  -1.5  TYPE (Circle ap WTPH-Gx) (BT HCID) (8081)	Turbidity (NTU)  pplicable or write (EX) (8141) (Oil & Gree) (HCO3/CO3) (0	DTW (ft)  non-standard a	Ferrous iron (Fe II)  malysis below)  WA  WA  WA	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C)  7.6  7.6  7.6  7.6  7.6  7.6  7.6  7.	Cond. (uS/cm)  220.2  220.1  220.1  220.2  NALYSIS AI  VC) (8010)  H) (NWTPH- lictivity) (TD  C SM5310C)  le) (WAD Cy	D.O. (mg/L)  0.58  0.57  0.59  0.58  LLOWED PE (8020) (NW-D) (NWTPH S) (TSS) (B (Total PO4) vanide) (Free	6.25 6.25 6.25 6.25 6.25 ER BOTTLE TPH-G) (N' I-Dx) (TPH-GOD) (Turbic COD) (Turbic COD) (Turbic COD) (Turbic	ORP (mV)  -1.3  -1.5  -1.6  -1.7  -1.5  TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) hl Nitrogen) (NF	Turbidity (NTU)  oplicable or write (EX)  (8141) (Oil & Green (HCO3/CO3) (Mathematical (NO3/NO2))	DTW (ft)  non-standard a  ase) C1) (SO4) (NO	Ferrous iron (Fe II)  malysis below)  WA  WA  ON WA  ON WA  ON WA  ON WA  ON WA  ON WA	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  7.6  7.6  7.6  7.6  7.6  7.6  7.6  (8260C SIM V (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  220.2  220.1  220.1  220.2  NALYSIS AI  VC) (8010)  (1) (NWTPH- lectivity) (TD C SM5310C)  (e) (WAD Cy () (As) (Sb) (	D.O. (mg/L)  0.58  0.57  0.59  0.58  LLOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) (vanide) (Free (Ba) (Be) (Ca	6.25 6.25 6.25 6.25 6.25 CR BOTTLE TPH-G) (NV 1-Dx) (TPH-GOD) (Turbic (Total Kieda	ORP (mV)  -1.3  -1.5  -1.6  -1.7  -1.5  TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) hl Nitrogen) (NHCIC) (Cr) (Cu) (Fe) (Cr) (Cu) (Fe)	Turbidity (NTU)  Oplicable or write (EX)  (8141) (Oil & Gree) (HCO3/CO3) (Oil (MO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a ase) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  OR ON	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  7.6  7.6  7.6  7.6  7.6  7.6  TYPICAL A (8260C SIM V (8270) (PAH (pH) (Conduction (COD) (TOG) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm)  220.2  220.1  220.1  220.2  NALYSIS AI (VC) (8010)  (I) (NWTPH- (uctivity) (TD (C SM5310C) (De) (WAD C) () (As) (Sb) ((etals) (As) (Sl)	D.O. (mg/L)  0.58  0.57  0.59  0.58  LLOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) (vanide) (Free (Ba) (Be) (Ca	6.25 6.25 6.25 6.25 6.25 CR BOTTLE TPH-G) (NV 1-Dx) (TPH-GOD) (Turbic (Total Kieda	ORP (mV)  -1.3  -1.5  -1.6  -1.7  -1.5  TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) hl Nitrogen) (NHCIC) (Cr) (Cu) (Fe) (Cr) (Cu) (Fe)	Turbidity (NTU)  Oplicable or write (EX)  (8141) (Oil & Gree) (HCO3/CO3) (Oil (MO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a ase) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  OR ON	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  7.6  7.6  7.6  7.6  7.6  7.6  TYPICAL A (8260C SIM V (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  220.2  220.1  220.1  220.2  NALYSIS AI (VC) (8010)  (I) (NWTPH- (uctivity) (TD (C SM5310C) (De) (WAD C) () (As) (Sb) ((etals) (As) (Sl)	D.O. (mg/L)  0.58  0.57  0.59  0.58  LLOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) yanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.25 6.25 6.25 6.25 6.25 CR BOTTLE TPH-G) (NV 1-Dx) (TPH-GOD) (Turbic (Total Kieda	ORP (mV)  -1.3  -1.5  -1.6  -1.7  -1.5  TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) hl Nitrogen) (NHCIC) (Cr) (Cu) (Fe) (Cr) (Cu) (Fe)	Turbidity (NTU)  Oplicable or write (EX)  (8141) (Oil & Gree) (HCO3/CO3) (Oil (MO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a ase) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  OR ON	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  7.6  7.6  7.6  7.6  7.6  7.6  TYPICAL A (8260C SIM V (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  220.2  220.1  220.1  220.2  NALYSIS AI  VC) (8010)  H) (NWTPH-  citivity) (TD  C SM5310C)  le) (WAD Cy ) (As) (Sb) (etals) (As) (Sl) g short list)	D.O. (mg/L)  0.58  0.57  0.59  0.58  LLOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) yanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.25 6.25 6.25 6.25 6.25 CR BOTTLE TPH-G) (NV 1-Dx) (TPH-GOD) (Turbic (Total Kieda	ORP (mV)  -1.3  -1.5  -1.6  -1.7  -1.5  TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) hl Nitrogen) (NHCIC) (Cr) (Cu) (Fe) (Cr) (Cu) (Fe)	Turbidity (NTU)  Oplicable or write (EX)  (8141) (Oil & Gree) (HCO3/CO3) (Oil (MO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a ase) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  OR ON	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  7.6  7.6  7.6  7.6  7.6  7.6  TYPICAL A (8260C SIM V (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  220.2  220.1  220.1  220.2  NALYSIS AI  VC) (8010)  H) (NWTPH-  citivity) (TD  C SM5310C)  le) (WAD Cy ) (As) (Sb) (etals) (As) (Sl) g short list)	D.O. (mg/L)  0.58  0.57  0.59  0.58  LLOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) yanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.25 6.25 6.25 6.25 6.25 CR BOTTLE TPH-G) (NV 1-Dx) (TPH-GOD) (Turbic (Total Kieda	ORP (mV)  -1.3  -1.5  -1.6  -1.7  -1.5  TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) hl Nitrogen) (NHCIC) (Cr) (Cu) (Fe) (Cr) (Cu) (Fe)	Turbidity (NTU)  Oplicable or write (EX)  (8141) (Oil & Gree) (HCO3/CO3) (Oil (MO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a ase) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  OR ON	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.6  7.6  7.6  7.6  7.6  7.6  TYPICAL A (8260C SIM V (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  220.2  220.1  220.1  220.2  NALYSIS AI  VC) (8010)  H) (NWTPH-  citivity) (TD  C SM5310C)  le) (WAD Cy ) (As) (Sb) (etals) (As) (Sl) g short list)	D.O. (mg/L)  0.58  0.57  0.59  0.58  LLOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) yanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.25 6.25 6.25 6.25 6.25 CR BOTTLE TPH-G) (NV 1-Dx) (TPH-GOD) (Turbic (Total Kieda	ORP (mV)  -1.3  -1.5  -1.6  -1.7  -1.5  TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) hl Nitrogen) (NHCIC) (Cr) (Cu) (Fe) (Cr) (Cu) (Fe)	Turbidity (NTU)  Oplicable or write (EX)  (8141) (Oil & Gree) (HCO3/CO3) (Oil (MO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a ase) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  OR ON	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.6  7.6  7.6  7.6  7.6  7.6  TYPICAL A (8260C SIM V (8270) (PAH (pH) (Condu (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  220.2  220.1  220.1  220.2  NALYSIS AI  VC) (8010)  H) (NWTPH-  citivity) (TD  C SM5310C)  le) (WAD Cy ) (As) (Sb) (etals) (As) (Sl) g short list)	D.O. (mg/L)  0.58  0.57  0.59  0.58  LLOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) yanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.25 6.25 6.25 6.25 6.25 CR BOTTLE TPH-G) (NV 1-Dx) (TPH-GOD) (Turbic (Total Kieda	ORP (mV)  -1.3  -1.5  -1.6  -1.7  -1.5  TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) hl Nitrogen) (NHCIC) (Cr) (Cu) (Fe) (Cr) (Cu) (Fe)	Turbidity (NTU)  Oplicable or write (EX)  (8141) (Oil & Gree) (HCO3/CO3) (Oil (MO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a ase) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  OR ON	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3  Duplicate Sam	Temp (°F/°C)  7.6  7.6  7.6  7.6  7.6  7.6  TYPICAL A (8260C SIM V (8270) (PAH (pH) (Condu (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  220.2  220.1  220.1  220.2  NALYSIS AI  VC) (8010)  H) (NWTPH-  citivity) (TD  C SM5310C)  le) (WAD Cy ) (As) (Sb) (etals) (As) (Sl) g short list)	D.O. (mg/L)  0.58  0.57  0.59  0.58  LLOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) yanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.25 6.25 6.25 6.25 6.25 CR BOTTLE TPH-G) (NV 1-Dx) (TPH-GOD) (Turbic (Total Kieda	ORP (mV)  -1.3  -1.5  -1.6  -1.7  -1.5  TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) hl Nitrogen) (NHCIC) (Cr) (Cu) (Fe) (Cr) (Cu) (Fe)	Turbidity (NTU)  Oplicable or write (EX)  (8141) (Oil & Gree) (HCO3/CO3) (Oil (MO3/NO2)  (Pb) (Mg) (Mn) (	non-standard a ase) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  OR ON	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  7.6  7.6  7.6  7.6  7.6  7.6  TYPICAL A (8260C SIM V (8270) (PAH (pH) (Condu (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  220.2  220.1  220.1  220.2  NALYSIS AI  VC) (8010)  H) (NWTPH-  citivity) (TD  C SM5310C)  le) (WAD Cy ) (As) (Sb) (etals) (As) (Sl) g short list)	D.O. (mg/L)  0.58  0.57  0.59  0.58  LLOWED PE (8020) (NW D) (NWTPH S) (TSS) (B (Total PO4) yanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.25 6.25 6.25 6.25 6.25 CR BOTTLE TPH-G) (NV 1-Dx) (TPH-GOD) (Turbic (Total Kieda	ORP (mV)  -1.3  -1.5  -1.6  -1.7  -1.5  TYPE (Circle ap WTPH-Gx) (BT HCID) (8081) (dity) (Alkalinity) hl Nitrogen) (NHCIC) (Cr) (Cu) (Fe) (Cr) (Cu) (Fe)	Turbidity (NTU)  oplicable or write (EX)  (8141) (Oil & Gree) (HCO3/CO3) (Oil (HCO3/CO3))  (Pb) (Mg) (Mn) (Ni) (Oil (HCO3/CO3))	non-standard a ase) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  OR ON	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Nam	e:	Boeing Ren	iton		Project Number	r:	0025217.099.0	99	
Event:		Feb. 2021		_	Date/Time:	2/15/2021@	957		
Sample Num	nber:	RGW232S-	210215		Weather:	SNOW ON GRO	OUND CLOUI	ΟY	
Landau Repr	resentative:	AHA			•				
WATER LEV	/FI/W/FII/PI	IRGE DATA							
Well Condition		Secure (YES	)	Damaged (N	0)	Describe:	FLUSHMOUN	JT	
DTW Before		6.59	Time:	- '	Flow through ce		TECOMMOCI	GW Meter No.(s	s 10
Begin Purge:	0 0 0			End Purge:	_	2/ 15/2021 @	956	Gallons Purged:	0.25
Purge water d		2/ 13/2021 (0	55-gal Drum	Ě	Storage Tank	Ground	_	SITE TREATM	
i uige water u	isposed to.		55-gai Diuiii		Storage Talik	E Ground	Other	SITE TREATM	ENTSTSTEM
Time	Temp (°F/°C)	Cond.	D.O.	pН	ORP (mV)	Turbidity	DTW	Internal Purge	Comments/
Time	, ,	(uS/cm) ls: Stablizatio	(mg/L) on of Paramet	ers for three	. ,	(NTU) lings within the fo	(ft) llowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
937	10.9	401.5	0.98	7.12	-82.8		6.62		
940	9.4	381.1	1.61	6.89	-89.4		6.71		
943	8.8	364.4	1.41	6.73	-91.5		6.75		
946	8.5	351.1	1.41	6.59	-90.2				
949	8.5	346.4	1.34	6.46	-87.1				
952	8.6	344.2	1.24	6.39	-85.7				
954	8.6	342.2	1.31	6.37	-85.5				
								· <del></del>	
SAMPLE CO	LLECTION D	DATA						· <del></del>	
Sample Collec			Bailer		Pump/Pump Type	DED. BLADDER	-		
Made of:	П	Stainless Ste	el 🗍	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Wa		Tap Rinse	DI Water	Dedicated			
			311 <u> </u>	rap Kinse	□ Di Water	Dedicated			
	d Order)	Other							
	el Order) sintion (color-t	Other	sheen etc.):	NO COLOR	LOW TURB NO	O ODOR NO SHE	FN		
		_	r, sheen, etc.):	NO COLOR	, LOW TURB, N	O ODOR NO SHE	EN		
		_	D.O. (mg/L)	NO COLOR	, LOW TURB, No	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)	pН	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate  1 2	Temp (°F/°C) 8.6	Cond. (uS/cm)  341.7	D.O. (mg/L) 1.46	<b>рН</b> 6.36 6.35	ORP (mV) -85.4 -85.5	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 8.6 8.5	Cond. (uS/cm)  341.7  340.2  338.9	D.O. (mg/L) 1.46 1.26	pH  6.36  6.35  6.35	ORP (mV) -85.4 -85.5	Turbidity	DTW		
Replicate  1 2 3 4	Temp (°F/°C) 8.6 8.6 8.6	Cond. (uS/cm)  341.7  340.2  338.9	D.O. (mg/L) 1.46 1.26 1.31	pH  6.36  6.35  6.35  6.35	ORP (mV) -85.4 -85.5 -85.4 -85.5	Turbidity (NTU)	DTW		
Replicate  1 2 3	Temp (°F/°C) 8.6 8.5	Cond. (uS/cm)  341.7  340.2  338.9	D.O. (mg/L) 1.46 1.26	pH  6.36  6.35  6.35	ORP (mV) -85.4 -85.5	Turbidity	DTW		
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8.6 8.5 8.6 8.6	Cond. (uS/cm)  341.7  340.2  338.9  339.9	D.O. (mg/L) 1.46 1.26 1.31 1.31	pH  6.36  6.35  6.35  6.35	ORP (mV) -85.4 -85.5 -85.4 -85.5	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8.6 8.5 8.6 8.6 8.6	Cond. (uS/cm)  341.7  340.2  338.9  339.9	D.O. (mg/L) 1.46 1.26 1.31 1.31 1.34	pH  6.36  6.35  6.35  6.35  6.35	ORP (mV)  -85.4  -85.5  -85.5  -85.5  TYPE (Circle a)	Turbidity (NTU)  #DIV/0!	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8.6 8.6 8.6 8.6 TYPICAL A (8260-SIM)	Cond. (uS/cm) 341.7 340.2 338.9 338.7 339.9 NALYSIS AI	D.O. (mg/L)  1.46  1.26  1.31  1.34  LLOWED PE	6.36 6.35 6.35 6.35 6.35 CR BOTTLE G) (NWTPH	ORP (mV)  -85.4  -85.5  -85.4  -85.5  TYPE (Circle application of the company of	Turbidity (NTU)  #DIV/0!	DTW (ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8.6 8.5 8.6 8.6 8.6 8.6 8.6 (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm)  341.7  340.2  338.9  338.7  339.9  NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD:	D.O. (mg/L)  1.46  1.26  1.31  1.34  LLOWED PE D) (NWTPH-H-D) (NWT	6.36 6.35 6.35 6.35 6.35 CR BOTTLE G) (NWTPF PH-Dx) (TPF OD) (Turbic	ORP (mV)  -85.4  -85.5  -85.5  -85.5  TYPE (Circle all-Gx) (BTEX)  H-HCID) (8081)  dity) (Alkalinity)	#DIV/0! pplicable or write  (8141) (Oil & G	DTW (ft)	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.6  8.5  8.6  8.6  8.6  TYPICAL A (8260-SIM) (8270D) (PA(pH) (Conduction) (TOO	Cond. (uS/cm)  341.7  340.2  338.9  338.7  339.9  NALYSIS AI (8010) (8020  MH) (NWTPH	D.O. (mg/L)  1.46  1.26  1.31  1.31  1.34  LLOWED PE D) (NWTPH-H-D) (NWTPH-H-D	6.36 6.35 6.35 6.35 6.35 CR BOTTLE G) (NWTPF PH-Dx) (TPF OD) (Turbic tal Kiedahl N	ORP (mV)  -85.4  -85.5  -85.5  -85.5  TYPE (Circle application of the company of	#DIV/0! pplicable or write  (8141) (Oil & G	DTW (ft)	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.6  8.6  8.6  8.6  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm)  341.7  340.2  338.9  338.7  339.9  NALYSIS AI (8010) (8020  AH) (NWTPH (NWTPH (NETVITY)) (TD)  105310C) (To)  1cle (WAD Cy	D.O. (mg/L)  1.46  1.26  1.31  1.31  1.34  LLOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Towanide) (Free vanide)	6.36 6.35 6.35 6.35 6.35 CR BOTTLE G) (NWTPP PH-Dx) (TPP OD) (Turbic tal Kiedahl N Cyanide)	ORP (mV)  -85.4  -85.5  -85.5  -85.5  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 a rease) CI) (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
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.6  8.5  8.6  8.6  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  341.7  340.2  338.9  338.7  339.9  NALYSIS AI (8010) (8020  AH) (NWTPH (NWTPH (NETVITY)) (TD: (TD: (TD: (TD: (TD: (TD: (TD: (TD:	D.O. (mg/L)  1.46  1.26  1.31  1.34  LLOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Toward PO4) (Toward PO4) (Toward PO4) (Toward PO4) (Free Paa) (Be) (Ca	6.36 6.35 6.35 6.35 6.35 CR BOTTLE G) (NWTPP PH-Dx) (TPP OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -85.4  -85.5  -85.5  -85.5  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity) (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2)	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.6  8.6  8.6  8.6  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm)  341.7  340.2  338.9  338.7  339.9  NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: (25310C) (To de) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L)  1.46  1.26  1.31  1.34  LLOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Toward PO4) (Toward PO4) (Toward PO4) (Toward PO4) (Free Paa) (Be) (Ca	6.36 6.35 6.35 6.35 6.35 CR BOTTLE G) (NWTPP PH-Dx) (TPP OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -85.4  -85.5  -85.5  -85.5  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity) (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2)	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.6  8.5  8.6  8.6  8.6  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  341.7  340.2  338.9  338.7  339.9  NALYSIS AI (8010) (8020 AH) (NWTPH (activity) (TD) (25310C) (To (be) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  1.46  1.26  1.31  1.31  1.34  LLOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To vanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.36 6.35 6.35 6.35 6.35 CR BOTTLE G) (NWTPP PH-Dx) (TPP OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -85.4  -85.5  -85.5  -85.5  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity) (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2)	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.6  8.5  8.6  8.6  8.6  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  341.7  340.2  338.9  338.7  339.9  NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD: (25310C) (To de) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L)  1.46  1.26  1.31  1.31  1.34  LLOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To vanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.36 6.35 6.35 6.35 6.35 CR BOTTLE G) (NWTPP PH-Dx) (TPP OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -85.4  -85.5  -85.5  -85.5  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity) (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2)	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.6  8.5  8.6  8.6  8.6  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  341.7  340.2  338.9  338.7  339.9  NALYSIS AI (8010) (8020 AH) (NWTPH (activity) (TD) (25310C) (To (be) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  1.46  1.26  1.31  1.31  1.34  LLOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To vanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.36 6.35 6.35 6.35 6.35 CR BOTTLE G) (NWTPP PH-Dx) (TPP OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -85.4  -85.5  -85.5  -85.5  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity) (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2)	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.6  8.6  8.6  8.6  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  341.7  340.2  338.9  338.7  339.9  NALYSIS AI (8010) (8020 AH) (NWTPH (activity) (TD) (25310C) (To (be) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  1.46  1.26  1.31  1.31  1.34  LLOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To vanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.36 6.35 6.35 6.35 6.35 CR BOTTLE G) (NWTPP PH-Dx) (TPP OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -85.4  -85.5  -85.5  -85.5  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity) (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2)	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.6  8.5  8.6  8.6  8.6  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  341.7  340.2  338.9  338.7  339.9  NALYSIS AI (8010) (8020 AH) (NWTPH (activity) (TD) (25310C) (To (be) (WAD Cy (c) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  1.46  1.26  1.31  1.31  1.34  LLOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To vanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.36 6.35 6.35 6.35 6.35 CR BOTTLE G) (NWTPP PH-Dx) (TPP OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -85.4  -85.5  -85.5  -85.5  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity) (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2)	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.6  8.6  8.6  8.6  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  341.7  340.2  338.9  338.7  339.9  NALYSIS AI (8010) (8020 AH) (NWTPH (1000) (TD)  1000 (CS310C) (To)  1000 (WAD Cy)  1000 (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  1.46  1.26  1.31  1.31  1.34  LLOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (To vanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.36 6.35 6.35 6.35 6.35 CR BOTTLE G) (NWTPP PH-Dx) (TPP OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -85.4  -85.5  -85.5  -85.5  TYPE (Circle and H-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity) (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G (HCO3/CO3) (0 (NO3/NO2)	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2021		_	Date/Time:	2/15/2021@	1046		
Sample Nun	nber:	RGW234S-	210215		Weather:	RAIN			
Landau Repr	resentative:	JAN			•				
WATERIEV	/EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES	)	Damaged (N	(0)	Describe:	FLUSHMOUN	IT	
DTW Before		6.53	Time:		Flow through ce			GW Meter No.(s	: 11
	Date/Time:			End Purge:	-	2/15/2021 @	1044	Gallons Purged:	0.25
Purge water d		2/13/2021 @	55-gal Drum	Ě	Storage Tank	Ground		SITE TREATM	
i uige water u	nsposed to.		55-gai Diulii		Storage Talik	□ Ground	Other	SHE IKEAIW	ENT STSTEM
Time	Temp (°F/°C)	Cond.	D.O.	pН	ORP (mV)	Turbidity	DTW	Internal Purge	Comments/
Time	` /	(uS/cm) ls: Stablizatio	(mg/L) n of Paramet	ters for three	, ,	(NTU) lings within the fo	(ft) Illowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1026	5.7	205.1	2.77	6.47	-16.2		6.53		
1029	5.2	189.8	2.96	6.55	-25.9		6.53		
-									
1032		200.3	4.37	6.62	-26.2		6.53		
1035	4.6	161.2	5.52	6.65	-22.9				
1038	4.4	130.4	5.84	6.58	-13.1	_			
1041	4.3	112.1	6.29	6.53	-3.5				
1043	4.3	104.6	6.37	6.51	-1.1				
						-			
SAMPLE CO	LLECTION I	DATA							
Sample Colle			Bailer		Pump/Pump Type	DED. BLADDER	<u> </u>		
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Wa		Tap Rinse	DI Water	Dedicated	-		
Decem I loce		THEOHOM TTU	···	Tup Timbe					
(By Numerica	ıl Order)	Other							
(By Numerical		Other	sheen etc.):	LIGHT TAN	LOW TURB. N	_			
		—	, sheen, etc.):	LIGHT TAN	I, LOW TURB, N	_			
, -		—	D.O. (mg/L)	LIGHT TAN	J, LOW TURB, N  ORP  (mV)	_	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	ription (color, t	turbidity, odor	D.O.		ORP	Turbidity			
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity			
Replicate  1 2	Temp (°F/°C) 4.3	Cond. (uS/cm)  102.1	D.O. (mg/L) 6.42 6.40	<b>pH</b> 6.51 6.51	ORP (mV) 0.1	Turbidity			
Replicate  1 2 3	Temp (°F/°C) 4.3 4.4 4.4	Cond. (uS/cm)  102.1  102.0  101.3	D.O. (mg/L) 6.42 6.40	6.51 6.51 6.51	ORP (mV) 0.1 1.2	Turbidity			
Replicate  1 2 3 4	Temp (°F/°C) 4.3 4.4 4.4	Cond. (uS/cm) 102.1 102.0 101.3	D.O. (mg/L) 6.42 6.40 6.38	6.51 6.51 6.51 6.51	ORP (mV)  0.1  1.2  1.8  1.5	Turbidity (NTU)			
Replicate  1 2 3	Temp (°F/°C) 4.3 4.4 4.4	Cond. (uS/cm)  102.1  102.0  101.3	D.O. (mg/L) 6.42 6.40	6.51 6.51 6.51	ORP (mV) 0.1 1.2	Turbidity			
Replicate  1 2 3 4 Average:	Temp (°F/°C) 4.3 4.4 4.4 4.4	Cond. (uS/cm)  102.1  102.0  101.3  100.7	D.O. (mg/L) 6.42 6.40 6.38 6.34	6.51 6.51 6.51 6.51 6.51	ORP (mV)  0.1  1.2  1.8  1.5	Turbidity (NTU)	(ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 4.3 4.4 4.4 4.4 TYPICAL A	Cond. (uS/cm)  102.1  102.0  101.3  100.7	D.O. (mg/L) 6.42 6.40 6.38 6.34 6.39	6.51 6.51 6.51 6.51 6.51 6.51	ORP (mV)  0.1  1.2  1.8  1.5  1.2  TYPE (Circle a)	Turbidity (NTU)  #DIV/0!	(ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 4.3 4.4 4.4 4.4 TYPICAL A (8260-SIM)	Cond. (uS/cm)  102.1  102.0  101.3  100.7  101.5  NALYSIS AI (8010) (8020	D.O. (mg/L) 6.42 6.40 6.38 6.34 6.39 LLOWED PE	6.51 6.51 6.51 6.51 6.51 6.7 6.51 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	ORP (mV)  0.1  1.2  1.8  1.5  1.2  TYPE (Circle all-Gx) (BTEX)	Turbidity (NTU)  #DIV/0!	(ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 4.3 4.4 4.4 4.4 4.4 (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm)  102.1  102.0  101.3  100.7  101.5  NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS)	D.O. (mg/L)  6.42  6.40  6.38  6.34  6.39  LOWED PE D) (NWTPH-H-D) (NWTF	6.51 6.51 6.51 6.51 6.51 6.FR BOTTLE G) (NWTPF PH-Dx) (TPF BOD) (Turbic	ORP (mV)  0.1  1.2  1.8  1.5  1.2  TYPE (Circle all-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G	non-standard a	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  4.3  4.4  4.4  4.4  TYPICAL A  (8260-SIM) (8270D) (PA (pH) (Conduction) (TOO	Cond. (uS/cm)  102.1  102.0  101.3  100.7  101.5  NALYSIS AI (8010) (8020  AH) (NWTPH (etivity) (TD: (25310C) (To	D.O. (mg/L)  6.42  6.40  6.38  6.34  6.39  LLOWED PE D) (NWTPH-H-D) (NWTPH-H-D	6.51 6.51 6.51 6.51 6.51 6.51 6.7 CR BOTTLE G) (NWTPF PH-Dx) (TPF BOD) (Turbic tal Kiedahl N	ORP (mV)  0.1  1.2  1.8  1.5  1.2  TYPE (Circle a)  H-Gx) (BTEX)  H-HCID) (8081)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G	non-standard a	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  4.3  4.4  4.4  4.4  TYPICAL A (8260-SIM) (8270D) (PA (COD) (Too	Cond. (uS/cm)  102.1  102.0  101.3  100.7  101.5  NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS	D.O. (mg/L)  6.42  6.40  6.38  6.34  6.39  LOWED PF D) (NWTPH-H-D)	6.51 6.51 6.51 6.51 6.51 6.7 6.51 6.51 CR BOTTLE G) (NWTPP PH-Dx) (TPP GOD) (Turbic tal Kiedahl N Cyanide)	ORP (mV)  0.1  1.2  1.8  1.5  1.2  TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity (itrogen) (NH3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (6 (NO3/NO2)	non-standard a	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  4.3  4.4  4.4  4.4  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  102.1  102.0  101.3  100.7  101.5  NALYSIS AI (8010) (8020  AH) (NWTPHetivity) (TD: 0.000  101.5  CS310C) (To 0.000  (WAD Cy 0.000) (As) (Sb) (	D.O. (mg/L) 6.42 6.40 6.38 6.34 6.39 LLOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Total PO4) (Tot	6.51 6.51 6.51 6.51 6.51 6.7 6.51 6.51 6.51 6.51 6.51 CR BOTTLE GO (NWTPF CH-Dx) (TPF COD) (Turbic ttal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  0.1  1.2  1.8  1.5  1.2  TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)	non-standard a  irease) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  Graph  Graph
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  4.3  4.4  4.4  4.4  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm)  102.1  102.0  101.3  100.7  101.5  NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS) (25310C) (To de) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (	D.O. (mg/L) 6.42 6.40 6.38 6.34 6.39 LLOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Total PO4) (Tot	6.51 6.51 6.51 6.51 6.51 6.7 6.51 6.51 6.51 6.51 6.51 CR BOTTLE GO (NWTPF CH-Dx) (TPF COD) (Turbic ttal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  0.1  1.2  1.8  1.5  1.2  TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)	non-standard a  irease) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 4.3 4.4 4.4 4.4 4.4  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  102.1  102.0  101.3  100.7  101.5  NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (be) (WAD Cy) ) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  6.42  6.40  6.38  6.34  6.39  LLOWED PE D) (NWTPH-I-D) (NWTPH-I-D	6.51 6.51 6.51 6.51 6.51 6.7 6.51 6.51 6.51 6.51 6.51 CR BOTTLE GO (NWTPF CH-Dx) (TPF COD) (Turbic ttal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  0.1  1.2  1.8  1.5  1.2  TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)	non-standard a  irease) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  Graph  Graph
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 4.3 4.4 4.4 4.4 4.4  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  102.1  102.0  101.3  100.7  101.5  NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS) (25310C) (To de) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (	D.O. (mg/L)  6.42  6.40  6.38  6.34  6.39  LLOWED PE D) (NWTPH-I-D) (NWTPH-I-D	6.51 6.51 6.51 6.51 6.51 6.7 6.51 6.51 6.51 6.51 6.51 CR BOTTLE GO (NWTPF CH-Dx) (TPF COD) (Turbic ttal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  0.1  1.2  1.8  1.5  1.2  TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)	non-standard a  irease) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  Graph  Graph
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 4.3 4.4 4.4 4.4 4.4  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  102.1  102.0  101.3  100.7  101.5  NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (be) (WAD Cy) ) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  6.42  6.40  6.38  6.34  6.39  LLOWED PE D) (NWTPH-I-D) (NWTPH-I-D	6.51 6.51 6.51 6.51 6.51 6.7 6.51 6.51 6.51 6.51 6.51 CR BOTTLE GO (NWTPF CH-Dx) (TPF COD) (Turbic ttal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  0.1  1.2  1.8  1.5  1.2  TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)	non-standard a  irease) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  Graph  Graph
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 4.3 4.4 4.4 4.4 4.4  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  102.1  102.0  101.3  100.7  101.5  NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (be) (WAD Cy) ) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  6.42  6.40  6.38  6.34  6.39  LLOWED PE D) (NWTPH-I-D) (NWTPH-I-D	6.51 6.51 6.51 6.51 6.51 6.7 6.51 6.51 6.51 6.51 6.51 CR BOTTLE GO (NWTPF CH-Dx) (TPF COD) (Turbic ttal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  0.1  1.2  1.8  1.5  1.2  TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)	non-standard a  irease) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  Graph  Graph
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  4.3  4.4  4.4  4.4  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  102.1  102.0  101.3  100.7  101.5  NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (be) (WAD Cy) ) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  6.42  6.40  6.38  6.34  6.39  LLOWED PE D) (NWTPH-I-D) (NWTPH-I-D	6.51 6.51 6.51 6.51 6.51 6.7 6.51 6.51 6.51 6.51 6.51 CR BOTTLE GO (NWTPF CH-Dx) (TPF COD) (Turbic ttal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  0.1  1.2  1.8  1.5  1.2  TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)	non-standard a  irease) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  Graph  Graph
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  4.3  4.4  4.4  4.4  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  102.1  102.0  101.3  100.7  101.5  NALYSIS AI (8010) (8020 AH) (NWTPHactivity) (TD: (25310C) (To: (be) (WAD Cy) ) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  6.42  6.40  6.38  6.34  6.39  LLOWED PE D) (NWTPH-I-D) (NWTPH-I-D	6.51 6.51 6.51 6.51 6.51 6.7 6.51 6.51 6.51 6.51 6.51 CR BOTTLE GO (NWTPF CH-Dx) (TPF COD) (Turbic ttal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  0.1  1.2  1.8  1.5  1.2  TYPE (Circle and H-Gx) (BTEX) H-HCID) (8081) dity) (Alkalinity (itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) ((NO3/NO2)	non-standard a  irease) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  Graph  Graph



Project Nam	e:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2021			Date/Time:	2/15/2021@	1016		
Sample Num	nber:	RGW235I-	210215		Weather:	CLOUDY			
Landau Repr	resentative:	JAN							
WATER LEV	'EL/WELL/PU	JRGE DATA							
Well Condition	n:	Secure (YES	)	Damaged (N	O)	Describe:	FLUSHMOUN	ΙΤ	
DTW Before	Purging (ft)	6.06	Time:	951	Flow through ce	ll vol.		GW Meter No.(	s 11
Begin Purge:	Date/Time:	2/15/2021 @	953	End Purge:	Date/Time:	2/15/2021 @	1009	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)	p	(mV)	(NTU)	(ft)	Volume (gal)	Observations
	_					lings within the fo	_	>/= 1 flow	
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
956	8.4	138.9	1.32	6.77	-1.7		6.08		
959	7.3	143.9	1.36	6.75	-25.5		6.08		
1002	6.8	138.0	1.36	6.66	-40.3		6.08		
1005	6.9	136.8	1.37	6.64	42.5				
1008	6.6	133.7	1.29	6.62	-46.4				
1011									
								· <del></del>	
1013							-		
SAMPLE CO	LIECTIONE								
Sample Collection			Bailer		Pumn/Pumn Tyrne	DED. BLADDER			
Made of:	cica wiiii.	Stainless Ste	_	PVC	Teflon	Polyethylene		Dedicated	-
Decon Proced					DI Water		U Other	Dedicated	
(By Numerica		Alconox Wa	sn 📋	Tap Rinse	DI Water	Dedicated			
		Other	sheen etc.):	NO COL OR	IOW TURR N	O/NS			
		_	, sheen, etc.):	NO COLOR	, LOW TURB, N	O/NS.			
		_	D.O. (mg/L)	NO COLOR	, LOW TURB, N	O/NS.  Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	iption (color, t	turbidity, odor	D.O.		ORP	Turbidity			
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity			
Sample Descr Replicate	Temp (°F/°C) 6.6	Cond. (uS/cm)  133.6	D.O. (mg/L) 1.28	<b>pH</b> 6.61 6.61	ORP (mV) -46.7 -47.0	Turbidity			
Replicate  1 2 3	Temp (°F/°C) 6.6 6.6	Cond. (uS/cm) 133.6 132.6	D.O. (mg/L) 1.28 1.28	<b>pH</b> 6.61 6.61 6.62	ORP (mV) -46.7 -47.0	Turbidity			
Replicate  1 2 3 4	Temp (°F/°C) 6.6 6.6 6.6	Cond. (uS/cm) 133.6 132.6 132.6	D.O. (mg/L) 1.28 1.28 1.28	pH  6.61  6.61  6.62  6.62	ORP (mV) -46.7 -47.0 -47.5	Turbidity (NTU)			
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.6 6.6 6.6 6.6	Cond. (uS/cm) 133.6 133.5 132.6 132.6	D.O. (mg/L)  1.28  1.28  1.28  1.27  1.28	pH  6.61  6.62  6.62	ORP (mV) -46.7 -47.0 -47.5 -47.7	Turbidity (NTU)  #DIV/0!	(ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.6 6.6 6.6 6.6 7YPICAL A	Cond. (uS/cm) 133.6 133.5 132.6 132.6 133.1	D.O. (mg/L) 1.28 1.28 1.27 1.28	6.61 6.61 6.62 6.62 6.62	ORP (mV) -46.7 -47.0 -47.5 -47.7 -47.2  TYPE (Circle a)	Turbidity (NTU)	(ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.6 6.6 6.6 6.6 7YPICAL A	Cond. (uS/cm) 133.6 132.6 132.6 133.1 NALYSIS AI (8010) (8020	D.O. (mg/L)  1.28  1.28  1.28  1.27  1.28  LLOWED PE  D) (NWTPH-	6.61 6.62 6.62 6.62 6.62 CR BOTTLE	ORP (mV) -46.7 -47.0 -47.5 -47.7 -47.2  TYPE (Circle all-Gx) (BTEX)	Turbidity (NTU)  #DIV/0!  pplicable or write	(ft)	nalysis below)	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.6 6.6 6.6 6.6 7YPICAL A (8260-SIM) (8270D) (PA	Cond. (uS/cm)  133.6  133.5  132.6  133.1  NALYSIS AI  (8010) (8020)	D.O. (mg/L)  1.28  1.28  1.27  1.28  1.27  1.28  LLOWED PE  D) (NWTPH-H-D) (NWTFH-H-D) (NWTFH-H-D) (NWTFH-H-D)	6.61 6.62 6.62 6.62 CR BOTTLE G) (NWTPI	ORP (mV)  -46.7  -47.0  -47.5  -47.7  -47.2  TYPE (Circle a)  H-HCID) (8081)	#DIV/0!	non-standard a	nalysis below) WA  WA  WA	Observations
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  6.6  6.6  6.6  7YPICAL A (8260-SIM) (8270D) (PA	Cond. (uS/cm)  133.6  133.5  132.6  133.1  NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TD)	D.O. (mg/L)  1.28  1.28  1.27  1.28  1.27  1.28  LLOWED PE  D) (NWTPH-H-D) (NW	6.61 6.62 6.62 6.62 CR BOTTLE G) (NWTPP PH-Dx) (TPP	ORP (mV)  -46.7  -47.0  -47.5  -47.7  -47.2  TYPE (Circle all-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity	#DIV/0! pplicable or write  (8141) (Oil & G	non-standard a	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 6.6 6.6 6.6 6.6 7YPICAL A (8260-SIM) (8270D) (PA) (pH) (Conduction) (TOO	Cond. (uS/cm)  133.6  133.5  132.6  133.1  NALYSIS AI (8010) (8020  AH) (NWTPH (1000) (TD) (25310C) (To	D.O. (mg/L)  1.28  1.28  1.28  1.27  1.28  1.27  1.28  LLOWED PE D) (NWTPH-H-D) (NWTPH-H-D	6.61 6.62 6.62 6.62 CR BOTTLE G) (NWTPF PH-Dx) (TPF OD) (Turbital Kiedahl N	ORP (mV)  -46.7  -47.0  -47.5  -47.7  -47.2  TYPE (Circle a)  H-HCID) (8081)	#DIV/0! pplicable or write  (8141) (Oil & G	non-standard a	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  6.6  6.6  6.6  6.6  TYPICAL A (8260-SIM) (8270D) (PA (COD) (TOO	Cond. (uS/cm)  133.6  133.5  132.6  133.1  NALYSIS AI (8010) (8020  AH) (NWTPHetivity) (TD: 125310C) (To e) (WAD Cy	D.O. (mg/L)  1.28  1.28  1.28  1.27  1.28  LLOWED PF  D) (NWTPH-H-D) (NWTPH-H-	6.61 6.62 6.62 6.62 CR BOTTLE G) (NWTPP PH-Dx) (TPP OD) (Turbital Kiedahl N Cyanide)	ORP (mV)  -46.7  -47.0  -47.5  -47.7  -47.2  TYPE (Circle a)  I-Gx) (BTEX)  H-HCID) (8081)  dity) (Alkalinity itrogen) (NH3)	#DIV/0! pplicable or write  (8141) (Oil & G	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  ONE WA	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 6.6 6.6 6.6 6.6 7YPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  133.6  133.5  132.6  133.1  NALYSIS AI (8010) (8020  AH) (NWTPH (1000) (TD) (2000) (To) (Color (WAD Cyu)) (As) (Sb) (	D.O. (mg/L)  1.28  1.28  1.28  1.27  1.28  LLOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Today anide) (Free Ba) (Be) (Ca	6.61 6.62 6.62 6.62 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -46.7  -47.0  -47.5  -47.7  -47.2  TYPE (Circle ald-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB ON (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 6.6 6.6 6.6 6.6 7YPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  133.6  133.5  132.6  133.1  NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (120 AH) (NWTPHETIVITY) (TOS (120 AH) (NAD Cy) (As) (Sb) (etals) (As) (Sb) (ctals) (As) (Sb) (ctals) (As) (Sb)	D.O. (mg/L)  1.28  1.28  1.28  1.27  1.28  LLOWED PE D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (NWTPH-H-D) (Today anide) (Free Ba) (Be) (Ca	6.61 6.62 6.62 6.62 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -46.7  -47.0  -47.5  -47.7  -47.2  TYPE (Circle ald-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB 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 3	Temp (°F/°C) 6.6 6.6 6.6 6.6 7YPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm)  133.6  133.5  132.6  133.1  NALYSIS AI (8010) (8020 AH) (NWTPHetivity) (TDS (120 AH) (NWTPHETIVITY) (TOS (120 AH) (NAD Cy) (As) (Sb) (etals) (As) (Sb) (ctals) (As) (Sb) (ctals) (As) (Sb)	D.O. (mg/L)  1.28  1.28  1.28  1.27  1.28  1.29	6.61 6.62 6.62 6.62 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -46.7  -47.0  -47.5  -47.7  -47.2  TYPE (Circle ald-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB 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 3	Temp (°F/°C) 6.6 6.6 6.6 6.6 7YPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm)  133.6  133.5  132.6  132.6  133.1  NALYSIS AI (8010) (8020  AH) (NWTPH (1000) (TD) (1000) (TO) (1000) (TO) (1000) (TO) (TO) (TO) (TO) (TO) (TO) (TO) (TO	D.O. (mg/L)  1.28  1.28  1.28  1.27  1.28  1.29	6.61 6.62 6.62 6.62 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -46.7  -47.0  -47.5  -47.7  -47.2  TYPE (Circle ald-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB 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 3	Temp (°F/°C) 6.6 6.6 6.6 6.6 7YPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  133.6  133.5  132.6  132.6  133.1  NALYSIS AI (8010) (8020  AH) (NWTPH (1000) (TD) (1000) (TO) (1000) (TO) (1000) (TO) (TO) (TO) (TO) (TO) (TO) (TO) (TO	D.O. (mg/L)  1.28  1.28  1.28  1.27  1.28  1.29	6.61 6.62 6.62 6.62 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -46.7  -47.0  -47.5  -47.7  -47.2  TYPE (Circle ald-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB 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 3	Temp (°F/°C) 6.6 6.6 6.6 6.6 7YPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm)  133.6  133.5  132.6  132.6  133.1  NALYSIS AI (8010) (8020  AH) (NWTPH (1000) (TD) (1000) (TO) (1000) (TO) (1000) (TO) (TO) (TO) (TO) (TO) (TO) (TO) (TO	D.O. (mg/L)  1.28  1.28  1.28  1.27  1.28  1.29	6.61 6.62 6.62 6.62 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -46.7  -47.0  -47.5  -47.7  -47.2  TYPE (Circle ald-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB 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 3	Temp (°F/°C) 6.6 6.6 6.6 6.6 7YPICAL A (8260-SIM) (8270D) (PA (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  133.6  133.5  132.6  132.6  133.1  NALYSIS AI (8010) (8020  AH) (NWTPH (1000) (TD) (1000) (TO) (1000) (TO) (1000) (TO) (TO) (TO) (TO) (TO) (TO) (TO) (TO	D.O. (mg/L)  1.28  1.28  1.28  1.27  1.28  1.29	6.61 6.62 6.62 6.62 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -46.7  -47.0  -47.5  -47.7  -47.2  TYPE (Circle ald-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB 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 3	Temp (°F/°C) 6.6 6.6 6.6 6.6 7YPICAL A (8260-SIM) (8270D) (PA (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  133.6  133.5  132.6  132.6  133.1  NALYSIS AI (8010) (8020  AH) (NWTPH (1000) (TD) (1000) (TO) (1000) (TO) (1000) (TO) (TO) (TO) (TO) (TO) (TO) (TO) (TO	D.O. (mg/L)  1.28  1.28  1.28  1.27  1.28  1.29	6.61 6.62 6.62 6.62 CR BOTTLE G) (NWTPF H-Dx) (TPF OD) (Turbic tal Kiedahl N Cyanide) () (Cd) (Co)	ORP (mV)  -46.7  -47.0  -47.5  -47.7  -47.2  TYPE (Circle ald-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB ON (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



	ne <u>:</u>	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2021			Date/Time:	2/15/2021@	946		
Sample Nun	nber:	RGW236S-	210215		Weather:	MISTY			
Landau Rep	resentative:	JAN							
WATER LEV	VEL/WELL/PU	JRGE DATA							
Well Condition	on:	Secure (YES)	)	Damaged (N	O)	Describe:	FLUSHMOUN	ΙΤ	
DTW Before	Purging (ft)	6.78	Time:	916	Flow through ce	ll vol.		GW Meter No.(s	s 11
Begin Purge:	Date/Time:	2/15/2021 @	918	End Purge:	Date/Time:	2/15/2021 @	939	Gallons Purged:	0.25
Purge water d	lisposed 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
	+/- 3%	+/- 3%		ters for three +/- 0.1 units	+/- 10 mV	lings within the fo +/- 10%	< 0.3 ft	>/= 1 flow through cell	
921		257.6	5.27	6.14	104.6		6.79		
924		248.8	4.40	6.18	82.6		6.79		
							-		-
927		239.3	3.92	6.20	66.6	-	6.79		
930	4.4	216.7	3.27	6.22	41.9				
933	4.2	216.8	3.25	6.22	41.5				
936	4.1	212.2	2.96	6.23	37.7				
938	3.9	209.7	2.80	6.24	36.4				
SAMPLE CO	LLECTION I	OATA							
Sample Colle	ected With:		Bailer		Pump/Pump Type	DED. BLADDER	_		
Made of:		Stainless Stee	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proceed	dure:	Alconox Was	h 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	al Order)	Other							
Sample Descr									
	ription (color,	turbidity, odor	, sheen, etc.):	LIGHT ORA	NGE, LOW-ME	D TURB, NO/NS.			
Danligata							DTW	Formous iron	Commental
Replicate	Temp	Cond. (uS/cm)	D.O. (mg/L)	pH	ORP (mV)	D TURB, NO/NS.  Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Replicate	Temp	Cond.	D.O.		ORP	Turbidity			
1	Temp (°F/°C) 4.0	Cond. (uS/cm) 209.5	D.O. (mg/L)	<b>рН</b> 6.24	ORP (mV)	Turbidity			
1 2	Temp (°F/°C) 4.0	Cond. (uS/cm) 209.5 209.3	D.O. (mg/L) 2.76	pH 6.24 6.24	ORP (mV) 36.4 36.3	Turbidity			
1 2 3	Temp (°F/°C) 4.0 4.0 3.9	Cond. (uS/cm) 209.5 209.3 208.6	D.O. (mg/L) 2.76 2.74	6.24 6.24 6.25	ORP (mV) 36.4 36.3 35.7	Turbidity			
1 2 3 4	Temp (°F/°C) 4.0 4.0 3.9 3.9	Cond. (uS/cm) 209.5 209.3 208.6 208.4	D.O. (mg/L) 2.76 2.74 2.74 2.73	pH  6.24  6.24  6.25  6.25	ORP (mV) 36.4 36.3 35.7 35.8	Turbidity (NTU)			
1 2 3	Temp (°F/°C) 4.0 4.0 3.9	Cond. (uS/cm) 209.5 209.3 208.6	D.O. (mg/L) 2.76 2.74	6.24 6.24 6.25	ORP (mV) 36.4 36.3 35.7	Turbidity			
1 2 3 4	Temp (°F/°C) 4.0 4.0 3.9 3.9 4.0	Cond. (uS/cm) 209.5 209.3 208.6 208.4 209.0	D.O. (mg/L)  2.76  2.74  2.73  2.74  LOWED PE	6.24 6.24 6.25 6.25 6.25	ORP (mV)  36.4  36.3  35.7  35.8  36.1  TYPE (Circle a)	Turbidity (NTU)	(ft)	(Fe II)	
1 2 3 4 Average:	Temp (°F/°C) 4.0 4.0 3.9 3.9 4.0 TYPICAL A (8260-SIM)	Cond. (uS/cm) 209.5 209.3 208.6 208.4 209.0 NALYSIS AI (8010) (8020	D.O. (mg/L) 2.76 2.74 2.74 2.73 2.74 LOWED PF (NWTPH-	6.24 6.24 6.25 6.25 6.25 6.25 6.26 CR BOTTLE	ORP (mV)  36.4  36.3  35.7  35.8  36.1  TYPE (Circle all-Gx) (BTEX)	Turbidity (NTU)  #DIV/0!  pplicable or write	(ft)	nalysis below)	Observations OR
1 2 3 4 Average:	Temp (°F/°C) 4.0 4.0 3.9 4.0 TYPICAL A (8260-SIM) (8270D) (PA	Cond. (uS/cm) 209.5 209.3 208.6 208.4 209.0  NALYSIS AL (8010) (8020  H) (NWTPH	D.O. (mg/L)  2.76  2.74  2.74  2.73  2.74  LOWED PF  (NWTPH-I-D) (NWTF	6.24 6.24 6.25 6.25 6.25 6.25 6.27 CR BOTTLE G) (NWTPP	ORP (mV)  36.4  36.3  35.7  35.8  36.1  TYPE (Circle a)  I-Gx) (BTEX)  I-HCID) (8081)	#DIV/0!	non-standard a	nalysis below) WA  WA  WA	Observations
1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  4.0  4.0  3.9  3.9  4.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm)  209.5  209.3  208.6  208.4  209.0  NALYSIS AI (8010) (8020 AH) (NWTPH activity) (TDS	D.O. (mg/L)  2.76  2.74  2.73  2.74  LOWED PF  (NWTPH-I-D) (NWTFH-I-D) (NWTFH-I-D) (NWTFH-I-D) (NWTFH-I-D) (TSS) (E	6.24 6.25 6.25 6.25 6.25 6.27 6.27 6.20 (NWTPEPH-Dx) (TPFBOD) (Turbic	ORP (mV)  36.4  36.3  35.7  35.8  36.1  TYPE (Circle all-Gx) (BTEX)  H-HCID) (8081) dity) (Alkalinity	#DIV/0! pplicable or write  (8141) (Oil & G	non-standard a	nalysis below) WA  WA  WA	Observations OR
1 2 3 4 Average:	Temp (°F/°C)  4.0  4.0  3.9  3.9  4.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu	Cond. (uS/cm)  209.5  209.3  208.6  208.4  209.0  NALYSIS AI (8010) (8020  AH) (NWTPH detivity) (TDS) (25310C) (Tot	D.O. (mg/L)  2.76  2.74  2.73  2.74  2.73  2.74  LOWED PE  (NWTPH-I-D) (NWTFH-I-D) (NWTFH-	6.24 6.24 6.25 6.25 6.25 6.26 CR BOTTLE G) (NWTPF PH-Dx) (TPF BOD) (Turbio stal Kiedahl N	ORP (mV)  36.4  36.3  35.7  35.8  36.1  TYPE (Circle a)  I-Gx) (BTEX)  I-HCID) (8081)	#DIV/0! pplicable or write  (8141) (Oil & G	non-standard a	nalysis below) WA  WA  WA	Observations OR
1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  4.0  4.0  3.9  3.9  4.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Conduction) (TOO) (Total Cyanical	Cond. (uS/cm)  209.5  209.3  208.6  208.4  209.0  NALYSIS AI (8010) (8020  AH) (NWTPHetivity) (TDS (25310C) (Total	D.O. (mg/L)  2.76  2.74  2.73  2.74  2.73  2.74  LOWED PF () (NWTPH-I-D) (NWTP	6.24 6.24 6.25 6.25 6.25 6.25 G.R BOTTLE G) (NWTPP PH-Dx) (TPP BOD) (Turbio tal Kiedahl N C Cyanide)	ORP (mV)  36.4  36.3  35.7  35.8  36.1  TYPE (Circle and 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)	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR □  OR □
1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  4.0  4.0  3.9  4.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 209.5 209.3 208.6 208.4 209.0  NALYSIS AI (8010) (8020 AH) (NWTPH (ctivity) (TDS) (25310C) (Tot (e) (WAD Cy () (As) (Sb) (1)	D.O. (mg/L)  2.76  2.74  2.73  2.74  2.73  2.74  LOWED PF () (NWTPH-I-D) (NWTPH-I-D) (NWTPH-I-D) (NWTPH-I-D) (NWTPH-I-D) (Total PO4) (Tota	6.24 6.24 6.25 6.25 6.25 6.25 6.26 CR BOTTLE GOD) (Turbic stal Kiedahl Net Cyanide) a) (Cd) (Co)	ORP (mV)  36.4  36.3  35.7  35.8  36.1  TYPE (Circle ald Grade (Circle ald Grade (Circle))  H-HCID) (8081)  dity) (Alkalinity (Itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  4.0  4.0  3.9  4.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm) 209.5 209.3 208.6 208.4 209.0  NALYSIS AI (8010) (8020 AH) (NWTPH (activity) (TDS) (25310C) (Totale) (WAD Cy (b) (As) (Sb) (detals) (As) (Sb) (Sb)	D.O. (mg/L)  2.76  2.74  2.73  2.74  2.73  2.74  LOWED PF () (NWTPH-I-D) (NWTPH-I-D) (NWTPH-I-D) (NWTPH-I-D) (NWTPH-I-D) (Total PO4) (Tota	6.24 6.24 6.25 6.25 6.25 6.25 6.26 CR BOTTLE GOD) (Turbic stal Kiedahl Net Cyanide) a) (Cd) (Co)	ORP (mV)  36.4  36.3  35.7  35.8  36.1  TYPE (Circle ald Grade (Circle ald Grade (Circle))  H-HCID) (8081)  dity) (Alkalinity (Itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR □  OR □
1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  4.0  4.0  3.9  3.9  4.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Tool (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 209.5 209.3 208.6 208.4 209.0  NALYSIS AI (8010) (8020 AH) (NWTPH (activity) (TDS) (25310C) (Totale) (WAD Cy (b) (As) (Sb) (detals) (As) (Sb) (Sb)	D.O. (mg/L)  2.76  2.74  2.73  2.74  2.73  2.74  LOWED PE  (NWTPH-I-D) (NWTF  (I-D)	6.24 6.24 6.25 6.25 6.25 6.25 6.26 CR BOTTLE GOD) (Turbic stal Kiedahl Net Cyanide) a) (Cd) (Co)	ORP (mV)  36.4  36.3  35.7  35.8  36.1  TYPE (Circle ald Grade (Circle ald Grade (Circle))  H-HCID) (8081)  dity) (Alkalinity (Itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NC	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  4.0  4.0  3.9  3.9  4.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Tool (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  209.5  209.3  208.6  208.4  209.0  NALYSIS AI (8010) (8020  AH) (NWTPH (ctivity) (TDS) (25310C) (Total) (be) (WAD Cy) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L)  2.76  2.74  2.73  2.74  2.73  2.74  LOWED PE  (NWTPH-I-D) (NWTF  (I-D)	6.24 6.24 6.25 6.25 6.25 6.25 6.26 CR BOTTLE GOD) (Turbic stal Kiedahl Net Cyanide) a) (Cd) (Co)	ORP (mV)  36.4  36.3  35.7  35.8  36.1  TYPE (Circle ald Grade (Circle ald Grade (Circle))  H-HCID) (8081)  dity) (Alkalinity (Itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  4.0  4.0  3.9  3.9  4.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Tool (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  209.5  209.3  208.6  208.4  209.0  NALYSIS AI (8010) (8020  AH) (NWTPH (ctivity) (TDS) (25310C) (Total) (be) (WAD Cy) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L)  2.76  2.74  2.73  2.74  2.73  2.74  LOWED PE  (NWTPH-I-D) (NWTF  (I-D)	6.24 6.24 6.25 6.25 6.25 6.25 6.26 CR BOTTLE GOD) (Turbic stal Kiedahl Net Cyanide) a) (Cd) (Co)	ORP (mV)  36.4  36.3  35.7  35.8  36.1  TYPE (Circle ald Grade (Circle ald Grade (Circle))  H-HCID) (8081)  dity) (Alkalinity (Itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  4.0  4.0  3.9  3.9  4.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Tool (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  209.5  209.3  208.6  208.4  209.0  NALYSIS AI (8010) (8020  AH) (NWTPH (ctivity) (TDS) (25310C) (Total) (be) (WAD Cy) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L)  2.76  2.74  2.73  2.74  2.73  2.74  LOWED PE  (NWTPH-I-D) (NWTF  (I-D)	6.24 6.24 6.25 6.25 6.25 6.25 6.26 CR BOTTLE GOD) (Turbic stal Kiedahl Net Cyanide) a) (Cd) (Co)	ORP (mV)  36.4  36.3  35.7  35.8  36.1  TYPE (Circle ald Grade (Circle ald Grade (Circle))  H-HCID) (8081)  dity) (Alkalinity (Itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
1 2 3 4 Average:  QUANTITY 3 1	Temp (°F/°C)  4.0  4.0  3.9  4.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  209.5  209.3  208.6  208.4  209.0  NALYSIS AI (8010) (8020  AH) (NWTPH (ctivity) (TDS) (25310C) (Total) (be) (WAD Cy) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L)  2.76  2.74  2.73  2.74  2.73  2.74  LOWED PE  (NWTPH-I-D) (NWTF  (I-D)	6.24 6.24 6.25 6.25 6.25 6.25 6.26 CR BOTTLE GOD) (Turbic stal Kiedahl Net Cyanide) a) (Cd) (Co)	ORP (mV)  36.4  36.3  35.7  35.8  36.1  TYPE (Circle ald Grade (Circle ald Grade (Circle))  H-HCID) (8081)  dity) (Alkalinity (Itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  4.0  4.0  3.9  4.0  TYPICAL A (8260-SIM) (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  209.5  209.3  208.6  208.4  209.0  NALYSIS AI (8010) (8020  AH) (NWTPH (ctivity) (TDS) (25310C) (Total) (be) (WAD Cy) (As) (Sb) (detals) (As) (Sb) (g short list)	D.O. (mg/L)  2.76  2.74  2.73  2.74  2.73  2.74  LOWED PE  (NWTPH-I-D) (NWTF  (I-D)	6.24 6.24 6.25 6.25 6.25 6.25 6.26 CR BOTTLE GOD) (Turbic stal Kiedahl Net Cyanide) a) (Cd) (Co)	ORP (mV)  36.4  36.3  35.7  35.8  36.1  TYPE (Circle ald Grade (Circle ald Grade (Circle))  H-HCID) (8081)  dity) (Alkalinity (Itrogen) (NH3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0 (NO3/NO2)	non-standard a rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  (TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Nam	e <u>:</u>	Boeing Ren	ton		Project Number	r:	0025217.099.0	99	
Event:		Feb. 2021			Date/Time:	2/ 16/2021@	1320		
Sample Num	nber:	RGW237S-	210216		Weather:	OVERCAST, 40	)S		
Landau Repr	resentative:				-				
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Condition		Secure (YES	)	Damaged (N	O)	Describe:	FLUSH		
DTW Before	Purging (ft)	4.86	Time:	1254	Flow through cel	ll vol.		GW Meter No.(s	SLOPE 8
Begin Purge:	0 0 0			End Purge:	_	2/ 16 /2021 @	1318	Gallons Purged:	
Purge water d			55-gal Drum		Storage Tank	Ground		SITE TREATM	
C	· m	-		_	ODD				G
Time	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity (NTU)	DTW (ft)	Internal Purge Volume (gal)	Comments/ Observations
	Purge Goal	ls: Stablizatio	n of Paramet		consecutive read	lings within the fo	llowing limits	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1259	12.0	173.3	0.86	6.47	9.9		4.87		
1302	11.3	165.2	0.84	6.52	8.5		4.87		
1305	10.2	153.1	0.93	6.43	8.5		4.87		
1308	9.6	146.6	1.10	6.42	8.7		4.86		
1311	9.3	142.5	1.03	6.40	8.9	-			
1314	9.1	140.6	0.96	6.41	8.7				
1317	9.0	140.8	0.91	6.39	8.7				
SAMPLE CO									
Sample Collec	cted With:		Bailer			NON DEDICATE		_	
Made of:	$\sqcup$	Stainless Ste	el 🛄	PVC	Teflon	Polyethylene	Other	Dedicated	
						_			
Decon Proced		Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	l Order)	Other			<u>—</u>	_			
(By Numerica	l Order)	Other			<u>—</u>	Dedicated  SMALL SOLIDS,	NO ODOR, NO	SHEEN	
(By Numerical Sample Description	l Order)	Other			<u>—</u>	_	NO ODOR, NO	SHEEN Ferrous iron	Comments/
(By Numerica	il Order)	Other turbidity, odor	s, sheen, etc.):	CLOUDY, Y	YELLOW, WITH	SMALL SOLIDS,	·		Comments/ Observations
(By Numerical Sample Description	iption (color, t	Other turbidity, odor	D.O.	CLOUDY, Y	VELLOW, WITH	SMALL SOLIDS,  Turbidity	DTW	Ferrous iron	
(By Numerical Sample Described Replicate	l Order) ciption (color, to the color) Temp (°F/°C)	Other turbidity, odor  Cond. (uS/cm)	D.O. (mg/L)	CLOUDY, Y	ORP (mV)	SMALL SOLIDS,  Turbidity	DTW	Ferrous iron	
(By Numerical Sample Description Replicate  1 2	Temp (°F/°C) 9.0	Cond. (uS/cm) 140.9	D.O. (mg/L)  0.88	CLOUDY, Y  pH  6.38  6.39	ORP (mV)  8.7  8.8	SMALL SOLIDS,  Turbidity	DTW	Ferrous iron	
Replicate  1 2 3	Temp (°F/°C)  9.0  8.9	Cond. (uS/cm) 140.9 141.2	D.O. (mg/L)  0.88  0.88	CLOUDY, Y  pH  6.38  6.39  6.39	ORP (mV)  8.7  8.8  8.8	SMALL SOLIDS,  Turbidity	DTW	Ferrous iron	
Replicate  1 2 3 4	Order	Cond. (uS/cm) 140.9 141.2 141.3	D.O. (mg/L)  0.88  0.88  0.87	CLOUDY, Y  pH  6.38  6.39  6.39  6.38	ORP (mV)  8.7  8.8  8.8  8.8	SMALL SOLIDS,  Turbidity	DTW	Ferrous iron	
Replicate  1 2 3	Temp (°F/°C)  9.0  8.9	Cond. (uS/cm) 140.9 141.2	D.O. (mg/L)  0.88  0.88	CLOUDY, Y  pH  6.38  6.39  6.39	ORP (mV)  8.7  8.8  8.8	SMALL SOLIDS,  Turbidity	DTW	Ferrous iron	
(By Numerical Sample Description Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.0 8.9 8.9 8.9 8.9	Cond. (uS/cm) 140.9 141.2 141.3 141.5 141.2 NALYSIS Al	D.O. (mg/L)  0.88  0.87  0.88  LLOWED PE	CLOUDY, Y  PH  6.38  6.39  6.38  6.39  6.38  6.39	ORP (mV)  8.7  8.8  8.8  8.8  TYPE (Circle ap	SMALL SOLIDS,  Turbidity	DTW (ft)	Ferrous iron (Fe II)	
(By Numerical Sample Description Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.0 8.9 8.9 8.9 7YPICAL A (8260) (8010	Cond. (uS/cm) 140.9 141.2 141.3 141.5 141.2 NALYSIS AI	D.O. (mg/L)  0.88  0.87  0.88  LLOWED PE	CLOUDY, Y  pH  6.38  6.39  6.39  6.39  CR BOTTLE  NWTPH-GX	ORP (mV)  8.7  8.8  8.8  8.8  TYPE (Circle aport (BTEX)	SMALL SOLIDS,  Turbidity (NTU)  Oplicable or write	DTW (ft)	Ferrous iron (Fe II)  nalysis below) WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.0  8.9  8.9  8.9  8.9  8.9  (8260) (8010) (8270) (PAF	Cond. (uS/cm)  140.9  141.2  141.3  141.5  141.2  NALYSIS AI  0) (8020) (NI  H) (NWTPH-	D.O. (mg/L)  0.88  0.87  0.88  LLOWED PENTH-G) (NWTPH	CLOUDY, Y  pH  6.38 6.39 6.39 6.38 6.39  CR BOTTLE  NWTPH-GX  -DX) (TPH-	ORP (mV)  8.7  8.8  8.8  8.8  TYPE (Circle apple (BTEX))	SMALL SOLIDS,  Turbidity (NTU)  oplicable or write	DTW (ft)	Ferrous iron (Fe II)  malysis below)  WA  WA  WA	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.0  8.9  8.9  8.9  8.9  TYPICAL A (8260) (8010) (8270) (PAH (pH) (Conduction)	Cond. (uS/cm)  140.9  141.2  141.3  141.5  141.2  NALYSIS AI  0) (8020) (NI) (NWTPH- lectivity) (TD:	D.O. (mg/L)  0.88  0.87  0.88  0.87  0.88  LLOWED PERWIPH-G) (D) (NWTPH-S) (B) (B) (B) (B)	CLOUDY, Y  pH  6.38 6.39 6.39 6.38 6.39 CR BOTTLE  NWTPH-GX  1-DX) (TPH-IOD) (Turbio)	ORP (mV)  8.7  8.8  8.8  8.8  TYPE (Circle ap (BTEX))  HCID) (8081) (dity) (Alkalinity)	SMALL SOLIDS,  Turbidity (NTU)  oplicable or write (8141) (Oil & Green (HCO3/CO3) (March 1978)	DTW (ft)	Ferrous iron (Fe II)  malysis below)  WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.0  8.9  8.9  8.9  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Conduction) (COD) (TOO	Cond. (uS/cm) 140.9 141.2 141.3 141.5 141.2 NALYSIS AI (0) (8020) (N H) (NWTPH- lectivity) (TD	D.O. (mg/L)  0.88  0.87  0.88  LLOWED PE WTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie	pH  6.38  6.39  6.39  6.38  6.39  CR BOTTLE  NWTPH-Gx,  1-Dx) (TPH-  DOD) (Turbio dahl Nitroger	ORP (mV)  8.7  8.8  8.8  8.8  TYPE (Circle apple (BTEX))	SMALL SOLIDS,  Turbidity (NTU)  oplicable or write (8141) (Oil & Green (HCO3/CO3) (March 1978)	DTW (ft)	Ferrous iron (Fe II)  malysis below)  WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.0  8.9  8.9  8.9  TYPICAL A (8260) (8016) (8270) (PAH) (pH) (Conduction (COD) (Total Cyanidal (Total (Total Cyanidal (Total (T	Cond. (uS/cm) 140.9 141.2 141.3 141.5 141.2 NALYSIS AI (D) (8020) (NI) (NWTPH- lectivity) (TD: (C) (Total PO-	D.O. (mg/L)  0.88  0.87  0.88  0.87  0.88  LLOWED PE WTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie	pH  6.38  6.39  6.39  6.39  6.39  CR BOTTLE NWTPH-GX  (I-DX) (TPH-GOD) (Turbic dahl Nitroger Cyanide)	ORP (mV)  8.7  8.8  8.8  8.8  TYPE (Circle ap (BTEX))  HCID) (8081) (dity) (Alkalinity)  (i) (NH3) (NO3/	Turbidity (NTU)  oplicable or write  (8141) (Oil & Green (HCO3/CO3) (MNO2)	DTW (ft)  non-standard and asse) Cl) (SO4) (NO	Ferrous iron (Fe II)  malysis 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
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.0  8.9  8.9  8.9  8.9  (8260) (8010) (8270) (PAF(pH) (Conduction (COD) (Total Cyanida) (Total Metals)	Cond. (uS/cm)  140.9  141.2  141.3  141.5  141.2  NALYSIS AI  (i) (8020) (NI) (NWTPH- dictivity) (TD: (iii) (Total PO- dictivity) (As) (Sb) (	D.O. (mg/L)  0.88  0.87  0.88  0.87  0.88  LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie //anide) (Free Ba) (Be) (Ca	pH  6.38 6.39 6.39 6.39 6.39 CR BOTTLE NWTPH-GX I-DX) (TPH-IOD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  8.7  8.8  8.8  8.8  TYPE (Circle applement)  HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/10) (Cr) (Cu) (Fe) (Cr)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	non-standard and asse) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.0  8.9  8.9  8.9  8.9  (8260) (8010) (8270) (PAF(pH) (Conduction (COD) (Total Cyanida) (Total Metals)	Cond. (uS/cm)  140.9  141.2  141.3  141.5  141.2  NALYSIS AI  O) (8020) (NI) (NWTPH-  lectivity) (TD: (C) (Total PO-  le) (WAD Cy (As) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L)  0.88  0.87  0.88  0.87  0.88  LLOWED PE WTPH-G) (D) (NWTPH S) (TSS) (B 4) (Total Kie //anide) (Free Ba) (Be) (Ca	pH  6.38 6.39 6.39 6.39 6.39 CR BOTTLE NWTPH-GX I-DX) (TPH-IOD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  8.7  8.8  8.8  8.8  TYPE (Circle applement)  HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/10) (Cr) (Cu) (Fe) (Cr)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	non-standard and asse) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.0 8.9 8.9 8.9  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  140.9  141.2  141.3  141.5  141.2  NALYSIS AI  O) (8020) (NI) (NWTPH-  lectivity) (TD: (C) (Total PO-  le) (WAD Cy (As) (Sb) (etals) (As) (Sb) (St)	D.O. (mg/L)  0.88  0.87  0.88  LLOWED PE WTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH  6.38 6.39 6.39 6.39 6.39 CR BOTTLE NWTPH-GX I-DX) (TPH-IOD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  8.7  8.8  8.8  8.8  TYPE (Circle applement)  HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/10) (Cr) (Cu) (Fe) (Cr)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	non-standard and asse) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.0 8.9 8.9 8.9  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 140.9 141.2 141.3 141.5 141.2 NALYSIS AI (D) (8020) (N H) (NWTPH- lectivity) (TD (C) (Total PO- le) (WAD Cy (C) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.88  0.87  0.88  LLOWED PE WTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH  6.38 6.39 6.39 6.39 6.39 CR BOTTLE NWTPH-GX I-DX) (TPH-IOD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  8.7  8.8  8.8  8.8  TYPE (Circle applement)  HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/10) (Cr) (Cu) (Fe) (Cr)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	non-standard and asse) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.0 8.9 8.9 8.9  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 140.9 141.2 141.3 141.5 141.2 NALYSIS AI (D) (8020) (N H) (NWTPH- lectivity) (TD (C) (Total PO- le) (WAD Cy (C) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.88  0.87  0.88  LLOWED PE WTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH  6.38 6.39 6.39 6.39 6.39 CR BOTTLE NWTPH-GX I-DX) (TPH-IOD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  8.7  8.8  8.8  8.8  TYPE (Circle applement)  HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/10) (Cr) (Cu) (Fe) (Cr)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	non-standard and asse) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C) 9.0 8.9 8.9 8.9  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 140.9 141.2 141.3 141.5 141.2 NALYSIS AI (D) (8020) (N H) (NWTPH- lectivity) (TD (C) (Total PO- le) (WAD Cy (C) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.88  0.87  0.88  LLOWED PE WTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH  6.38 6.39 6.39 6.39 6.39 CR BOTTLE NWTPH-GX I-DX) (TPH-IOD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  8.7  8.8  8.8  8.8  TYPE (Circle applement)  HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/10) (Cr) (Cu) (Fe) (Cr)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	non-standard and asse) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C) 9.0 8.9 8.9 8.9 8.9  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 140.9 141.2 141.3 141.5 141.2 NALYSIS AI (D) (8020) (N H) (NWTPH- lectivity) (TD (C) (Total PO- le) (WAD Cy (C) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.88  0.87  0.88  LLOWED PE WTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH  6.38 6.39 6.39 6.39 6.39 CR BOTTLE NWTPH-GX I-DX) (TPH-IOD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  8.7  8.8  8.8  8.8  TYPE (Circle applement)  HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/10) (Cr) (Cu) (Fe) (Cr)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	non-standard and asse) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C) 9.0 8.9 8.9 8.9 8.9  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 140.9 141.2 141.3 141.5 141.2 NALYSIS AI (D) (8020) (N H) (NWTPH- lectivity) (TD (C) (Total PO- le) (WAD Cy (C) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.88  0.87  0.88  LLOWED PE WTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca	pH  6.38 6.39 6.39 6.39 6.39 CR BOTTLE NWTPH-GX I-DX) (TPH-IOD) (Turbic dahl Nitroger Cyanide) () (Cd) (Co)	ORP (mV)  8.7  8.8  8.8  8.8  TYPE (Circle applement)  HCID) (8081) (dity) (Alkalinity) (i) (NH3) (NO3/10) (Cr) (Cu) (Fe) (Cr)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	non-standard and asse) CI) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Name	e:	Boeing Ren	iton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2021		_	Date/Time:	2/15/2021@	1512		
Sample Num	nber:	RGW240D	-210215		Weather:	CLOUDY SNO	W ON THE GI	ROUND	
Landau Repr	resentative:	AHA			•				
WATER LEV	EL/WELL/PI	IRGE DATA							
Well Condition		Secure (YES	5)	Damaged (N	(O)	Describe:	FLUSH MOU	NT	
DTW Before	Purging (ft)	5.98	Time:	•	Flow through ce		-	GW Meter No.(s	10
Begin Purge:	0 0 0			End Purge:	_	2/15/2021 @	1508	Gallons Purged:	0.25
Purge water d			55-gal Drum	Ĕ	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
	, ,	. ,	` 0 /	ters for three	· /	lings within the fo	` '	>/= 1 flow	o boer various
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1450	11.8	238.6	0.55	6.39	-80.5		5.98		
1453	11.3	234.4	0.49	6.41	-83.9		5.98		
1456	11.1	226.7	0.42	6.40	-83.9		5.98		
1459	11.1	223.5	0.41	6.40	-83.9				
1502	10.7	218.7	0.45	6.40	-84.1				
1505	10.4	216.1	0.45	6.40	-83.2				
1507	10.4	215.6	0.45	6.40	-83.1				
SAMPLE CO	LLECTION E								
Sample Collec	cted With:		Bailer	_	Pump/Pump Type	DED. BLADDER		_	
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Wa	sh	Tap Rinse	DI Water	Dedicated			
(By Numerica	1 Ordon)	(C)							
, ,	i Oraer)	Other							
		_	r, sheen, etc.):	NO COLOR	, LOW TURB, N	O ODOR, NO SHE	EN		
Sample Descr	ription (color,	turbidity, odor	· · · /-			·		Farmons in an	Commentel
		_	D.O. (mg/L)	NO COLOR	, LOW TURB, N	O ODOR, NO SHE  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) 215.2	D.O. (mg/L)	<b>рН</b> 6.40	ORP (mV)	Turbidity	DTW		
Sample Descr Replicate  1 2	Temp (°F/°C) 10.4	Cond. (uS/cm)  215.2  214.8	D.O. (mg/L) 0.44 0.49	pH 6.40 6.40	ORP (mV) -83.1 -82.9	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 10.4 10.4	Cond. (uS/cm)  215.2  214.8  214.7	D.O. (mg/L) 0.44 0.49	<b>pH</b> 6.40 6.40 6.40	ORP (mV) -83.1 -82.9 -83.0	Turbidity	DTW		
Sample Descr Replicate  1 2	Temp (°F/°C) 10.4	Cond. (uS/cm)  215.2  214.8	D.O. (mg/L) 0.44 0.49	pH 6.40 6.40	ORP (mV) -83.1 -82.9	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 10.4 10.4	Cond. (uS/cm)  215.2  214.8  214.7	D.O. (mg/L) 0.44 0.49	<b>pH</b> 6.40 6.40 6.40	ORP (mV) -83.1 -82.9 -83.0	Turbidity	DTW		
Replicate  1 2 3 4 Average:	Temp (°F/°C) 10.4 10.4 10.4 10.4	Cond. (uS/cm)  215.2  214.8  214.7  214.9	D.O. (mg/L)  0.44  0.49  0.46  0.45	6.40 6.40 6.40 6.40 6.40	ORP (mV) -83.1 -82.9 -83.0 -82.9 -83.0	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 10.4 10.4 10.4 10.4 TYPICAL A	Cond. (uS/cm)  215.2  214.8  214.7  214.9	D.O. (mg/L)  0.44  0.49  0.46  0.45  0.46  LLOWED PE	pH  6.40 6.40 6.40 6.40 6.40 6.40	ORP (mV)  -83.1  -82.9  -83.0  -82.9  -83.0  TYPE (Circle a)	Turbidity (NTU)  #DIV/0!	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 10.4 10.4 10.4 10.4 10.4 TYPICAL A (8260) (8010	Cond. (uS/cm)  215.2  214.8  214.7  214.7  214.9  NALYSIS AI  ()) (8020) (N	D.O. (mg/L)  0.44  0.49  0.46  0.45  0.46  LLOWED PE	6.40 6.40 6.40 6.40 6.40 CER BOTTLE	ORP (mV)  -83.1  -82.9  -83.0  -82.9  -83.0  TYPE (Circle approximately (BTEX)	Turbidity (NTU)  #DIV/0!	DTW (ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.4  10.4  10.4  10.4  10.4  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu	Cond. (uS/cm)  215.2  214.8  214.7  214.9  NALYSIS AI  0) (8020) (NI) (NWTPH- lectivity) (TD:	D.O. (mg/L)  0.44  0.49  0.46  0.45  0.46  LLOWED PERWYPH-G) (NWTPH-S) (TSS) (ESS) (ESS)	6.40 6.40 6.40 6.40 6.40 6.40 6.40 ER BOTTLE (NWTPH-GX I-Dx) (TPH-	ORP (mV)  -83.1  -82.9  -83.0  -82.9  -83.0  TYPE (Circle a)  (BTEX)  HCID) (8081)  dity) (Alkalinity	#DIV/0! pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (6	DTW (ft)	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  10.4  10.4  10.4  10.4  10.4  10.4  (8260) (8010 (8270) (PAH (pH) (Conduction) (TOO	Cond. (uS/cm)  215.2  214.8  214.7  214.7  214.9  NALYSIS AI  (D) (8020) (NI) (NWTPH-  dictivity) (TD:  (C) (Total PO-	D.O. (mg/L)  0.44  0.49  0.46  0.45  0.46  LLOWED PENTTH-G) ( D) (NWTPH-S) (TSS) (E4) (Total Kie	pH  6.40 6.40 6.40 6.40 6.40 6.40 CR BOTTLE (NWTPH-Gx) I-Dx) (TPH-BOD) (Turbic dahl Nitroger	ORP (mV)  -83.1  -82.9  -83.0  -82.9  -83.0  TYPE (Circle a)  (BTEX)  HCID) (8081)	#DIV/0! pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (6	DTW (ft)	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.4  10.4  10.4  10.4  10.4  10.4  (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid	Cond. (uS/cm)  215.2  214.8  214.7  214.7  214.9  NALYSIS AI  0) (8020) (N  I) (NWTPH-  dictivity) (TDd  C) (Total PO-  de) (WAD Cy	D.O. (mg/L)  0.44  0.49  0.46  0.45  0.46  LLOWED PP  WTPH-G) ( D) (NWTPH S) (TSS) (E 4) (Total Kie (ranide) (Free	pH  6.40 6.40 6.40 6.40 6.40 CR BOTTLE (NWTPH-Gx) I-Dx) (TPH-BOD) (Turbicolahl Nitroger Cyanide)	ORP (mV)  -83.1  -82.9  -83.0  -82.9  -83.0  TYPE (Circle a) (BTEX)  HCID) (8081) (dity) (Alkalinity and (NH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Green (HCO3/CO3) (MCO3)	non-standard a	malysis below) WA  WA  WA  ON WA    ON WA    ON WA    ON WA    ON WA	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.4  10.4  10.4  10.4  10.4  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  215.2  214.8  214.7  214.9  NALYSIS AI  O) (8020) (NI  H) (NWTPH-  letivity) (TDi  C) (Total PO-  le) (WAD Cy  ) (As) (Sb) (	D.O. (mg/L)  0.44  0.49  0.46  0.45  0.46  LLOWED PF  WYPH-G) ( D) (NWTPH S) (TSS) (E 4) (Total Kie //anide) (Free Ba) (Be) (Ca	pH  6.40 6.40 6.40 6.40 6.40 ER BOTTLE (NWTPH-GX) I-Dx) (TPH-GOD) (Turbio dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -83.1  -82.9  -83.0  -82.9  -83.0  TYPE (Circle a)  (BTEX)  HCID) (8081)  dity) (Alkalinity  (I) (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Green (HCO3/CO3) (Oil (MO2))	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   ON ONE OF THE CONTRACT OF T	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.4  10.4  10.4  10.4  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm)  215.2  214.8  214.7  214.9  NALYSIS AI  () (8020) (N  H) (NWTPH-  lectivity) (TD:  (C) (Total PO-  le) (WAD Cy  () (As) (Sb) (  etals) (As) (Sb) (	D.O. (mg/L)  0.44  0.49  0.46  0.45  0.46  LLOWED PF  WYPH-G) ( D) (NWTPH S) (TSS) (E 4) (Total Kie //anide) (Free Ba) (Be) (Ca	pH  6.40 6.40 6.40 6.40 6.40 ER BOTTLE (NWTPH-GX) I-Dx) (TPH-GOD) (Turbio dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -83.1  -82.9  -83.0  -82.9  -83.0  TYPE (Circle a)  (BTEX)  HCID) (8081)  dity) (Alkalinity  (I) (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Green (HCO3/CO3) (Oil (MO2))	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   ON ONE OF THE CONTRACT OF T	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.4  10.4  10.4  10.4  10.4  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  215.2  214.8  214.7  214.7  214.9  NALYSIS AI (0) (8020) (NI) (NWTPH-activity) (TD: (C) (Total PO-le) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.44  0.49  0.46  0.45  0.46  LLOWED PENTTH-G) (In the content of th	pH  6.40 6.40 6.40 6.40 6.40 ER BOTTLE (NWTPH-GX) I-Dx) (TPH-GOD) (Turbio dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -83.1  -82.9  -83.0  -82.9  -83.0  TYPE (Circle a)  (BTEX)  HCID) (8081)  dity) (Alkalinity  (I) (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Green (HCO3/CO3) (Oil (MO2))	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   ON ONE OF THE CONTRACT OF T	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.4  10.4  10.4  10.4  10.4  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  215.2  214.8  214.7  214.9  NALYSIS AI  () (8020) (N  H) (NWTPH-  lectivity) (TD:  (C) (Total PO-  le) (WAD Cy  () (As) (Sb) (  etals) (As) (Sb) (	D.O. (mg/L)  0.44  0.49  0.46  0.45  0.46  LLOWED PENTTH-G) (In the content of th	pH  6.40 6.40 6.40 6.40 6.40 ER BOTTLE (NWTPH-GX) I-Dx) (TPH-GOD) (Turbio dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -83.1  -82.9  -83.0  -82.9  -83.0  TYPE (Circle a)  (BTEX)  HCID) (8081)  dity) (Alkalinity  (I) (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Green (HCO3/CO3) (Oil (MO2))	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   ON ONE OF THE CONTRACT OF T	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.4  10.4  10.4  10.4  10.4  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  215.2  214.8  214.7  214.7  214.9  NALYSIS AI (0) (8020) (NI) (NWTPH-activity) (TD: (C) (Total PO-le) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.44  0.49  0.46  0.45  0.46  LLOWED PENTTH-G) (In the content of th	pH  6.40 6.40 6.40 6.40 6.40 ER BOTTLE (NWTPH-GX) I-Dx) (TPH-GOD) (Turbio dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -83.1  -82.9  -83.0  -82.9  -83.0  TYPE (Circle a)  (BTEX)  HCID) (8081)  dity) (Alkalinity  (I) (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Green (HCO3/CO3) (Oil (MO2))	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   ON ONE OF THE CONTRACT OF T	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.4  10.4  10.4  10.4  10.4  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  215.2  214.8  214.7  214.7  214.9  NALYSIS AI (0) (8020) (NI) (NWTPH-activity) (TD: (C) (Total PO-le) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.44  0.49  0.46  0.45  0.46  LLOWED PENTTH-G) (In the content of th	pH  6.40 6.40 6.40 6.40 6.40 ER BOTTLE (NWTPH-GX) I-Dx) (TPH-GOD) (Turbio dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -83.1  -82.9  -83.0  -82.9  -83.0  TYPE (Circle a)  (BTEX)  HCID) (8081)  dity) (Alkalinity  (I) (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Green (HCO3/CO3) (Oil (MO2))	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   ON ONE OF THE CONTRACT OF T	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.4  10.4  10.4  10.4  10.4  TYPICAL A (8260) (8010 (8270) (PAH (PH) (Condu (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  215.2  214.8  214.7  214.7  214.9  NALYSIS AI (0) (8020) (NI) (NWTPH-activity) (TD: (C) (Total PO-le) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.44  0.49  0.46  0.45  0.46  LLOWED PENTTH-G) (In the content of th	pH  6.40 6.40 6.40 6.40 6.40 ER BOTTLE (NWTPH-GX) I-Dx) (TPH-GOD) (Turbio dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -83.1  -82.9  -83.0  -82.9  -83.0  TYPE (Circle a)  (BTEX)  HCID) (8081)  dity) (Alkalinity  (I) (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Green (HCO3/CO3) (Oil (MO2))	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   ON ONE OF THE CONTRACT OF T	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.4  10.4  10.4  10.4  10.4  TYPICAL A (8260) (8010 (8270) (PAH (PH) (Condu (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  215.2  214.8  214.7  214.7  214.9  NALYSIS AI (0) (8020) (NI) (NWTPH-activity) (TD: (C) (Total PO-le) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.44  0.49  0.46  0.45  0.46  LLOWED PENTTH-G) (In the content of th	pH  6.40 6.40 6.40 6.40 6.40 ER BOTTLE (NWTPH-GX) I-Dx) (TPH-GOD) (Turbio dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -83.1  -82.9  -83.0  -82.9  -83.0  TYPE (Circle a)  (BTEX)  HCID) (8081)  dity) (Alkalinity  (I) (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Green (HCO3/CO3) (Oil (MO2))	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   ON ONE OF THE CONTRACT OF T	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  10.4  10.4  10.4  10.4  10.4  TYPICAL A (8260) (8010 (8270) (PAH (PH) (Condu (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  215.2  214.8  214.7  214.7  214.9  NALYSIS AI (0) (8020) (NI) (NWTPH-activity) (TD: (C) (Total PO-le) (WAD Cy) (As) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.44  0.49  0.46  0.45  0.46  LLOWED PENTTH-G) (In the content of th	pH  6.40 6.40 6.40 6.40 6.40 ER BOTTLE (NWTPH-GX) I-Dx) (TPH-GOD) (Turbio dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -83.1  -82.9  -83.0  -82.9  -83.0  TYPE (Circle a)  (BTEX)  HCID) (8081)  dity) (Alkalinity  (I) (NH3) (NO3)  (Cr) (Cu) (Fe)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & Green (HCO3/CO3) (Oil (MO2))	non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   ON ONE OF THE CONTRACT OF T	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Nam	ie:	Boeing Rent	ion		Project Number	r:	0025217.099.0	99	
Event:		Feb. 2021			Date/Time:	2/15/2021@	1446		
Sample Nun	nber:	RGW244S-	210215		Weather:	CLOUDY			
Landau Rep	resentative:	JAN							
WATERIES	VEL/WELL/PU	IDCE DATA							
Well Condition		Secure (YES)	\	Damaged (N	(0)	Dogoribo	FLUSHMOUN	IT	
		` ′		•	,		FLUSHMOUN		
DTW Before		5.33	Time:		Flow through cel			GW Meter No.(s	
		2/15/2021 @	1423	End Purge:		2/15/2021 @	_	Gallons Purged:	0.2
Purge water d	lisposed to:		55-gal Drum	Ш	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
	U					lings within the fo	U	>/= 1 flow	
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1426	12.7	426.0	0.72	6.30	-56.6		5.35	·	
1429	11.0	406.3	0.94	6.28	-65.4		5.35		
1432	9.5	384.8	1.09	6.21	-68.3		5.35		
					-		3.33		
1435	9.8	390.0	1.13	6.18	-67.6				
1438	9.4	380.9	1.15	6.15	-68.0				
1441									
1443									
1773		<del></del> .							
	LLECTION I		D. II						
Sample Colle	cted With:		Bailer	_		DED. BLADDER		_	
Made of:		Stainless Stee	el L	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proceed	dure:	Alconox Was	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerica	al Order)	Other							
Sample Descr	ription (color,	turbidity, odor,	, sheen, etc.):	NO COLOR	, LOW TURB, SI	LIGHT ODOR, NO	SHEEN.		
Sample Desci	ription (color,	turbidity, odor,	, sheen, etc.):	NO COLOR	, LOW TURB, SI	LIGHT ODOR, NO	SHEEN.		
Sample Descr Replicate	Temp	Cond.	D.O.	NO COLOR	ORP	Turbidity	DTW	Ferrous iron	Comments/
								Ferrous iron (Fe II)	Comments/ Observations
	Temp	Cond.	D.O.		ORP	Turbidity	DTW		
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW		
Replicate  1 2	Temp (°F/°C) 9.4	Cond. (uS/cm) 380.8	D.O. (mg/L) 1.17	<b>pH</b> 6.15 6.14	ORP (mV) -67.8	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 9.4 9.4	Cond. (uS/cm) 380.8 380.8 380.7	D.O. (mg/L) 1.17 1.16	<b>pH</b> 6.15 6.14 6.15	ORP (mV) -67.8 -68.1	Turbidity	DTW		
Replicate  1 2	Temp (°F/°C) 9.4	Cond. (uS/cm) 380.8	D.O. (mg/L) 1.17	<b>pH</b> 6.15 6.14	ORP (mV) -67.8	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 9.4 9.4	Cond. (uS/cm) 380.8 380.8 380.7	D.O. (mg/L) 1.17 1.16	<b>pH</b> 6.15 6.14 6.15	ORP (mV) -67.8 -68.1	Turbidity	DTW		
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.4 9.4 9.4 9.4	Cond. (uS/cm) 380.8 380.8 380.7 380.7 380.8	D.O. (mg/L) 1.17 1.16 1.16 1.17	6.15 6.14 6.15 6.14 6.15	ORP (mV) -67.8 -68.1 -68.2 -68.1	Turbidity (NTU)  #DIV/0!	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.4 9.4 9.4 9.4 9.4 TYPICAL A	Cond. (uS/cm) 380.8 380.8 380.7 380.7 380.8	D.O. (mg/L) 1.17 1.16 1.16 1.17 1.17	6.15 6.14 6.15 6.14 6.15 6.18 6.18	ORP (mV) -67.8 -68.1 -68.2 -68.1 -68.1	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.4 9.4 9.4 9.4 9.4 17YPICAL A (8260) (8010	Cond. (uS/cm) 380.8 380.8 380.7 380.7 380.8 NALYSIS AL 0) (8020) (N	D.O. (mg/L)  1.17  1.16  1.16  1.17  1.17  LOWED PF	6.15 6.14 6.15 6.14 6.15 6.18 REPORTLE	ORP (mV) -67.8 -68.1 -68.2 -68.1 -70 (Circle apple) (BTEX)	Turbidity (NTU)  #DIV/0!	DTW (ft)	nalysis below)	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.4 9.4 9.4 9.4 7YPICAL A (8260) (8010) (8270) (PAH	Cond. (uS/cm) 380.8 380.8 380.7 380.7 380.8 NALYSIS AL 0) (8020) (N	D.O. (mg/L)  1.17  1.16  1.17  1.17  1.17  1.17  1.17  LOWED PF  WTPH-G) ( D) (NWTPH	6.15 6.14 6.15 6.14 6.15 ER BOTTLE NWTPH-GX	ORP (mV)  -67.8  -68.1  -68.1  -68.1  TYPE (Circle approximate) (BTEX)  HCID) (8081) (	#DIV/0!	DTW (ft)  non-standard a	nalysis below) WA  WA  WA	Observations
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.4  9.4  9.4  9.4  9.4  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu	Cond. (uS/cm)  380.8  380.8  380.7  380.7  380.8  NALYSIS AL (b) (8020) (N (c) (NWTPH-Inctivity) (TDS)	D.O. (mg/L)  1.17  1.16  1.17  1.17  1.17  1.17  1.17  1.17  LOWED PF WTPH-G) (NWTPH S) (TSS) (E	6.15 6.14 6.15 6.14 6.15 CR BOTTLE NWTPH-Gx I-Dx) (TPH-GOD) (Turbic	ORP (mV)  -67.8  -68.1  -68.1  -68.1  TYPE (Circle ap (BTEX))  HCID) (8081) (dity) (Alkalinity)	#DIV/0!  #DIV/0!  pplicable or write to the second	DTW (ft)  non-standard a	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.4  9.4  9.4  9.4  7.4  9.4  1.4  9.4  1.5  1.6  1.6  1.6  1.6  1.6  1.6  1.6	Cond. (uS/cm)  380.8  380.8  380.7  380.7  380.8  NALYSIS AL (D) (8020) (N (I) (NWTPH-Inctivity) (TDS) (C) (Total PO4)	D.O. (mg/L)  1.17  1.16  1.16  1.17  1.17  LOWED PF WTPH-G) ( D) (NWTPH G) (TSS) (E	6.15 6.14 6.15 6.14 6.15 CR BOTTLE NWTPH-Gx I-Dx) (TPH- GOD) (Turbid dahl Nitroger	ORP (mV)  -67.8  -68.1  -68.1  -68.1  TYPE (Circle approximate) (BTEX)  HCID) (8081) (	#DIV/0!  #DIV/0!  pplicable or write to the second	DTW (ft)  non-standard a	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.4  9.4  9.4  9.4  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (Too	Cond. (uS/cm)  380.8  380.7  380.7  380.7  380.8  NALYSIS AL (D) (8020) (N (I) (NWTPH-Inctivity) (TDS) (C) (Total PO4) (de) (WAD Cy	D.O. (mg/L)  1.17  1.16  1.16  1.17  1.17  LOWED PF WTPH-G) (D) (NWTPH-G) (TSS) (ES) (TSS) (ES) (TSS) (ES) (TSS) (ES) (TSS) (T	pH  6.15  6.14  6.15  6.14  6.15  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH- BOD) (Turbic dahl Nitroger  Cyanide)	ORP (mV)  -67.8  -68.1  -68.2  -68.1  -68.1  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity)  h) (NH3) (NO3/	#DIV/0!  #DIV/0!  pplicable or write in the second	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	malysis below) WA  WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.4  9.4  9.4  9.4  TYPICAL A (8260) (8016 (8270) (PAH (PH) (Condu (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  380.8  380.8  380.7  380.7  380.8  NALYSIS AL (b) (8020) (N (c) (NWTPH-Inctivity) (TDS) (c) (Total PO4) (de) (WAD Cy) (de) (As) (Sb) (I	D.O. (mg/L)  1.17  1.16  1.16  1.17  1.17  LOWED PF WTPH-G) (D) (NWTPH-G) (TSS) (ES) (TSS) (ES) (TSS) (ES) (TSS) (ES) (Total Kiewanide) (Free Ba) (Be) (Ca)	pH  6.15  6.14  6.15  6.14  6.15  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH- BOD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -67.8  -68.1  -68.2  -68.1  -68.1  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  pplicable or write in the interpretation of the	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.4  9.4  9.4  9.4  9.4  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 380.8 380.8 380.7 380.7 380.8  NALYSIS AL (b) (8020) (N (c) (NWTPH-Interivity) (TDS (c) (Total PO4 (de) (WAD Cy (de) (As) (Sb) (Interior) (Sb) (	D.O. (mg/L)  1.17  1.16  1.16  1.17  1.17  LOWED PF WTPH-G) (D) (NWTPH-G) (TSS) (ES) (TSS) (ES) (TSS) (ES) (TSS) (ES) (Total Kiewanide) (Free Ba) (Be) (Ca)	pH  6.15  6.14  6.15  6.14  6.15  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH- BOD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -67.8  -68.1  -68.2  -68.1  -68.1  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  pplicable or write in the interpretation of the	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  Graph  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.4  9.4  9.4  9.4  74  9.4  PH) (Conduction (COD) (Total Cyanid (Total Metals (Dissolved Metals (Dissolve	Cond. (uS/cm)  380.8  380.8  380.7  380.7  380.8  NALYSIS AL (D) (8020) (N (I) (NWTPH-Intervity) (TDS (C) (Total PO4 (le) (WAD Cy) () (As) (Sb) (I () (etals) (As) (Sb () g short list)	D.O. (mg/L)  1.17  1.16  1.16  1.17  1.17  LOWED PE WTPH-G) ( D) (NWTPH-G) ( E) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH  6.15  6.14  6.15  6.14  6.15  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH- BOD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -67.8  -68.1  -68.2  -68.1  -68.1  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  pplicable or write in the interpretation of the	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  Graph  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.4  9.4  9.4  9.4  74  9.4  PH) (Conduction (COD) (Total Cyanid (Total Metals (Dissolved Metals (Dissolve	Cond. (uS/cm) 380.8 380.8 380.7 380.7 380.8  NALYSIS AL (b) (8020) (N (c) (NWTPH-Interivity) (TDS (c) (Total PO4 (de) (WAD Cy (de) (As) (Sb) (Interior) (Sb) (	D.O. (mg/L)  1.17  1.16  1.16  1.17  1.17  LOWED PE WTPH-G) ( D) (NWTPH-G) ( E) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH  6.15  6.14  6.15  6.14  6.15  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH- BOD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -67.8  -68.1  -68.2  -68.1  -68.1  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  pplicable or write in the interpretation of the	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  Graph  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.4  9.4  9.4  9.4  74  9.4  PH) (Conduction (COD) (Total Cyanid (Total Metals (Dissolved Metals (Dissolve	Cond. (uS/cm)  380.8  380.8  380.7  380.7  380.8  NALYSIS AL (D) (8020) (N (I) (NWTPH-Intervity) (TDS (C) (Total PO4 (le) (WAD Cy) () (As) (Sb) (I () (etals) (As) (Sb () g short list)	D.O. (mg/L)  1.17  1.16  1.16  1.17  1.17  LOWED PE WTPH-G) ( D) (NWTPH-G) ( E) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH  6.15  6.14  6.15  6.14  6.15  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH- BOD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -67.8  -68.1  -68.2  -68.1  -68.1  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  pplicable or write in the interpretation of the	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  Graph  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C) 9.4 9.4 9.4 9.4 9.4 17YPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  380.8  380.8  380.7  380.7  380.8  NALYSIS AL (D) (8020) (N (I) (NWTPH-Intervity) (TDS (C) (Total PO4 (le) (WAD Cy) () (As) (Sb) (I () (etals) (As) (Sb () g short list)	D.O. (mg/L)  1.17  1.16  1.16  1.17  1.17  LOWED PE WTPH-G) ( D) (NWTPH-G) ( E) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH  6.15  6.14  6.15  6.14  6.15  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH- BOD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -67.8  -68.1  -68.2  -68.1  -68.1  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  pplicable or write in the interpretation of the	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  Graph  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C)  9.4  9.4  9.4  9.4  74  9.4  PH) (Conduction (COD) (Total Cyanid (Total Metals (Dissolved Metals (Dissolve	Cond. (uS/cm)  380.8  380.8  380.7  380.7  380.8  NALYSIS AL (D) (8020) (N (I) (NWTPH-Intervity) (TDS (C) (Total PO4 (le) (WAD Cy) () (As) (Sb) (I () (etals) (As) (Sb () g short list)	D.O. (mg/L)  1.17  1.16  1.16  1.17  1.17  LOWED PE WTPH-G) ( D) (NWTPH-G) ( E) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH  6.15  6.14  6.15  6.14  6.15  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH- BOD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -67.8  -68.1  -68.2  -68.1  -68.1  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  pplicable or write in the interpretation of the	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C) 9.4 9.4 9.4 9.4 9.4 17YPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  380.8  380.8  380.7  380.7  380.8  NALYSIS AL (D) (8020) (N (I) (NWTPH-Intervity) (TDS (C) (Total PO4 (le) (WAD Cy) () (As) (Sb) (I () (etals) (As) (Sb () g short list)	D.O. (mg/L)  1.17  1.16  1.16  1.17  1.17  LOWED PE WTPH-G) ( D) (NWTPH-G) ( E) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH  6.15  6.14  6.15  6.14  6.15  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH- BOD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -67.8  -68.1  -68.2  -68.1  -68.1  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  pplicable or write in the interpretation of the	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C) 9.4 9.4 9.4 9.4 9.4 17YPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  380.8  380.8  380.7  380.7  380.8  NALYSIS AL (D) (8020) (N (I) (NWTPH-Intervity) (TDS (C) (Total PO4 (le) (WAD Cy) () (As) (Sb) (I () (etals) (As) (Sb () g short list)	D.O. (mg/L)  1.17  1.16  1.16  1.17  1.17  LOWED PE WTPH-G) ( D) (NWTPH-G) ( E) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH  6.15  6.14  6.15  6.14  6.15  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH- BOD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -67.8  -68.1  -68.2  -68.1  -68.1  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  pplicable or write in the interpretation of the	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 5	Temp (°F/°C) 9.4 9.4 9.4 9.4 9.4 17YPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  380.8  380.8  380.7  380.7  380.8  NALYSIS AL (D) (8020) (N (I) (NWTPH-Intervity) (TDS (C) (Total PO4 (le) (WAD Cy) () (As) (Sb) (I () (etals) (As) (Sb () g short list)	D.O. (mg/L)  1.17  1.16  1.16  1.17  1.17  LOWED PE WTPH-G) ( D) (NWTPH-G) ( E) (Total Kie anide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	pH  6.15  6.14  6.15  6.14  6.15  ER BOTTLE  NWTPH-Gx  I-Dx) (TPH- BOD) (Turbidahl Nitroger  Cyanide)  a) (Cd) (Co)	ORP (mV)  -67.8  -68.1  -68.2  -68.1  -68.1  TYPE (Circle ago) (BTEX)  HCID) (8081) (dity) (Alkalinity) (h) (NH3) (NO3/	#DIV/0!  #DIV/0!  pplicable or write in the interpretation of the	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  malysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR



Project Name	e:	Boeing Ren	ton		Project Numbe	r <u>:</u>	0025217.099.0	99	
Event:		Feb. 2021			Date/Time:	2/ 16/2021@	1040		
Sample Num	ıber:	RGW247S-	210216		Weather:	OVERCAST, 40	)S		
Landau Repr	esentative:	BXM							
WATER LEV	EL/WELL/PU	JRGE DATA							
Well Conditio	n:	Secure (YES	)	Damaged (N	O)	Describe:	FLUSH		
DTW Before I	Purging (ft)	3.86	Time:	1014	Flow through ce	ll vol.		GW Meter No.(s	SLOPE 8
Begin Purge:	Date/Time:	2/ 16 /2021	1016	End Purge:	Date/Time:	2/ 16 /2021 @	1038	Gallons Purged:	<1
Purge water di	isposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
	Т	Cand	D.O.	11	ODD	Tb.: d:4	DTW	Internal Druge	Commontal
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%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1019	10.6	353.2	0.46	6.33	2.5		3.89		
1022	8.9	331.8	0.52	6.22	-4.4		3.91		
1025	8.3	323.8	0.57	6.31	-7.3		3.91		
1028	8.1	316.7	0.61	6.33	-10.9				
1031	8.0	314.8	0.63	6.33	-13.1				
1034	8.0	313.2	0.67	6.34	-15.2				
SAMPLE CO			T !!						
Sample Collec	eted With:	_	Bailer		_ ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	DED BLADDER		<b>—</b> • · · ·	
Made of:		Stainless Ste	e			Polyethylene	Other	Dedicated	
			_	PVC	Teflon				
Decon Proced		Alconox Wa	_	Tap Rinse	DI Water	Dedicated		_	
Decon Proced	l Order)	Alconox Wa	sh 🗍	Tap Rinse	DI Water	Dedicated	-	_	
Decon Proced	l Order)	Alconox Wa	sh 🗍	Tap Rinse	DI Water		-	_	CENT
Decon Proced (By Numerical Sample Descri	l Order)	Alconox Wa	sh 🗍	Tap Rinse	DI Water	Dedicated	-	_	CENT  Comments/
Decon Proced	l Order)	Alconox Was	sh	Tap Rinse  CLEAR, SL  NO ODOR,	DI Water  IGHT YELLOW  NO SHEEN	Dedicated	OLIDS, SLIGH	TLY EFFERVES	
Decon Proced (By Numerical Sample Descri	l Order) iption (color, t	Alconox War Other turbidity, odor	sh D.O.	Tap Rinse  CLEAR, SL  NO ODOR,	DI Water  IGHT YELLOW  NO SHEEN  ORP	Dedicated  TINT, YELLOW S  Turbidity	OLIDS, SLIGH	TLY EFFERVES  Ferrous iron	Comments/
Decon Proced (By Numerical Sample Descri	l Order) iption (color, t	Alconox Was Other curbidity, odor  Cond. (uS/cm)	D.O. (mg/L)	Tap Rinse  CLEAR, SL  NO ODOR,  pH	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)	Dedicated  TINT, YELLOW S  Turbidity	OLIDS, SLIGH	TLY EFFERVES  Ferrous iron	Comments/
Decon Proced (By Numerical Sample Descri Replicate  1 2	l Order) iption (color, to the color) Temp (°F/°C) 8.0 8.0	Alconox War Other Curbidity, odor  Cond. (uS/cm) 313.1 313.0	D.O. (mg/L)  0.67	CLEAR, SL NO ODOR, pH  6.34  6.33	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)  -15.5  -15.7	Dedicated  TINT, YELLOW S  Turbidity	OLIDS, SLIGH	TLY EFFERVES  Ferrous iron	Comments/
Decon Proced (By Numerical Sample Descri Replicate  1 2 3	l Order) iption (color, 1  Temp (°F/°C)  8.0  8.0  8.0	Alconox War Other Cond. (uS/cm) 313.1 313.0 312.5	D.O. (mg/L)  0.67  0.69	CLEAR, SL NO ODOR, pH  6.34  6.33	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)  -15.5  -15.7	Dedicated  TINT, YELLOW S  Turbidity	OLIDS, SLIGH	TLY EFFERVES  Ferrous iron	Comments/
Decon Procedic (By Numerical Sample Described Replicate 1 2 3 4	Order	Cond. (uS/cm) 313.1 313.0 312.5	D.O. (mg/L)  0.67  0.69  0.70	CLEAR, SL  NO ODOR,  pH  6.34  6.33  6.31  6.33	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)  -15.5  -15.7  -15.9  -16.1	Dedicated  TINT, YELLOW S  Turbidity	OLIDS, SLIGH	TLY EFFERVES  Ferrous iron	Comments/
Decon Proced (By Numerical Sample Descri Replicate  1 2 3	l Order) iption (color, 1  Temp (°F/°C)  8.0  8.0  8.0	Alconox War Other Cond. (uS/cm) 313.1 313.0 312.5	D.O. (mg/L)  0.67  0.69	CLEAR, SL NO ODOR, pH  6.34  6.33	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)  -15.5  -15.7	Dedicated  TINT, YELLOW S  Turbidity	OLIDS, SLIGH	TLY EFFERVES  Ferrous iron	Comments/
Decon Proced (By Numerical Sample Descri Replicate  1 2 3 4 Average:	Order	Alconox War Other Cond. (uS/cm) 313.1 313.0 312.5 312.8	D.O. (mg/L)  0.67  0.69  0.68	CLEAR, SL NO ODOR, <b>pH</b> 6.34  6.33  6.31  6.33	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)  -15.5  -15.7  -16.1  -15.8	Dedicated  TINT, YELLOW S  Turbidity	OLIDS, SLIGH	Ferrous iron (Fe II)	Comments/
Decon Proced (By Numerical Sample Descri Replicate  1 2 3 4 Average:	Order	Alconox War Other curbidity, odor  Cond. (uS/cm)  313.1  313.0  312.5  312.5  312.8	D.O. (mg/L)  0.67  0.69  0.68  LOWED PE	CLEAR, SL NO ODOR, pH  6.34 6.33 6.33 6.33 6.33	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)  -15.5  -15.7  -15.9  -16.1  -15.8  TYPE (Circle a)	Dedicated  TINT, YELLOW S  Turbidity  (NTU)	OLIDS, SLIGH	Ferrous iron (Fe II)  nalysis below)	Comments/ Observations  OR
Decon Proced (By Numerical Sample Descri Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	Alconox War Other Cond. (uS/cm) 313.1 313.0 312.5 312.8  NALYSIS AI () (8020) (N	D.O. (mg/L)  0.67  0.69  0.70  0.68  LOWED PF	CLEAR, SL NO ODOR, pH  6.34  6.33  6.31  6.33  6.33  ER BOTTLE NWTPH-GX; PH-Dx) (TPI	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)  -15.5  -15.7  -15.9  -16.1  -15.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)	Dedicated  TINT, YELLOW S  Turbidity (NTU)  pplicable or write to the second se	OLIDS, SLIGHT  DTW  (ft)  non-standard and rease)	Ferrous iron (Fe II)  malysis below)  WA  WA  WA	Comments/ Observations
Decon Proced (By Numerical Sample Descri Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.0  8.0  8.0  8.0  8.0  (8260) (8010) (8270D) (PA) (pH) (Condu	Alconox War Other Cond. (uS/cm) 313.1 313.0 312.5 312.8 NALYSIS AI 0) (8020) (N LH) (NWTPH ctivity) (TD:	D.O. (mg/L)  0.67  0.69  0.70  0.68  LLOWED PERMYPH-G) (M-D) (NWTES) (TSS) (B	CLEAR, SL NO ODOR, pH  6.34 6.33 6.31 6.33 6.33 6.33 ER BOTTLE NWTPH-Gx, PH-Dx) (TPH-Dx) (TPH-Dx) (TPH-DX) (TPH-DX)	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)  -15.5  -15.7  -15.9  -16.1  -15.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity	Dedicated  TINT, YELLOW S  Turbidity (NTU)  pplicable or write 1  (8141) (Oil & Grown of the Gro	OLIDS, SLIGHT  DTW  (ft)  non-standard and rease)	Ferrous iron (Fe II)  malysis below)  WA  WA  WA	Comments/ Observations  OR
Decon Proced (By Numerical Sample Description Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.0  8.0  8.0  8.0  8.0  (8260) (8010) (8270D) (PA(pH) (Conduction) (COD) (TOO)	Alconox War Other curbidity, odor  Cond. (uS/cm)  313.1  313.0  312.5  312.5  312.8  NALYSIS AI (D) (8020) (N CH) (NWTPI citivity) (TD: (C) (Total PO-	D.O. (mg/L)  0.67  0.69  0.70  0.68  LOWED PERMYTPH-G) (MI-D) (NWTPH-G) (MI-D) (NWTPH-G) (MI-D) (Total Kie	CLEAR, SL NO ODOR, pH  6.34 6.33 6.33 6.33 6.33 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPF BOD) (Turbiodahl Nitroger	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)  -15.5  -15.7  -15.9  -16.1  -15.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)	Dedicated  TINT, YELLOW S  Turbidity (NTU)  pplicable or write 1  (8141) (Oil & Grown of the Gro	OLIDS, SLIGHT  DTW  (ft)  non-standard and rease)	Ferrous iron (Fe II)  malysis below)  WA  WA  WA	Comments/ Observations  OR
Decon Proced (By Numerical Sample Descri Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.0  8.0  8.0  8.0  8.0  (8260) (8010) (8270D) (PA(pH) (Conduction (COD) (TOO) (Total Cyanidal (Color, 1))	Alconox War Other curbidity, odor  Cond. (uS/cm)  313.1  313.0  312.5  312.5  312.8  NALYSIS AI (D) (8020) (N  H) (NWTPI citivity) (TD: (C) (Total PO- ce) (WAD Cy	D.O. (mg/L)  0.67  0.69  0.70  0.68  LOWED PERMITPH-G) (MI-D) (NWTPH-G) (MI-D) (NWTPH-G) (MI-D) (Total Kiewanide) (Freewanide) (Freewanide) (Freewanide) (Freewanide) (Freewanide)	CLEAR, SL NO ODOR, pH  6.34 6.33 6.33 6.33 6.33 CR BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Gx) ddahl Nitroger	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)  -15.5  -15.7  -15.9  -16.1  -15.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity (a) (NH3) (NO3)	Dedicated  TINT, YELLOW S  Turbidity (NTU)  pplicable or write to the second se	OLIDS, SLIGHT  DTW  (ft)  non-standard at a seriese)  Cl) (SO4) (NO	Ferrous iron (Fe II)  malysis below)  WA  WA  WA  O  WA   WA	Comments/ Observations  OR  OR  OR  OR
Decon Proced (By Numerical Sample Description Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.0  8.0  8.0  8.0  8.0  (8260) (8010) (8270D) (PA(PH) (Conduction (COD)) (Total Cyanida (Total Metals)	Alconox War Other curbidity, odor  Cond. (uS/cm)  313.1  313.0  312.5  312.5  312.8  NALYSIS AI O) (8020) (N  JH) (NWTPH ctivity) (TDtal PO- ce) (WAD Cy o) (As) (Sb) (	D.O. (mg/L)  0.67  0.69  0.70  0.68  LOWED PE (WTPH-G) (NWTF S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	CLEAR, SL NO ODOR, pH  6.34  6.33  6.31  6.33  6.33  ER BOTTLE NWTPH-Gx, PH-Dx) (TPH-GX) (TPH	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)  -15.5  -15.7  -15.9  -16.1  -15.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity) (NH3) (NO3)  (Cr) (Cu) (Fe)	Dedicated  TINT, YELLOW S  Turbidity (NTU)  oplicable or write in the second of the se	OLIDS, SLIGH  DTW  (ft)  mon-standard and rease)  Cl) (SO4) (NO	Ferrous iron (Fe II)  malysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Decon Proced (By Numerical Sample Description Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.0  8.0  8.0  8.0  8.0  (8260) (8010) (8270D) (PA(PH) (Conduction (COD)) (Total Cyanida (Total Metals)	Alconox War Other Cond. (uS/cm) 313.1 313.0 312.5 312.8  NALYSIS AI O) (8020) (N H) (NWTPF ctivity) (TD: C) (Total PO- ce) (WAD Cy O) (As) (Sb) (cetals) (As) (Sb)	D.O. (mg/L)  0.67  0.69  0.70  0.68  LOWED PE (WTPH-G) (NWTF S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	CLEAR, SL NO ODOR, pH  6.34  6.33  6.31  6.33  6.33  ER BOTTLE NWTPH-Gx, PH-Dx) (TPH-GX) (TPH	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)  -15.5  -15.7  -15.9  -16.1  -15.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity) (NH3) (NO3)  (Cr) (Cu) (Fe)	Dedicated  TINT, YELLOW S  Turbidity (NTU)  oplicable or write in the second of the se	OLIDS, SLIGH  DTW  (ft)  mon-standard and rease)  Cl) (SO4) (NO	Ferrous iron (Fe II)  malysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR
Decon Proced (By Numerical Sample Description Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.0  8.0  8.0  8.0  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanid (Total Metals) (Dissolved Metals) (Dissolved Metals)	Alconox War Other Cond. (uS/cm) 313.1 313.0 312.5 312.8  NALYSIS AI O) (8020) (N H) (NWTPF ctivity) (TD: C) (Total PO- ce) (WAD Cy O) (As) (Sb) (cetals) (As) (Sb)	D.O. (mg/L)  0.67  0.69  0.70  0.68  LOWED PERMYTH-G) (NWTF S) (TSS) (Bd) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca b) (Ba) (Be) (Ca b)	CLEAR, SL NO ODOR, pH  6.34  6.33  6.31  6.33  6.33  ER BOTTLE NWTPH-Gx, PH-Dx) (TPH-GX) (TPH	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)  -15.5  -15.7  -15.9  -16.1  -15.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity) (NH3) (NO3)  (Cr) (Cu) (Fe)	Dedicated  TINT, YELLOW S  Turbidity (NTU)  oplicable or write in the second of the se	OLIDS, SLIGH  DTW  (ft)  mon-standard and rease)  Cl) (SO4) (NO	Ferrous iron (Fe II)  malysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Decon Proced (By Numerical Sample Description Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.0  8.0  8.0  8.0  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanid (Total Metals) (Dissolved Metals) (Dissolved Metals)	Alconox War Other Cond. (uS/cm) 313.1 313.0 312.5 312.5 312.8  NALYSIS AI () (8020) (N (H) (NWTPP (ctivity) (TD: (C) (Total PO- (e) (WAD Cy (das) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.67  0.69  0.70  0.68  LOWED PERMYTH-G) (NWTF S) (TSS) (Bd) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca b) (Ba) (Be) (Ca b)	CLEAR, SL NO ODOR, pH  6.34  6.33  6.31  6.33  6.33  ER BOTTLE NWTPH-Gx, PH-Dx) (TPH-GX) (TPH	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)  -15.5  -15.7  -15.9  -16.1  -15.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity) (NH3) (NO3)  (Cr) (Cu) (Fe)	Dedicated  TINT, YELLOW S  Turbidity (NTU)  oplicable or write in the second of the se	OLIDS, SLIGH  DTW  (ft)  mon-standard and rease)  Cl) (SO4) (NO	Ferrous iron (Fe II)  malysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Decon Proced (By Numerical Sample Description Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.0  8.0  8.0  8.0  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanid (Total Metals) (Dissolved Metals) (Dissolved Metals)	Alconox War Other Cond. (uS/cm) 313.1 313.0 312.5 312.5 312.8  NALYSIS AI () (8020) (N (H) (NWTPP (ctivity) (TD: (C) (Total PO- (e) (WAD Cy (das) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.67  0.69  0.70  0.68  LOWED PERMYTH-G) (NWTF S) (TSS) (Bd) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca b) (Ba) (Be) (Ca b)	CLEAR, SL NO ODOR, pH  6.34  6.33  6.31  6.33  6.33  ER BOTTLE NWTPH-Gx, PH-Dx) (TPH-GX) (TPH	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)  -15.5  -15.7  -15.9  -16.1  -15.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity) (NH3) (NO3)  (Cr) (Cu) (Fe)	Dedicated  TINT, YELLOW S  Turbidity (NTU)  oplicable or write in the second of the se	OLIDS, SLIGH  DTW  (ft)  mon-standard and rease)  Cl) (SO4) (NO	Ferrous iron (Fe II)  malysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Decon Proced (By Numerical Sample Description Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.0  8.0  8.0  8.0  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanid (Total Metals) (Dissolved Metals) (Dissolved Metals)	Alconox War Other Cond. (uS/cm) 313.1 313.0 312.5 312.5 312.8  NALYSIS AI () (8020) (N (H) (NWTPP (ctivity) (TD: (C) (Total PO- (e) (WAD Cy (das) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.67  0.69  0.70  0.68  LOWED PERMYTH-G) (NWTF S) (TSS) (Bd) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca b) (Ba) (Be) (Ca b)	CLEAR, SL NO ODOR, pH  6.34  6.33  6.31  6.33  6.33  ER BOTTLE NWTPH-Gx, PH-Dx) (TPH-GX) (TPH	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)  -15.5  -15.7  -15.9  -16.1  -15.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity) (NH3) (NO3)  (Cr) (Cu) (Fe)	Dedicated  TINT, YELLOW S  Turbidity (NTU)  oplicable or write in the second of the se	OLIDS, SLIGH  DTW  (ft)  mon-standard and rease)  Cl) (SO4) (NO	Ferrous iron (Fe II)  malysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Decon Proced (By Numerical Sample Descri Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.0  8.0  8.0  8.0  8.0  8.0  (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Alconox War Other Cond. (uS/cm) 313.1 313.0 312.5 312.5 312.8  NALYSIS AI () (8020) (N (H) (NWTPP (ctivity) (TD: (C) (Total PO- (e) (WAD Cy (das) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.67  0.69  0.70  0.68  LOWED PERMYTH-G) (NWTF S) (TSS) (Bd) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca b) (Ba) (Be) (Ca b)	CLEAR, SL NO ODOR, pH  6.34  6.33  6.31  6.33  6.33  ER BOTTLE NWTPH-Gx, PH-Dx) (TPH-GX) (TPH	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)  -15.5  -15.7  -15.9  -16.1  -15.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity) (NH3) (NO3)  (Cr) (Cu) (Fe)	Dedicated  TINT, YELLOW S  Turbidity (NTU)  oplicable or write in the second of the se	OLIDS, SLIGH  DTW  (ft)  mon-standard and rease)  Cl) (SO4) (NO	Ferrous iron (Fe II)  malysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Decon Proced (By Numerical Sample Description Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.0  8.0  8.0  8.0  8.0  8.0  (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Alconox War Other Cond. (uS/cm) 313.1 313.0 312.5 312.5 312.8  NALYSIS AI () (8020) (N (H) (NWTPP (ctivity) (TD: (C) (Total PO- (e) (WAD Cy (das) (Sb) (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.67  0.69  0.70  0.68  LOWED PERMYTH-G) (NWTF S) (TSS) (Bd) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca b) (Ba) (Be) (Ca b)	CLEAR, SL NO ODOR, pH  6.34  6.33  6.31  6.33  6.33  ER BOTTLE NWTPH-Gx, PH-Dx) (TPH-GX) (TPH	DI Water  IGHT YELLOW  NO SHEEN  ORP  (mV)  -15.5  -15.7  -15.9  -16.1  -15.8  TYPE (Circle a)  (BTEX)  H-HCID) (8081)  dity) (Alkalinity) (NH3) (NO3)  (Cr) (Cu) (Fe)	Dedicated  TINT, YELLOW S  Turbidity (NTU)  oplicable or write in the second of the se	OLIDS, SLIGH  DTW  (ft)  mon-standard and rease)  Cl) (SO4) (NO	Ferrous iron (Fe II)  malysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Comments/ Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Name	e:	Boeing Ren	iton		Project Number	r:	0025217.099.0	99	
Event:		Feb. 2021		_	Date/Time:	2/ 16/2021@	1005		
Sample Num	ber:	RGW248I-	210216		Weather:	OVERCAST, 40	)S		
Landau Repr	esentative:	BXM			- -				
WATER LEV	FI/WFII/PI	IRGE DATA							
Well Conditio		Secure (YES	3	Damaged (N	(0)	Describe:	FLUSH		
DTW Before I		3.79	Time:	- '	Flow through cel			GW Meter No.(s	SLOPE 8
Begin Purge:	0 0 0		937	End Purge:	_	2/ 16 /2021 @	1000	Gallons Purged:	
Purge water di		2/ 10 /2021	55-gal Drum	Ĕ	Storage Tank	Ground		SITE TREATM	
i uige water ui	isposed to.		55-gai Diuiii	- 4	Storage Talik	E Ground	Other	SHE IKEAIM	ENTSTSTEM
Т: с	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C) Purge Goal	(uS/cm) ls: Stablizatio	(mg/L) on of Paramet	ters for three	(mV)	(NTU) lings within the fo	(ft) llowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
940	10.4	402.3	0.31	6.32	18.0		3.82		
943	9.7	404.6	0.31	6.33	4.6		3.80		
946	9.3	402.0	0.35	6.33	-0.9		3.80		
949	8.4	394.3	0.47	6.31	-4.0				
953	7.9	376.6	0.56	6.32	-7.3				
956	8.1	374.2	0.52	6.33	-10.9				
959	8.3	375.6	0.53	6.33	-13.7				
SAMPLE CO	LLECTION D	DATA							
Sample Collec			Bailer		Pump/Pump Type	DED BLADDER			
Made of:		Stainless Ste	el	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	ure.	Alconox Wa	sh 🗖	Tap Rinse	DI Water	Dedicated		_	
(By Numerical			··· 山	rup remse	□ Di vuici	Dedicated			
	l Order)	Other							
. •		Other	r. sheen, etc.):	CLEAR, CO	LORLESS, TRAC	CE DARK FINES.	ORANGE SOL	IDS. SLIGHTLY	EFFERVESCENT
. •		₩	r, sheen, etc.):	CLEAR, CO		CE DARK FINES,	ORANGE SOL	IDS, SLIGHTLY	EFFERVESCENT
. •	iption (color, t	turbidity, odor	D.O.		NO SHEEN ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descri	iption (color, t	turbidity, odo		NO ODOR,	NO SHEEN				
Sample Descri	iption (color, t	turbidity, odor	D.O.	NO ODOR,	NO SHEEN ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descri	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	NO ODOR, pH	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Sample Descri	Temp (°F/°C)	Cond. (uS/cm) 375.6	D.O. (mg/L)	NO ODOR,  pH  6.34	NO SHEEN ORP (mV) -14.1	Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3	Temp (°F/°C) 8.3 8.3	Cond. (uS/cm)  375.6  375.6	D.O. (mg/L) 0.55 0.56	NO ODOR, <b>pH</b> 6.34  6.34  6.32	NO SHEEN ORP (mV) -14.1 -14.3 -14.5	Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3 4	Temp (°F/°C) 8.3 8.3 8.3	Cond. (uS/cm)  375.6  375.6  375.6	D.O. (mg/L) 0.55 0.56 0.56	NO ODOR, pH  6.34  6.34  6.32  6.33	NO SHEEN ORP (mV) -14.1 -14.3 -14.5 -14.8	Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3	Temp (°F/°C) 8.3 8.3	Cond. (uS/cm)  375.6  375.6	D.O. (mg/L) 0.55 0.56	NO ODOR, <b>pH</b> 6.34  6.34  6.32	NO SHEEN ORP (mV) -14.1 -14.3 -14.5	Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8.3 8.3 8.3 8.3 TYPICAL A	Cond. (uS/cm) 375.6 375.6 375.6 375.6	D.O. (mg/L) 0.55 0.56 0.56 0.57 0.56	NO ODOR, pH  6.34 6.34 6.32 6.33 6.33	ORP (mV)  -14.1  -14.3  -14.5  -14.8  -14.4  TYPE (Circle ap	Turbidity	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8.3 8.3 8.3 8.3 TYPICAL A (8260) (8010	Cond. (uS/cm)  375.6  375.6  375.6  375.6  375.6  NALYSIS AI	D.O. (mg/L)  0.55  0.56  0.56  0.57  0.56  LLOWED PERMYTPH-G) (	6.34 6.32 6.33 6.33 ER BOTTLE	NO SHEEN ORP (mV) -14.1 -14.3 -14.5 -14.8 -14.4 TYPE (Circle apple) (BTEX)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)  nalysis below) WA	Comments/ Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8.3 8.3 8.3 8.3 TYPICAL A (8260) (8010) (8270D) (PA	Cond. (uS/cm)  375.6  375.6  375.6  375.6  375.6  NALYSIS AI  (WWTPI	D.O. (mg/L)  0.55  0.56  0.56  0.57  0.56  LLOWED PENWTPH-G) (M-D) (NWTF	6.34 6.34 6.33 6.33 6.33 ER BOTTLE NWTPH-Gx;	NO SHEEN ORP (mV) -14.1 -14.3 -14.5 -14.8 -14.4 TYPE (Circle ap ) (BTEX) H-HCID) (8081)	Turbidity (NTU)  pplicable or write	DTW (ft)  non-standard as	Ferrous iron (Fe II)  malysis below)  WA  WA  WA	Comments/ Observations
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A  (8260) (8010  (8270D) (PA (pH) (Condu	Cond. (uS/cm)  375.6  375.6  375.6  375.6  375.6  NALYSIS AI (D) (8020) (N CH) (NWTPI	D.O. (mg/L)  0.55  0.56  0.56  0.56  LLOWED PENWTPH-G) (H-D) (NWTP	6.34 6.34 6.33 6.33 6.33 6.33 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Dx) (TPH-Dx) (TPH-Dx)	NO SHEEN ORP (mV)  -14.1  -14.3  -14.5  -14.8  -14.4  TYPE (Circle aport)  H-HCID) (8081) dity) (Alkalinity)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G	DTW (ft)  non-standard as	Ferrous iron (Fe II)  malysis below)  WA  WA  WA	Comments/ Observations  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm)  375.6  375.6  375.6  375.6  375.6  NALYSIS AI (0) (8020) (N CH) (NWTPI Cettivity) (TD	D.O. (mg/L)  0.55  0.56  0.56  0.56  0.56  LLOWED PENWTPH-G) (M-D) (NWTPH-G) (M-D)	6.34 6.34 6.33 6.33 6.33 6.33 6.37 6.39 6.39 6.31 6.31 6.31 6.32 6.33 6.33 6.33 6.33 6.33 6.33 6.33	NO SHEEN ORP (mV) -14.1 -14.3 -14.5 -14.8 -14.4 TYPE (Circle ap ) (BTEX) H-HCID) (8081)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G	DTW (ft)  non-standard as	Ferrous iron (Fe II)  malysis below)  WA  WA  WA	Comments/ Observations  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (TOO (Total Cyanid	Cond. (uS/cm)  375.6  375.6  375.6  375.6  375.6  NALYSIS AI (NWTPI (nctivity) (TD (C) (Total PO-	D.O. (mg/L)  0.55  0.56  0.56  0.56  0.56  LLOWED PE WTPH-G) (H-D) (NWTF S) (TSS) (B 4) (Total Kie	6.34 6.34 6.33 6.33 6.33 6.33 6.30 6.31 6.31 6.32 6.33 6.33 6.33 6.31 6.31 6.31 6.32 6.33 6.33 6.33 6.33 6.33 6.33 6.33	NO SHEEN  ORP (mV)  -14.1  -14.3  -14.5  -14.8  -14.4  TYPE (Circle ap ) (BTEX)  H-HCID) (8081) dity) (Alkalinity) n) (NH3) (NO3/	Turbidity (NTU)  oplicable or write  (8141) (Oil & G (HCO3/CO3) (67)	DTW (ft)  non-standard and and arease) Cl) (SO4) (NO	Ferrous iron (Fe II)  malysis below)  WA  WA  ONE WA	Comments/ Observations  OR □ OR □
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanid (Total Metals)	Cond. (uS/cm)  375.6  375.6  375.6  375.6  375.6  NALYSIS AI  O) (8020) (N  CH) (NWTPI  Inctivity) (TD  C) (Total PO-  le) (WAD Cy  ) (As) (Sb) (	D.O. (mg/L)  0.55  0.56  0.56  0.56  0.56  LLOWED PENWTPH-G) (M-D) (NWTPH-G) (M-D) (M-	6.34 6.34 6.33 6.33 6.33 6.33 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbio dahl Nitroger Cyanide) a) (Cd) (Co)	NO SHEEN ORP (mV)  -14.1  -14.3  -14.5  -14.8  -14.4  TYPE (Circle aportion (Circle aportion (Circle aportion (NH3)) (NO3/2)  (Cr) (Cu) (Fe) (Circle (Circle aportion (Circle ap	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (G (NO2)  (Pb) (Mg) (Mn) (	non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Comments/ Observations  OR □ OR □ OR □
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)	Cond. (uS/cm)  375.6  375.6  375.6  375.6  375.6  NALYSIS AI (D) (8020) (N AH) (NWTPI (nctivity) (TD (C) (Total PO- (le) (WAD C) () (As) (Sb) ((etals) (As) (Sl)	D.O. (mg/L)  0.55  0.56  0.56  0.56  0.56  LLOWED PENWTPH-G) (M-D) (NWTPH-G) (M-D) (M-	6.34 6.34 6.33 6.33 6.33 6.33 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbio dahl Nitroger Cyanide) a) (Cd) (Co)	NO SHEEN ORP (mV)  -14.1  -14.3  -14.5  -14.8  -14.4  TYPE (Circle aportion (Circle aportion (Circle aportion (NH3)) (NO3/2)  (Cr) (Cu) (Fe) (Circle (Circle aportion (Circle ap	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (G (NO2)  (Pb) (Mg) (Mn) (	non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Comments/ Observations  OR □ OR □
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  375.6  375.6  375.6  375.6  375.6  NALYSIS AI (D) (8020) (N AH) (NWTPI (nctivity) (TD (C) (Total PO- (le) (WAD C) () (As) (Sb) ((etals) (As) (Sl)	D.O. (mg/L)  0.55  0.56  0.56  0.57  0.56  LLOWED PENTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Free Mandal (Free	6.34 6.34 6.33 6.33 6.33 6.33 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbio dahl Nitroger Cyanide) a) (Cd) (Co)	NO SHEEN ORP (mV)  -14.1  -14.3  -14.5  -14.8  -14.4  TYPE (Circle aportion (Circle aportion (Circle aportion (NH3)) (NO3/2)  (Cr) (Cu) (Fe) (Circle (Circle aportion (Circle ap	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (G (NO2)  (Pb) (Mg) (Mn) (	non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Comments/ Observations  OR □ OR □ OR □
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  375.6  375.6  375.6  375.6  375.6  NALYSIS AI (NWTPI inctivity) (TD C) (Total PO- (le) (WAD C) () (As) (Sb) (etals) (As) (Sl (g short list)	D.O. (mg/L)  0.55  0.56  0.56  0.57  0.56  LLOWED PENTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Free Mandal (Free	6.34 6.34 6.33 6.33 6.33 6.33 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbio dahl Nitroger Cyanide) a) (Cd) (Co)	NO SHEEN ORP (mV)  -14.1  -14.3  -14.5  -14.8  -14.4  TYPE (Circle aportion (Circle aportion (Circle aportion (NH3)) (NO3/2)  (Cr) (Cu) (Fe) (Circle (Circle aportion (Circle ap	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (G (NO2)  (Pb) (Mg) (Mn) (	non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Comments/ Observations  OR □ OR □ OR □
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  375.6  375.6  375.6  375.6  375.6  NALYSIS AI (NWTPI inctivity) (TD C) (Total PO- (le) (WAD C) () (As) (Sb) (etals) (As) (Sl (g short list)	D.O. (mg/L)  0.55  0.56  0.56  0.57  0.56  LLOWED PENTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Free Mandal (Free	6.34 6.34 6.33 6.33 6.33 6.33 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbio dahl Nitroger Cyanide) a) (Cd) (Co)	NO SHEEN ORP (mV)  -14.1  -14.3  -14.5  -14.8  -14.4  TYPE (Circle aportion (Circle aportion (Circle aportion (NH3)) (NO3/2)  (Cr) (Cu) (Fe) (Circle (Circle aportion (Circle ap	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (G (NO2)  (Pb) (Mg) (Mn) (	non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Comments/ Observations  OR □ OR □ OR □
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  375.6  375.6  375.6  375.6  375.6  NALYSIS AI (NWTPI inctivity) (TD C) (Total PO- (le) (WAD C) () (As) (Sb) (etals) (As) (Sl (g short list)	D.O. (mg/L)  0.55  0.56  0.56  0.57  0.56  LLOWED PENTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Free Mandal (Free	6.34 6.34 6.33 6.33 6.33 6.33 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbio dahl Nitroger Cyanide) a) (Cd) (Co)	NO SHEEN ORP (mV)  -14.1  -14.3  -14.5  -14.8  -14.4  TYPE (Circle aportion (Circle aportion (Circle aportion (NH3)) (NO3/2)  (Cr) (Cu) (Fe) (Circle (Circle aportion (Circle ap	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Comments/ Observations  OR □ OR □ OR □
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanidation (COD) (Total Metals) (Dissolved Methane Eth)  others	Cond. (uS/cm)  375.6  375.6  375.6  375.6  375.6  NALYSIS AI (NWTPI inctivity) (TD C) (Total PO- (le) (WAD C) () (As) (Sb) (etals) (As) (Sl (g short list)	D.O. (mg/L)  0.55  0.56  0.56  0.57  0.56  LLOWED PENTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Free Mandal (Free	6.34 6.34 6.33 6.33 6.33 6.33 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbio dahl Nitroger Cyanide) a) (Cd) (Co)	NO SHEEN ORP (mV)  -14.1  -14.3  -14.5  -14.8  -14.4  TYPE (Circle aportion (Circle aportion (Circle aportion (NH3)) (NO3/2)  (Cr) (Cu) (Fe) (Circle (Circle aportion (Circle ap	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Comments/ Observations  OR □ OR □ OR □
Replicate  1 2 3 4 Average:  QUANTITY 3  1  Duplicate Sam	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanidation (COD) (Total Metals) (Dissolved Methane Eth)  others	Cond. (uS/cm)  375.6  375.6  375.6  375.6  375.6  NALYSIS AI (NWTPI inctivity) (TD C) (Total PO- (le) (WAD C) () (As) (Sb) (etals) (As) (Sl (g short list)	D.O. (mg/L)  0.55  0.56  0.56  0.57  0.56  LLOWED PENTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Free Mandal (Free	6.34 6.34 6.33 6.33 6.33 6.33 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbio dahl Nitroger Cyanide) a) (Cd) (Co)	NO SHEEN ORP (mV)  -14.1  -14.3  -14.5  -14.8  -14.4  TYPE (Circle aportion (Circle aportion (Circle aportion (NH3)) (NO3/2)  (Cr) (Cu) (Fe) (Circle (Circle aportion (Circle ap	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (O'NO2)  (Pb) (Mg) (Mn) (	non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Comments/ Observations  OR □ OR □ OR □
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  8.3  8.3  8.3  8.3  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanidation (COD) (Total Metals) (Dissolved Methane Eth)  others	Cond. (uS/cm)  375.6  375.6  375.6  375.6  375.6  NALYSIS AI (NWTPI inctivity) (TD C) (Total PO- (le) (WAD C) () (As) (Sb) (etals) (As) (Sl (g short list)	D.O. (mg/L)  0.55  0.56  0.56  0.57  0.56  LLOWED PENTPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Free Mandal (Free	6.34 6.34 6.33 6.33 6.33 6.33 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH BOD) (Turbio dahl Nitroger Cyanide) a) (Cd) (Co)	NO SHEEN ORP (mV)  -14.1  -14.3  -14.5  -14.8  -14.4  TYPE (Circle aportion (Circle aportion (Circle aportion (NH3)) (NO3/2)  (Cr) (Cu) (Fe) (Circle (Circle aportion (Circle ap	Turbidity (NTU)  oplicable or write  (8141) (Oil & G (HCO3/CO3) (670)  (Pb) (Mg) (Mn) (Ni)  (b) (Mg) (Mn) (Ni)	non-standard and rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below)  WA   WA   O3) (NO2) (F)  T1) (V) (Zn) (H	Comments/ Observations  OR □ OR □ OR □



Project Nam	ie:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2021		_	Date/Time:	2/ 16 /2021@	1215		
Sample Nun	nber:	RGW249S-	210216		Weather:	OVERCAST, 40	)S		
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)	3.69	Time:	1150	Flow through ce	ll vol.		GW Meter No.(	SLOPE 8
Begin Purge:	Date/Time:	2/ 16 /2021	1152	End Purge:	_	2/ 16 /2021 @	1214	Gallons Purged:	
Purge water d	lisposed to:		55-gal Drum		Storage Tank	Ground	Other	SITE TREATM	ENT SYSTEM
-	Т	Cond.	D.O.		ORP	Tk: 1:4	DTW	Internal Purge	Comments/
Time	Temp (°F/°C)	(uS/cm)	(mg/L)	pН	(mV)	Turbidity (NTU)	(ft)	Volume (gal)	Observations
	~					lings within the fo	~	>/= 1 flow	
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
1155	11.0	372.5	0.29	6.31	20.6		3.65		
1158	9.8	370.9	0.37	6.32	2.0		3.65		
1201	9.2	361.1	0.40	6.30	-3.2		3.65		
1204	8.7	350.4	0.38	6.28	-5.9				
1207	8.9	340.7	0.37	6.25	-9.1				
1210	9.1	338.2	0.42	6.24	-10.5		-		
-							-		
1213	9.4	339.3	0.47	6.24	-12.1		-		
SAMDLE CO	LLECTION I	) A T A							
Sample Colle			Bailer		Pumn/Pumn Tyne	DED BLADDER			
Made of:	cica wini.	Stainless Ste	_	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proceed	lure:	Alconox Wa	=	Tap Rinse	DI Water	Dedicated		D vareaucu	
	_		511	rap Kilise	□ Di watei	Dedicated			
(By Numerica	ıl ()rder)	Other							
(By Numerical Sample Description		Other turbidity, odor	sheen, etc.):	CLEAR, CO	LORLESS, NO	DOR. NO SHEEN	. LIGHT FINES	<b>,</b>	
		-	, sheen, etc.):	CLEAR, CO	LORLESS, NO	DOOR, NO SHEEN	, LIGHT FINES	3	
		-	D.O. (mg/L)	CLEAR, CO	ORP (mV)	DDOR, 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)	pН	ORP (mV)	Turbidity	DTW	Ferrous iron	
Sample Descri Replicate	Temp (°F/°C)	Cond. (uS/cm) 339.5	D.O. (mg/L)	<b>рН</b> 6.23	ORP (mV)	Turbidity	DTW	Ferrous iron	
Replicate  1 2	Temp (°F/°C) 9.4	Cond. (uS/cm) 339.5	D.O. (mg/L) 0.48	pH 6.23 6.24	ORP (mV) -12.3 -12.4	Turbidity	DTW	Ferrous iron	
Replicate  1 2 3 4	Temp (°F/°C) 9.4 9.4 9.4	Cond. (uS/cm) 339.5 339.6 339.7	D.O. (mg/L) 0.48 0.49 0.50	6.23 6.24 6.25 6.23	ORP (mV) -12.3 -12.4 -12.4 -12.6	Turbidity	DTW	Ferrous iron	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.4 9.4 9.4 9.4	Cond. (uS/cm) 339.5 339.6 339.7 339.5 339.6	D.O. (mg/L) 0.48 0.49 0.50 0.50	6.23 6.24 6.25 6.23 6.24	ORP (mV) -12.3 -12.4 -12.4 -12.6 -12.4	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.4 9.4 9.4 9.4 79.4	Cond. (uS/cm) 339.5 339.6 339.7 339.5 339.6	D.O. (mg/L)  0.48  0.49  0.50  0.49  LLOWED PE	6.23 6.24 6.25 6.23 6.24 ER BOTTLE	ORP (mV)  -12.3  -12.4  -12.6  -12.4  TYPE (Circle a)	Turbidity	DTW (ft)	Ferrous iron (Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.4 9.4 9.4 9.4 7YPICAL A (8260) (8010	Cond. (uS/cm)  339.5  339.6  339.7  339.5  339.6  NALYSIS AI (0) (8020) (N	D.O. (mg/L)  0.48  0.49  0.50  0.49  LLOWED PERWYPH-G) (MARCH 1988)	6.23 6.24 6.25 6.23 6.24 ER BOTTLE NWTPH-GX	ORP (mV) -12.3 -12.4 -12.6 -12.6 -12.4 TYPE (Circle a) (BTEX)	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)  nalysis below) WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.4 9.4 9.4 9.4 9.4 1TYPICAL A (8260) (8010) (8270D) (PA	Cond. (uS/cm)  339.5  339.6  339.7  339.5  339.6  NALYSIS AI  O) (8020) (NAH) (NWTPH	D.O. (mg/L)  0.48  0.49  0.50  0.49  LLOWED PP  WTPH-G) (NWTF	6.23 6.24 6.25 6.23 6.24 ER BOTTLE NWTPH-GX: PH-Dx) (TPH	ORP (mV)  -12.3  -12.4  -12.6  -12.4  TYPE (Circle a) (BTEX)  H-HCID) (8081)	Turbidity (NTU)  pplicable or write	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Observations
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C) 9.4 9.4 9.4 9.4 1TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm) 339.5 339.6 339.7 339.5 339.6 NALYSIS AI D) (8020) (N CH) (NWTPHetivity) (TD:	D.O. (mg/L)  0.48  0.49  0.50  0.49  LLOWED PERMYPH-G) (M-D) (NWTH-S) (TSS) (E	6.23 6.24 6.25 6.23 6.24 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPH-Dx) (TPH-DX) (TPH-DX)	ORP (mV)  -12.3  -12.4  -12.6  -12.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (6	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.4  9.4  9.4  9.4  1TYPICAL A (8260) (8010 (8270D) (PA (PH) (Conduction) (Too	Cond. (uS/cm)  339.5  339.6  339.5  339.6  NALYSIS AI  (b) (8020) (N (c) (NWTPH (c) (Total PO-	D.O. (mg/L)  0.48  0.49  0.50  0.50  0.49  LLOWED PERMYPH-G) (M-LD) (NWTF	6.23 6.24 6.25 6.23 6.24 ER BOTTLE (NWTPH-Gx) PH-Dx) (TPFBOD) (Turbiodahl Nitroger	ORP (mV)  -12.3  -12.4  -12.6  -12.4  TYPE (Circle a) (BTEX)  H-HCID) (8081)	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (6	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.4  9.4  9.4  9.4  1 TYPICAL A (8260) (8010 (8270D) (PA (COD) (Total Cyanic	Cond. (uS/cm)  339.5  339.6  339.7  339.5  339.6  NALYSIS AI (0) (8020) (N AH) (NWTPH (ctivity) (TD: (C) (Total PO- (de) (WAD Cy	D.O. (mg/L)  0.48  0.49  0.50  0.50  0.49  LLOWED PF  WTPH-G) (NWTP S) (TSS) (E 4) (Total Kie vanide) (Free	6.23 6.24 6.25 6.23 6.24 ER BOTTLE (NWTPH-GX) PH-DX) (TPH-GX) BOD) (Turbic-dahl Nitroger Cyanide)	ORP (mV)  -12.3  -12.4  -12.6  -12.6  -12.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity (NH3) (NO3	Turbidity (NTU)  pplicable or write  (8141) (Oil & G (HCO3/CO3) (6	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  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
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.4  9.4  9.4  9.4  7YPICAL A (8260) (8010 (8270D) (PA (COD) (Total Cyanid (Total Metals	Cond. (uS/cm)  339.5  339.6  339.7  339.5  339.6  NALYSIS AI  (D) (8020) (NAH) (NWTPH (NWTPH (NETVITY)) (TDS)  (C) (Total PO- (De) (WAD Cy.) (As) (Sb) (	D.O. (mg/L)  0.48  0.49  0.50  0.50  0.49  LLOWED PF  WTPH-G) (NWTP S) (TSS) (B 4) (Total Kieler (To	6.23 6.24 6.25 6.23 6.24 ER BOTTLE (NWTPH-GX, PH-DX) (TPH-GX) (TOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -12.3  -12.4  -12.6  -12.6  -12.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  oplicable or write  (8141) (Oil & G) (HCO3/CO3) (ONO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.4  9.4  9.4  9.4  7YPICAL A (8260) (8010 (8270D) (PA (COD) (Total Cyanid (Total Metals	Cond. (uS/cm)  339.5  339.6  339.7  339.5  339.6  NALYSIS AI  (b) (8020) (N  CH) (NWTPH  (civity) (TD(  CC) (Total PO-  (de) (WAD Cy  (de) (As) (Sb) (  (etals) (As) (Sb) (	D.O. (mg/L)  0.48  0.49  0.50  0.50  0.49  LLOWED PF  WTPH-G) (NWTP S) (TSS) (B 4) (Total Kieler (To	6.23 6.24 6.25 6.23 6.24 ER BOTTLE (NWTPH-GX, PH-DX) (TPH-GX) (TOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -12.3  -12.4  -12.6  -12.6  -12.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  oplicable or write  (8141) (Oil & G) (HCO3/CO3) (ONO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.4  9.4  9.4  9.4  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  339.5  339.6  339.7  339.5  339.6  NALYSIS AI  (b) (8020) (N  CH) (NWTPH  (civity) (TD(  CC) (Total PO-  (de) (WAD Cy  (de) (As) (Sb) (  (etals) (As) (Sb) (	D.O. (mg/L)  0.48  0.49  0.50  0.50  0.49  LLOWED PERMYPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Canda)	6.23 6.24 6.25 6.23 6.24 ER BOTTLE (NWTPH-GX, PH-DX) (TPH-GX) (TOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -12.3  -12.4  -12.6  -12.6  -12.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  oplicable or write  (8141) (Oil & G) (HCO3/CO3) (ONO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.4  9.4  9.4  9.4  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 339.5 339.6 339.7 339.5 339.6 NALYSIS AI (0) (8020) (N (N) (NWTPH (ctivity) (TD) (Total PO- (le) (WAD Cy () (As) (Sb) ( (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.48  0.49  0.50  0.50  0.49  LLOWED PERMYPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Canda)	6.23 6.24 6.25 6.23 6.24 ER BOTTLE (NWTPH-GX, PH-DX) (TPH-GX) (TOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -12.3  -12.4  -12.6  -12.6  -12.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  oplicable or write  (8141) (Oil & G) (HCO3/CO3) (ONO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.4  9.4  9.4  9.4  9.4  TYPICAL A (8260) (8010 (8270D) (PA (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 339.5 339.6 339.7 339.5 339.6 NALYSIS AI (0) (8020) (N (N) (NWTPH (ctivity) (TD) (Total PO- (le) (WAD Cy () (As) (Sb) ( (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.48  0.49  0.50  0.50  0.49  LLOWED PERMYPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Canda)	6.23 6.24 6.25 6.23 6.24 ER BOTTLE (NWTPH-GX, PH-DX) (TPH-GX) (TOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -12.3  -12.4  -12.6  -12.6  -12.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  oplicable or write  (8141) (Oil & G) (HCO3/CO3) (ONO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.4  9.4  9.4  9.4  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm) 339.5 339.6 339.7 339.5 339.6 NALYSIS AI (0) (8020) (N (N) (NWTPH (ctivity) (TD) (Total PO- (le) (WAD Cy () (As) (Sb) ( (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.48  0.49  0.50  0.50  0.49  LLOWED PERMYPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Canda)	6.23 6.24 6.25 6.23 6.24 ER BOTTLE (NWTPH-GX, PH-DX) (TPH-GX) (TOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -12.3  -12.4  -12.6  -12.6  -12.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  oplicable or write  (8141) (Oil & G) (HCO3/CO3) (ONO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.4  9.4  9.4  9.4  9.4  1 YYPICAL A (8260) (8010 (8270D) (PA (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 339.5 339.6 339.7 339.5 339.6 NALYSIS AI (0) (8020) (N (N) (NWTPH (ctivity) (TD) (Total PO- (le) (WAD Cy () (As) (Sb) ( (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.48  0.49  0.50  0.50  0.49  LLOWED PERMYPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Canda)	6.23 6.24 6.25 6.23 6.24 ER BOTTLE (NWTPH-GX, PH-DX) (TPH-GX) (TOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -12.3  -12.4  -12.6  -12.6  -12.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  oplicable or write  (8141) (Oil & G) (HCO3/CO3) (ONO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.4  9.4  9.4  9.4  9.4  1 YYPICAL A (8260) (8010 (8270D) (PA (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 339.5 339.6 339.7 339.5 339.6 NALYSIS AI (0) (8020) (N (N) (NWTPH (ctivity) (TD) (Total PO- (le) (WAD Cy () (As) (Sb) ( (etals) (As) (Sb) (g short list)	D.O. (mg/L)  0.48  0.49  0.50  0.50  0.49  LLOWED PERMYPH-G) (M-TPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Free Ba) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Be) (Canda) (Canda)	6.23 6.24 6.25 6.23 6.24 ER BOTTLE (NWTPH-GX, PH-DX) (TPH-GX) (TOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -12.3  -12.4  -12.6  -12.6  -12.4  TYPE (Circle a) (BTEX)  H-HCID) (8081) (dity) (Alkalinity (NH3) (NO3) (Cr) (Cu) (Fe)	Turbidity (NTU)  oplicable or write  (8141) (Oil & G) (HCO3/CO3) (ONO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis below) WA  WA  O O O O O O O O O O O O O O O O O O O	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:		Feb. 2021		_	Date/Time:	2/ 16/2021@	905		
Sample Num	ber:	RGW250S-	210216		Weather:	PARTLY CLOU	JDY, 40S		
Landau Repr	esentative:	BXM			•				
WATER LEV	EL/WELL/PI	IRGE DATA							
Well Conditio		Secure (YES	)	Damaged (N	O)	Describe:	FLUSH		
DTW Before I	Purging (ft)	3.38	Time:	- '	Flow through cel		-	GW Meter No.(s	SSLOPE 8
Begin Purge:	0 0 0		842	End Purge:	_	2/ 16 /2021 @	904	Gallons Purged:	
Purge water di			55-gal Drum	Ĕ	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
	` ′	. ,	. 0 /	ers for three	` ′	lings within the fo	` '	>/= 1 flow	obser viterons
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
845	10.1	106.8	2.92	6.56	11.1		3.42		
848	9.7	106.0	2.79	6.61	9.7		3.42		
851	8.7	101.7	2.42	6.68	5.8		3.40		
854	8.4	100.3	1.90	6.77	-0.2		3.40		-
857	8.5	99.6	1.79	6.89	-10.0		3.10		
900	8.5	99.4	1.63	6.88	-11.5				
903	8.5	99.2	1.55	6.9	-16.8				
							-		
SAMPLE CO									
Sample Collec	cted With:		Bailer	_		DED BLADDER			
Made of:	Ų	Stainless Ste	el 📕	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced		Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated			
(By Numerical									
, •		Other		~~~~~					
, •		_	, sheen, etc.):	CLEAR, YE	LLOW TINT, NO	ODOR, NO SHE	EN		
. •	iption (color, t	turbidity, odor	D.O.	CLEAR, YE	ORP	Turbidity	DTW	Ferrous iron (Fe II)	Comments/ Observations
Sample Descri	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)			Ferrous iron (Fe II)	Comments/ Observations
Sample Descri	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	<b>рН</b> 6.91	ORP (mV)	Turbidity	DTW		
Replicate  1 2	Temp (°F/°C) 8.6	Cond. (uS/cm) 99.2	D.O. (mg/L) 1.49	<b>рН</b> 6.91 6.90	ORP (mV) -17.1	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 8.6 8.6	Cond. (uS/cm) 99.2 99.3	D.O. (mg/L) 1.49 1.45	<b>pH</b> 6.91 6.90 6.90	ORP (mV) -17.1 -17.4 -17.8	Turbidity	DTW		
Replicate  1 2	Temp (°F/°C) 8.6	Cond. (uS/cm) 99.2 99.3 99.2	D.O. (mg/L) 1.49	<b>pH</b> 6.91 6.90 6.90	ORP (mV) -17.1	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 8.6 8.6	Cond. (uS/cm) 99.2 99.3	D.O. (mg/L) 1.49 1.45	<b>pH</b> 6.91 6.90 6.90	ORP (mV) -17.1 -17.4 -17.8	Turbidity	DTW		
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.6  8.6  8.6  8.6	Cond. (uS/cm)  99.2  99.3  99.2  99.3	D.O. (mg/L)  1.49  1.45  1.43  1.43	6.91 6.90 6.90 6.90	ORP (mV) -17.1 -17.4 -17.8 -18.3 -17.7	Turbidity	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8.6 8.6 8.6 8.6 7YPICAL A	Cond. (uS/cm) 99.2 99.3 99.3 99.2 99.3	D.O. (mg/L)  1.49  1.45  1.43  1.43	6.91 6.90 6.90 6.90 6.90	ORP (mV) -17.1 -17.4 -17.8 -18.3 -17.7  TYPE (Circle a)	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8.6 8.6 8.6 8.6 TYPICAL A (8260) (8010)	Cond. (uS/cm)  99.2  99.3  99.3  99.3  99.3  NALYSIS AI	D.O. (mg/L)  1.49  1.45  1.43  1.45  LOWED PE	6.90 6.90 6.90 6.90 6.90 R BOTTLE	ORP (mV)  -17.1  -17.4  -17.8  -18.3  -17.7  TYPE (Circle aport)  (BTEX)	Turbidity (NTU)	DTW (ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 8.6 8.6 8.6 8.6 74PICAL A (8260) (8010 (8270) (PAF-	Cond. (uS/cm) 99.2 99.3 99.3 99.2 99.3 NALYSIS AI 0) (8021) (N	D.O. (mg/L)  1.49  1.45  1.43  1.43  1.45  LLOWED PERMYPH-G) (MOTPH-G) (MOTP	6.91 6.90 6.90 6.90 6.90 CR BOTTLE NWTPH-Gx, I-Dx) (TPH-	ORP (mV)  -17.1  -17.4  -18.3  -17.7  TYPE (Circle ap (BTEX)  HCID) (8081) (dity) (Alkalinity)	Turbidity (NTU)  Oplicable or write (8141) (Oil & Gree) (HCO3/CO3) (0	DTW (ft)	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.6  8.6  8.6  8.6  8.6  8.6  (8260) (8010) (8270) (PAH) (Conduction (COD) (TOO)	Cond. (uS/cm)  99.2  99.3  99.3  99.2  99.3  NALYSIS AI  0) (8021) (NI) (NWTPH- lectivity) (TDI	D.O. (mg/L)  1.49  1.45  1.43  1.43  1.45  LLOWED PERMYTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie	6.91 6.90 6.90 6.90 6.90 CR BOTTLE NWTPH-Gx 1-Dx) (TPH- OD) (Turbid dall Nitroger	ORP (mV)  -17.1  -17.4  -18.3  -17.7  TYPE (Circle ap (BTEX))	Turbidity (NTU)  Oplicable or write (8141) (Oil & Gree) (HCO3/CO3) (0	DTW (ft)	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.6  8.6  8.6  8.6  8.6  (8260) (8010) (8270) (PAH) (pH) (Conduction (COD) (TOO) (Total Cyanid	Cond. (uS/cm)  99.2  99.3  99.3  99.3  NALYSIS AI  0) (8021) (N I) (NWTPH- lectivity) (TD: c) (Total PO- le) (WAD Cy	D.O. (mg/L)  1.49  1.45  1.43  1.43  1.45  LLOWED PF  IWTPH-G) ( D) (NWTPH  S) (TSS) (B  4) (Total Kie vanide) (Free	6.91 6.90 6.90 6.90 6.90 CR BOTTLE NWTPH-Gx) (I-Dx) (TPH-OD) (Turbidahl Nitroger Cyanide)	ORP (mV)  -17.1  -17.4  -17.8  -18.3  -17.7  TYPE (Circle a) (BTEX)  HCID) (8081) (dity) (Alkalinity) (NO3)	Turbidity (NTU)  oplicable or write  (8141) (Oil & Green (HCO3/CO3) (MV)	DTW (ft)  non-standard a ase) CI) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.6  8.6  8.6  8.6  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (Todal Cyanid (Total Metals)	Cond. (uS/cm)  99.2  99.3  99.3  99.3  99.2  99.3  NALYSIS AI  () (8021) (N I) (NWTPH- lectivity) (TD: C) (Total PO- le) (WAD Cy ) (As) (Sb) (	D.O. (mg/L)  1.49  1.45  1.43  1.43  1.45  LLOWED PE IWTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.91 6.90 6.90 6.90 6.90 CR BOTTLE NWTPH-GX) (-Dx) (TPH-OD) (Turbidahl Nitroger Cyanide)	ORP (mV)  -17.1  -17.4  -17.8  -18.3  -17.7  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (Oil NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.6  8.6  8.6  8.6  TYPICAL A  (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 99.2 99.3 99.3 99.2 99.3 NALYSIS AI () (8021) (N (I) (NWTPH- () (Total PO- (c) (Total PO- (c) (As) (Sb) ((etals) (As) (Sb)	D.O. (mg/L)  1.49  1.45  1.43  1.43  1.45  LLOWED PE IWTPH-G) ( D) (NWTPH S) (TSS) (B 4) (Total Kie ranide) (Free Ba) (Be) (Ca	6.91 6.90 6.90 6.90 6.90 CR BOTTLE NWTPH-GX) (-Dx) (TPH-OD) (Turbidahl Nitroger Cyanide)	ORP (mV)  -17.1  -17.4  -17.8  -18.3  -17.7  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (Oil NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.6  8.6  8.6  8.6  8.6  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 99.2 99.3 99.3 99.2 99.3 NALYSIS AI () (8021) (N (I) (NWTPH- () (Total PO- (c) (Total PO- (c) (As) (Sb) ((etals) (As) (Sb)	D.O. (mg/L)  1.49  1.45  1.43  1.43  1.45  LLOWED PERMYTPH-G) ( D) (NWTPH-S) (TSS) (Bd) (Total Kie (vanide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.91 6.90 6.90 6.90 6.90 CR BOTTLE NWTPH-GX) (-Dx) (TPH-OD) (Turbidahl Nitroger Cyanide)	ORP (mV)  -17.1  -17.4  -17.8  -18.3  -17.7  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (Oil NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.6  8.6  8.6  8.6  8.6  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 99.2 99.3 99.3 99.2 99.3 NALYSIS AI () (8021) (N II) (NWTPH- tetivity) (TD: (C) (Total PO- le) (WAD Cy () (As) (Sb) ( etals) (As) (St () g short list)	D.O. (mg/L)  1.49  1.45  1.43  1.43  1.45  LLOWED PERMYTPH-G) ( D) (NWTPH-S) (TSS) (Bd) (Total Kie (vanide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.91 6.90 6.90 6.90 6.90 CR BOTTLE NWTPH-GX) (-Dx) (TPH-OD) (Turbidahl Nitroger Cyanide)	ORP (mV)  -17.1  -17.4  -17.8  -18.3  -17.7  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (Oil NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  8.6  8.6  8.6  8.6  8.6  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 99.2 99.3 99.3 99.2 99.3 NALYSIS AI () (8021) (N II) (NWTPH- tetivity) (TD: (C) (Total PO- le) (WAD Cy () (As) (Sb) ( etals) (As) (St () g short list)	D.O. (mg/L)  1.49  1.45  1.43  1.43  1.45  LLOWED PERMYTPH-G) ( D) (NWTPH-S) (TSS) (Bd) (Total Kie (vanide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.91 6.90 6.90 6.90 6.90 CR BOTTLE NWTPH-GX) (-Dx) (TPH-OD) (Turbidahl Nitroger Cyanide)	ORP (mV)  -17.1  -17.4  -17.8  -18.3  -17.7  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (Oil NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY	Temp (°F/°C)  8.6  8.6  8.6  8.6  8.6  TYPICAL A (8260) (8010 (8270) (PAF (pH) (Condu (COD) (TOG (Total Cyanid (Total Metals (Dissolved M	Cond. (uS/cm) 99.2 99.3 99.3 99.2 99.3 NALYSIS AI () (8021) (N II) (NWTPH- tetivity) (TD: (C) (Total PO- le) (WAD Cy () (As) (Sb) ( etals) (As) (St () g short list)	D.O. (mg/L)  1.49  1.45  1.43  1.43  1.45  LLOWED PERMYTPH-G) ( D) (NWTPH-S) (TSS) (Bd) (Total Kie (vanide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.91 6.90 6.90 6.90 6.90 CR BOTTLE NWTPH-GX) (-Dx) (TPH-OD) (Turbidahl Nitroger Cyanide)	ORP (mV)  -17.1  -17.4  -17.8  -18.3  -17.7  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (Oil NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY	Temp (°F/°C)  8.6  8.6  8.6  8.6  8.6  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 99.2 99.3 99.3 99.2 99.3 NALYSIS AI () (8021) (N II) (NWTPH- tetivity) (TD: (C) (Total PO- le) (WAD Cy () (As) (Sb) ( etals) (As) (St () g short list)	D.O. (mg/L)  1.49  1.45  1.43  1.43  1.45  LLOWED PERMYTPH-G) ( D) (NWTPH-S) (TSS) (Bd) (Total Kie (vanide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.91 6.90 6.90 6.90 6.90 CR BOTTLE NWTPH-GX) (-Dx) (TPH-OD) (Turbidahl Nitroger Cyanide)	ORP (mV)  -17.1  -17.4  -17.8  -18.3  -17.7  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (Oil NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY	Temp (°F/°C)  8.6  8.6  8.6  8.6  8.6  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 99.2 99.3 99.3 99.2 99.3 NALYSIS AI () (8021) (N II) (NWTPH- tetivity) (TD: (C) (Total PO- le) (WAD Cy () (As) (Sb) ( etals) (As) (St () g short list)	D.O. (mg/L)  1.49  1.45  1.43  1.43  1.45  LLOWED PERMYTPH-G) ( D) (NWTPH-S) (TSS) (Bd) (Total Kie (vanide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.91 6.90 6.90 6.90 6.90 CR BOTTLE NWTPH-GX) (-Dx) (TPH-OD) (Turbidahl Nitroger Cyanide)	ORP (mV)  -17.1  -17.4  -17.8  -18.3  -17.7  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Gree) (HCO3/CO3) (Oil NO2)  (Pb) (Mg) (Mn) (	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY	Temp (°F/°C)  8.6  8.6  8.6  8.6  8.6  TYPICAL A (8260) (8010 (8270) (PAH (pH) (Condu (COD) (TOC (Total Cyanid (Total Metals) (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm) 99.2 99.3 99.3 99.2 99.3 NALYSIS AI () (8021) (N II) (NWTPH- tetivity) (TD: (C) (Total PO- le) (WAD Cy () (As) (Sb) ( etals) (As) (St () g short list)	D.O. (mg/L)  1.49  1.45  1.43  1.43  1.45  LLOWED PERMYTPH-G) ( D) (NWTPH-S) (TSS) (Bd) (Total Kie (vanide) (Free Ba) (Be) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca) (Ca	6.91 6.90 6.90 6.90 6.90 CR BOTTLE NWTPH-GX) (-Dx) (TPH-OD) (Turbidahl Nitroger Cyanide)	ORP (mV)  -17.1  -17.4  -17.8  -18.3  -17.7  TYPE (Circle aportion (BTEX)  HCID) (8081) (dity) (Alkalinity) (NH3) (NO3)  (Cr) (Cu) (Fe)	Turbidity (NTU)  pplicable or write  (8141) (Oil & Green (HCO3/CO3) (Or (NO2)  (Pb) (Mg) (Mn) (Ni) (Ni) (Ni) (Ni) (Ni) (Ni) (Ni) (Ni	DTW (ft)  non-standard a ase) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Nam	e:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2021		_	Date/Time:	2/17/2021@	947		
Sample Num	nber:	RGW253I-	210217		Weather:	CLOUDY SOM	E RAIN		
Landau Repr	resentative:	AHA			•				
WATERIEV	/EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES	)	Damaged (N	0)	Describe:	FLUSHMOUN	IT	
DTW Before		5.17	Time:	- '	Flow through ce		T ECOTION CO.	GW Meter No.(s	i 10
Begin Purge:	0 0 0			End Purge:	_	2/ 17/2021 @	0/13	Gallons Purged:	0.25
Purge water d		2/1//2021 (	55-gal Drum	Ĕ	Storage Tank	Ground		SITE TREATM	
i uige water u	isposed to.		55-gai Diulii		Storage Talik	□ Ground	Other	SHE IKEAIW	ENTSTSTEM
Time	Temp (°F/°C)	Cond.	D.O.	pН	ORP (mV)	Turbidity	DTW	Internal Purge	Comments/
Time	, ,	(uS/cm) s: Stablizatio	(mg/L) n of Paramet	ters for three	. ,	(NTU) lings within the fo	(ft) llowing limits	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
925	10.2	282.4	1.01	6.58	-76.8		5.17		
928	9.4	275.1	1.03	6.62	-79.8		5.17		
931	9.2	268.1	1.08	6.61	-78.6		5.17	-	
							5.17	-	
934	8.9	259.9	1.36	6.56	-77.2				
937	9.1	257.1	1.47	6.54	-76.3				
940	9.2	256.6	1.29	6.54	-76.6				
942	9.2	255.9	1.27	6.54	-76.9				
SAMPLE CO	LLECTION D	DATA							
Sample Colle	cted With:		Bailer		Pump/Pump Type	DED. BLADDER			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Wa	sh 🗍	Tap Rinse	DI Water	Dedicated	_	_	
(By Numerica	d Order)	Other		•	<b>4</b>	_			
Sample Descr		_	, sheen, etc.):	NO COLOR	, LOW TURB, N	O ODOR, NO SHI	EEN		
Sample Descr		_	, sheen, etc.):	NO COLOR	, LOW TURB, N	O ODOR, NO SHI	EEN		
Sample Descr Replicate		_	D.O. (mg/L)	NO COLOR	, LOW TURB, N	O ODOR, NO SHI  Turbidity  (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
	Temp	turbidity, odor	D.O.		ORP	Turbidity	DTW		
Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	pН	ORP (mV)	Turbidity	DTW		
Replicate  1 2	Temp (°F/°C) 9.2	Cond. (uS/cm)  255.3	D.O. (mg/L) 1.28	<b>pH</b> 6.54 6.54	ORP (mV) -76.7 -77.1	Turbidity	DTW		
Replicate  1 2 3	Temp (°F/°C) 9.2 9.2	Cond. (uS/cm)  255.3  255.4  255.3	D.O. (mg/L) 1.28 1.17	<b>pH</b> 6.54 6.54 6.55	ORP (mV) -76.7 -77.1	Turbidity	DTW		
Replicate  1 2 3 4	Temp (°F/°C) 9.2 9.2 9.2	Cond. (uS/cm)  255.3  255.4  255.3	D.O. (mg/L) 1.28 1.17 1.28 1.33	pH  6.54  6.54  6.55  6.54	ORP (mV) -76.7 -77.1 -77.2 -77.1	Turbidity (NTU)	DTW		
Replicate  1 2 3	Temp (°F/°C) 9.2 9.2	Cond. (uS/cm)  255.3  255.4  255.3	D.O. (mg/L) 1.28 1.17	<b>pH</b> 6.54 6.54 6.55	ORP (mV) -76.7 -77.1	Turbidity	DTW		
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.2 9.2 9.2 9.2 9.2	Cond. (uS/cm)  255.3  255.4  255.3  254.9  255.2	D.O. (mg/L)  1.28  1.17  1.28  1.33	pH  6.54  6.54  6.55  6.54  6.54	ORP (mV) -76.7 -77.1 -77.2 -77.1	Turbidity (NTU)	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.2 9.2 9.2 9.2 9.2	Cond. (uS/cm)  255.3  255.4  255.3  254.9  255.2  NALYSIS AI	D.O. (mg/L)  1.28  1.17  1.28  1.33  1.27  LLOWED PE	pH  6.54  6.54  6.55  6.54  6.54  CR BOTTLE	ORP (mV) -76.7 -77.1 -77.2 -77.1 -77.0  TYPE (Circle a)	Turbidity (NTU)  #DIV/0!	DTW (ft)	(Fe II)	
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.2 9.2 9.2 9.2 9.2 7.2 9.2 9.2 9.2 9.2 9.2	Cond. (uS/cm)  255.3  255.4  255.3  254.9  255.2  NALYSIS AI	D.O. (mg/L)  1.28  1.17  1.28  1.33  1.27  LLOWED PE	6.54 6.55 6.54 6.54 CR BOTTLE NWTPH-GX	ORP (mV)  -76.7  -77.1  -77.2  -77.0  TYPE (Circle aport)  (BTEX)	Turbidity (NTU)  #DIV/0!	DTW (ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.2 9.2 9.2 9.2 9.2 1TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm)  255.3  255.4  255.3  254.9  255.2  NALYSIS AI  (M) (NWTPFlectivity) (TD)	D.O. (mg/L)  1.28  1.17  1.28  1.33  1.27  LLOWED PERMYPH-G) (MYTPH-G) (NWTPH-G) (NWTPH-G) (MYTPH-G) (MYTP	6.54 6.54 6.54 6.54 6.54 6.54 ER BOTTLE NWTPH-GX PH-Dx) (TPF	ORP (mV)  -76.7  -77.1  -77.2  -77.0  TYPE (Circle a) (BTEX) H-HCID) (8081) (dity) (Alkalinity)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G	DTW (ft)	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.2  9.2  9.2  9.2  9.2  9.2  (8260) (8010 (8270D) (PAC) (PH) (Conduction) (TOO	Cond. (uS/cm)  255.3  255.4  255.3  254.9  255.2  NALYSIS AI  0) (8020) (N  H) (NWTPI  ctivity) (TD:  C) (Total PO-	D.O. (mg/L)  1.28  1.17  1.28  1.33  1.27  LLOWED PERMYPH-G) (M-LD) (NWTPH-G) (M-LD) (M-L	6.54 6.54 6.54 6.54 6.54 6.54 CR BOTTLE NWTPH-Gx; PH-Dx) (TPF	ORP (mV)  -76.7  -77.1  -77.2  -77.0  TYPE (Circle a) (BTEX) H-HCID) (8081)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G	DTW (ft)	nalysis below) WA  WA  WA	Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C) 9.2 9.2 9.2 9.2 9.2 9.2 (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Too	Cond. (uS/cm)  255.3  255.4  255.3  254.9  255.2  NALYSIS AI  0) (8020) (N  CH) (NWTPH  activity) (TD:  C) (Total PO-  de) (WAD Cy	D.O. (mg/L)  1.28  1.17  1.28  1.33  1.27  LLOWED PERMYPH-G) (NWTPH-G) (NWTPH-G) (NWTPH-G) (Total Kiewanide) (Freewanide) (Freewanide) (Freewanide) (Freewanide) (Freewanide) (Freewanide) (Freewanide) (Freewanide)	6.54 6.54 6.54 6.54 6.54 6.54 CR BOTTLE NWTPH-GX PH-Dx) (TPF GOD) (Turbic dahl Nitroger Cyanide)	ORP (mV)  -76.7  -77.1  -77.2  -77.1  -77.0  TYPE (Circle a) (BTEX)  H-HCID) (8081) dity) (Alkalinity (MH3) (NO3)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (67)	DTW (ft)  non-standard a  rease) Cl) (SO4) (NO	(Fe II)  nalysis below)  WA  WA  O  WA  O  O  O  O  O  O  O  O  O  O  O  O  O	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.2  9.2  9.2  9.2  9.2  1 YPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanida (Total Metals)	Cond. (uS/cm)  255.3  255.4  255.3  254.9  255.2  NALYSIS AI  O) (8020) (N  CH) (NWTPF  Intertivity) (TDI  C) (Total PO-  le) (WAD Cy  o) (As) (Sb) (	D.O. (mg/L)  1.28  1.17  1.28  1.33  1.27  LLOWED PE  WYPH-G) (WYFF S) (TSS) (B 4) (Total Kie  vanide) (Free Ba) (Be) (Ca	6.54 6.54 6.54 6.54 6.54 CR BOTTLE NWTPH-GX PH-Dx) (TPF GOD) (Turbidahl Nitroger Cyanide) (1) (Cd) (Co)	ORP (mV)  -76.7  -77.1  -77.2  -77.0  TYPE (Circle a)  (BTEX)  H-HCID) (8081) dity) (Alkalinity a) (NH3) (NO3.	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  OB ON	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.2  9.2  9.2  9.2  7YPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanid (Total Metals) (Dissolved M	Cond. (uS/cm)  255.3  255.4  255.3  254.9  255.2  NALYSIS AI  (NWTPFletivity) (TD: (C) (Total PO- (e) (WAD Cy ()) (As) (Sb) (cetals) (As) (Sb)	D.O. (mg/L)  1.28  1.17  1.28  1.33  1.27  LLOWED PE  WYPH-G) (WYFF S) (TSS) (B 4) (Total Kie  vanide) (Free Ba) (Be) (Ca	6.54 6.54 6.54 6.54 6.54 CR BOTTLE NWTPH-GX PH-Dx) (TPF GOD) (Turbidahl Nitroger Cyanide) (1) (Cd) (Co)	ORP (mV)  -76.7  -77.1  -77.2  -77.0  TYPE (Circle a)  (BTEX)  H-HCID) (8081) dity) (Alkalinity a) (NH3) (NO3.	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  OB ON	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.2  9.2  9.2  9.2  7.2  9.2  9.2  1.2  9.2  1.2  9.2  1.2  1	Cond. (uS/cm)  255.3  255.4  255.3  254.9  255.2  NALYSIS AI  0) (8020) (N  H) (NWTPH  activity) (TD:  C) (Total PO-  le) (WAD Cy  d) (As) (Sb) (setals) (As) (Sl  g short list)	D.O. (mg/L)  1.28  1.17  1.28  1.33  1.27  LLOWED PERMYTPH-G) (NWTFFS) (TSS) (Bd) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca b) (Ba) (Be) (Ca b)	6.54 6.54 6.54 6.54 6.54 CR BOTTLE NWTPH-GX PH-Dx) (TPF GOD) (Turbidahl Nitroger Cyanide) (1) (Cd) (Co)	ORP (mV)  -76.7  -77.1  -77.2  -77.0  TYPE (Circle a)  (BTEX)  H-HCID) (8081) dity) (Alkalinity a) (NH3) (NO3.	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  OB ON	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.2  9.2  9.2  9.2  7.2  9.2  9.2  1.2  9.2  1.2  9.2  1.2  1	Cond. (uS/cm)  255.3  255.4  255.3  254.9  255.2  NALYSIS AI  (NWTPHetivity) (TD: (C) (Total PO- (e) (WAD Cy ()) (As) (Sb) (etals) (As) (Sb)	D.O. (mg/L)  1.28  1.17  1.28  1.33  1.27  LLOWED PERMYTPH-G) (NWTFFS) (TSS) (Bd) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca b) (Ba) (Be) (Ca b)	6.54 6.54 6.54 6.54 6.54 6.54 CR BOTTLE NWTPH-GX PH-Dx) (TPF GOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -76.7  -77.1  -77.2  -77.0  TYPE (Circle a)  (BTEX)  H-HCID) (8081) dity) (Alkalinity a) (NH3) (NO3.	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  OB ON	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.2  9.2  9.2  9.2  7.2  9.2  9.2  1.2  9.2  1.2  9.2  1.2  1	Cond. (uS/cm)  255.3  255.4  255.3  254.9  255.2  NALYSIS AI  0) (8020) (N  H) (NWTPH  activity) (TD:  C) (Total PO-  le) (WAD Cy  d) (As) (Sb) (setals) (As) (Sl  g short list)	D.O. (mg/L)  1.28  1.17  1.28  1.33  1.27  LLOWED PERMYTPH-G) (NWTFFS) (TSS) (Bd) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca b) (Ba) (Be) (Ca b)	6.54 6.54 6.54 6.54 6.54 6.54 CR BOTTLE NWTPH-GX PH-Dx) (TPF GOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -76.7  -77.1  -77.2  -77.0  TYPE (Circle a)  (BTEX)  H-HCID) (8081) dity) (Alkalinity a) (NH3) (NO3.	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  OB ON	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.2  9.2  9.2  9.2  7.2  9.2  9.2  1.2  9.2  1.2  9.2  1.2  1	Cond. (uS/cm)  255.3  255.4  255.3  254.9  255.2  NALYSIS AI  0) (8020) (N  H) (NWTPH  activity) (TD:  C) (Total PO-  le) (WAD Cy  d) (As) (Sb) (setals) (As) (Sl  g short list)	D.O. (mg/L)  1.28  1.17  1.28  1.33  1.27  LLOWED PERMYTPH-G) (NWTFFS) (TSS) (Bd) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca b) (Ba) (Be) (Ca b)	6.54 6.54 6.54 6.54 6.54 6.54 CR BOTTLE NWTPH-GX PH-Dx) (TPF GOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -76.7  -77.1  -77.2  -77.0  TYPE (Circle a)  (BTEX)  H-HCID) (8081) dity) (Alkalinity a) (NH3) (NO3.	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  OB ON	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  9.2  9.2  9.2  9.2  9.2  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  255.3  255.4  255.3  254.9  255.2  NALYSIS AI  0) (8020) (N  H) (NWTPH  activity) (TD:  C) (Total PO-  le) (WAD Cy  d) (As) (Sb) (setals) (As) (Sl  g short list)	D.O. (mg/L)  1.28  1.17  1.28  1.33  1.27  LLOWED PERMYTPH-G) (NWTFFS) (TSS) (Bd) (Total Kie vanide) (Free Ba) (Be) (Ca b) (Ba) (Be) (Ca b) (Ba) (Be) (Ca b)	6.54 6.54 6.54 6.54 6.54 6.54 CR BOTTLE NWTPH-GX PH-Dx) (TPF GOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -76.7  -77.1  -77.2  -77.0  TYPE (Circle a)  (BTEX)  H-HCID) (8081) dity) (Alkalinity a) (NH3) (NO3.	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  OB ON	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  9.2  9.2  9.2  9.2  9.2  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  255.3  255.4  255.3  254.9  255.2  NALYSIS AI  0) (8020) (N  H) (NWTPH  activity) (TD:  C) (Total PO-  le) (WAD Cy  d) (As) (Sb) (setals) (As) (Sl  g short list)	D.O. (mg/L)  1.28  1.17  1.28  1.33  1.27  LLOWED PERMYTPH-G) (NWTFPH-G) (NWTFPH-G) (NWTFPH-G) (Total Kiewanide) (Free Ba) (Be) (Cab) (Ba) (Be) (Cab)	6.54 6.54 6.54 6.54 6.54 6.54 CR BOTTLE NWTPH-GX PH-Dx) (TPF GOD) (Turbidahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -76.7  -77.1  -77.2  -77.0  TYPE (Circle a)  (BTEX)  H-HCID) (8081) dity) (Alkalinity a) (NH3) (NO3.	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (0/NO2)  (Pb) (Mg) (Mn) (	non-standard a rease) Cl) (SO4) (NO	nalysis below) WA  WA  OB ON	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Nam	ie:	Boeing Ren	ton		Project Numbe	r:	0025217.099.0	99	
Event:		Feb. 2021		_	Date/Time:	2/ 15 /2021@			
Sample Nun	nber:	RGW263S-	210215		Weather:	VERY COLD, S	SNOW ON GR	OUND, RAIN	
Landau Rep	resentative:	BXM			·				
WATERIEV	/EL/WELL/PU	IRGE DATA							
Well Condition		Secure (YES	)	Damaged (N	IO)	Describe:	Flush Mount		
DTW Before		6.41	Time:	- '	Flow through ce		T Iddii Wodiit	GW Meter No.(s	SI ODE 8
	Date/Time:			End Purge:	_	2/ /2021 @	N/A	Gallons Purged:	
		2/ /2021 @	-	Ě				-	-
Purge water d	iisposed to:		55-gal Drum	ш	Storage Tank	Ground	Other	SITE TREATM	ENI SISIEM
	Temp	Cond.	D.O.	pН	ORP	Turbidity	DTW	Internal Purge	Comments/
Time	(°F/°C)	(uS/cm) ls: Stablizatio	(mg/L)	ters for three	(mV)	(NTU) lings within the fo	(ft)	Volume (gal) >/= 1 flow	Observations
	+/- 3%	+/- 3%		+/- 0.1 units		+/- 10%	< 0.3 ft	through cell	
	-						. ———		
	117	A TED	TEXT		NIT X/				
	W 1	<u>ATER</u>	LEV.	EL O	NLY				
							-		
							·		
SAMPLE CO	LLECTION I	DATA							
Sample Colle	cted With:		Bailer	П	Pump/Pump Type	;			
Made of:		Stainless Ste	el 🔲	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Procee	lure:	Alconox Wa		Tap Rinse	DI Water	Dedicated			
Decon i focce	iuic.								
(Ry Numerica	d Order)			rup runse	□ B1 Water	Dedicated			
(By Numerica		Other		Tup Tunise					
	nl Order)	Other		Tup Tunio		Dedicated			
		Other		рН	ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr	ription (color,	Other turbidity, odor	, sheen, etc.):				DTW (ft)	Ferrous iron (Fe II)	Comments/ Observations
Sample Descr	ription (color,	Other turbidity, odor	D.O.		ORP	Turbidity			
Sample Descri Replicate	ription (color,	Other turbidity, odor	D.O.		ORP	Turbidity			
Replicate  1 2	ription (color,	Other turbidity, odor	D.O.		ORP	Turbidity			
Sample Descri Replicate	ription (color,	Other turbidity, odor	D.O.		ORP	Turbidity			
Replicate  1 2	ription (color,	Other turbidity, odor	D.O.		ORP	Turbidity			
Replicate  1 2 3	ription (color,	Other turbidity, odor	D.O.		ORP	Turbidity			
Replicate  1 2 3 4 Average:	Temp (°F/°C)  #DIV/0!	Other turbidity, odor  Cond. (uS/cm)  #DIV/0!	D.O. (mg/L)	pH #DIV/0!	ORP (mV)#DIV/0!	Turbidity (NTU)  #DIV/0!	(ft)	(Fe II)	
Replicate  1 2 3 4	Temp (°F/°C)  #DIV/0!	Cond. (uS/cm)  #DIV/0!	#DIV/0!	pH  #DIV/0!	ORP (mV)  #DIV/0!	Turbidity (NTU)	(ft)	(Fe II)	Observations
Replicate  1 2 3 4 Average:	#DIV/0!  TYPICAL A (8260) (8010	Cond. (uS/cm)  #DIV/0!  NALYSIS AI (0) (8020) (N	#DIV/0!  LOWED PE	#DIV/0! ER BOTTLE NWTPH-Gx	ORP (mV)  #DIV/0!  TYPE (Circle ap) (BTEX)	Turbidity (NTU)  #DIV/0!  oplicable or write	(ft)	(Fe II)	Observations OR
Replicate  1 2 3 4 Average:	#DIV/0!  TYPICAL A (8260) (8010) (8270D) (PA	Cond. (uS/cm)  #DIV/0!  NALYSIS AI (0) (8020) (NAH) (NWTPH	#DIV/0!  LOWED PERMITTED IN THE PROPERTY OF TH	#DIV/0!  #BOTTLE  NWTPH-GX  PH-Dx) (TPF	ORP (mV)  #DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081)	Turbidity (NTU)  #DIV/0!  pplicable or write  (8141) (Oil & G	non-standard a	nalysis below) WA  WA  WA	Observations
Replicate  1 2 3 4 Average:	#DIV/0!  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	#DIV/0!  NALYSIS AI (0) (8020) (N AH) (NWTPH activity) (TD:	#DIV/0!  LOWED PERMYPH-G) (NWTPS) (TSS) (B	#DIV/0!  CR BOTTLE  NWTPH-Gx PH-Dx) (TPH  SOD) (Turbi	#DIV/0!  #TYPE (Circle ap ) (BTEX) H-HCID) (8081) dity) (Alkalinity)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (	non-standard a	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:	#DIV/0!  TYPICAL A (8260) (8010 (8270D) (PA (COD) (TOO	#DIV/0!  **NALYSIS AI* 0) (8020) (NAH) (NWTPHETIVITY) (TD: C) (Total PO-	#DIV/0!  LOWED PF IWTPH-G) (NWTP S) (TSS) (B	#DIV/0! ER BOTTLE NWTPH-Gx PH-Dx) (TPH GOD) (Turbit dahl Nitroger	ORP (mV)  #DIV/0!  TYPE (Circle ap) (BTEX) H-HCID) (8081)	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (	non-standard a	nalysis below) WA  WA  WA	Observations OR
Replicate  1 2 3 4 Average:	#DIV/0!  TYPICAL A (8260) (8010 (8270D) (PA (COD) (TOO	#DIV/0!  #DIV/0!  NALYSIS AI  0) (8020) (N  AH) (NWTPF  activity) (TD:  C) (Total PO-	#DIV/0!  LOWED PE WTPH-G) (NWTP S) (TSS) (B 4) (Total Kie	#DIV/0! ER BOTTLE NWTPH-Gx EDD) (Turbickled) (Turbickled)	#DIV/0!  #TYPE (Circle ap.) (BTEX) H-HCID) (8081) dity) (Alkalinity. n) (NH3) (NO3/	#DIV/0!  #DIV/0!  pplicable or write  (8141) (Oil & G ) (HCO3/CO3) (d/NO2)	non-standard at rease)	malysis below) WA  WA  WA  O NO2) (F)	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:	#DIV/0!  TYPICAL A  (8260) (8010 (8270D) (PA  (PH) (Condu (COD) (Total Cyanic (Total Metals	#DIV/0!  **NALYSIS AI* 0) (8020) (NAH) (NWTPHETIVITY) (TDE) C) (Total POCHE) (WAD Cy) (As) (Sb) (	#DIV/0!  LOWED PERMYTPH-G) (TSS) (TSS) (B4) (Total Kieranide) (Free Ba) (Be) (Ca	#DIV/0!  ER BOTTLE  NWTPH-Gx PH-Dx) (TPH BOD) (Turbit dahl Nitroger 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  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard as rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (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 (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M	#DIV/0!  **NALYSIS AI  **O) (8020) (N  AH) (NWTPH  **Letivity) (TD:  C) (Total PO-  **Letivity) (As) (Sb) (  **Letivity) (Sb) (  **Letivity) (Sc) (Sc) (Sc) (Sc) (Sc) (Sc) (Sc)	#DIV/0!  LOWED PERMYTPH-G) (TSS) (TSS) (B4) (Total Kieranide) (Free Ba) (Be) (Ca	#DIV/0!  ER BOTTLE  NWTPH-Gx PH-Dx) (TPH BOD) (Turbit dahl Nitroger 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  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard as rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  TI) (V) (Zn) (H	Observations  OR  OR  OR
Replicate  1 2 3 4 Average:	#DIV/0!  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M VOC (Boein	#DIV/0!  **NALYSIS AI* 0) (8020) (NAH) (NWTPH **Detivity) (TD: C) (Total PO- de) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb  g short list)	#DIV/0!  LLOWED PERMITPH-G) (Mary (Mary 1) (Mary 1) (Mary 1) (Mary 2) (Mary	#DIV/0!  ER BOTTLE  NWTPH-Gx PH-Dx) (TPH BOD) (Turbit dahl Nitroger 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  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard as rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (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 (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M VOC (Boein	#DIV/0!  **NALYSIS AI  **O) (8020) (N  AH) (NWTPH  **Letivity) (TD:  C) (Total PO-  **Letivity) (As) (Sb) (  **Letivity) (Sb) (  **Letivity) (Sc) (Sc) (Sc) (Sc) (Sc) (Sc) (Sc)	#DIV/0!  LLOWED PERMITPH-G) (Mary (Mary 1) (Mary 1) (Mary 1) (Mary 2) (Mary	#DIV/0!  ER BOTTLE  NWTPH-Gx PH-Dx) (TPH BOD) (Turbit dahl Nitroger 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  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard as rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (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 (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M VOC (Boein	#DIV/0!  **NALYSIS AI* 0) (8020) (NAH) (NWTPH **Detivity) (TD: C) (Total PO- de) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb  g short list)	#DIV/0!  LLOWED PERMITPH-G) (Mary (Mary 1) (Mary 1) (Mary 1) (Mary 2) (Mary	#DIV/0!  ER BOTTLE  NWTPH-Gx PH-Dx) (TPH BOD) (Turbit dahl Nitroger 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  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard as rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (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) (8010 (8270D) (PA  (pH) (Condu (COD) (Total Cyanical (Total Metals (Dissolved M VOC (Boein Methane Eth	#DIV/0!  **NALYSIS AI* 0) (8020) (NAH) (NWTPH **Detivity) (TD: C) (Total PO- de) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb  g short list)	#DIV/0!  LLOWED PERMITPH-G) (Mary (Mary 1) (Mary 1) (Mary 1) (Mary 2) (Mary	#DIV/0!  ER BOTTLE  NWTPH-Gx PH-Dx) (TPH BOD) (Turbit dahl Nitroger 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  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard as rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (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 (pH) (Condu (COD) (Total Cyanic (Total Metals (Dissolved M VOC (Boein	#DIV/0!  **NALYSIS AI* 0) (8020) (NAH) (NWTPH **Detivity) (TD: C) (Total PO- de) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb  g short list)	#DIV/0!  LLOWED PERMITPH-G) (Mary (Mary 1) (Mary 1) (Mary 1) (Mary 2) (Mary	#DIV/0!  ER BOTTLE  NWTPH-Gx PH-Dx) (TPH BOD) (Turbit dahl Nitroger 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  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard as rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (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 (pH) (Condu (Total Cyanic (Total Metals (Dissolved M VOC (Boein Methane Eth	#DIV/0!  **NALYSIS AI* 0) (8020) (NAH) (NWTPH **Detivity) (TD: C) (Total PO- de) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb  g short list)	#DIV/0!  LLOWED PERMITPH-G) (Mary (Mary 1) (Mary 1) (Mary 1) (Mary 2) (Mary	#DIV/0!  ER BOTTLE  NWTPH-Gx PH-Dx) (TPH BOD) (Turbit dahl Nitroger 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  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard as rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (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 (pH) (Condu (Total Cyanic (Total Metals (Dissolved M VOC (Boein Methane Eth	#DIV/0!  **NALYSIS AI* 0) (8020) (NAH) (NWTPH **Detivity) (TD: C) (Total PO- de) (WAD Cy ) (As) (Sb) ( etals) (As) (Sb  g short list)	#DIV/0!  LLOWED PERMITPH-G) (Mary (Mary 1) (Mary 1) (Mary 1) (Mary 2) (Mary	#DIV/0!  ER BOTTLE  NWTPH-Gx PH-Dx) (TPH BOD) (Turbit dahl Nitroger 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  (8141) (Oil & G ) (HCO3/CO3) (e/NO2)  (Pb) (Mg) (Mn) (	non-standard as rease) CI) (SO4) (NO	(Fe II)  nalysis below)  WA   WA   OB (NO2) (F)  TI) (V) (Zn) (H	Observations  OR  OR  OR  OR  OR  OR  OR  OR  OR  OR



Project Name	e <u>:</u>	Boeing Ren	iton		Project Number	:	0025217.099.0	99	
Event:		Feb. 2021		_	Date/Time:	2/ 15 /2021@	933		
Sample Num	nber:	RGW264S-	210215		Weather:	VERY COLD, S	NOW ON GR	OUND, RAIN	
Landau Repr	resentative:	BXM			_				
WATER LEV	EL/WELL/PI	IRGE DATA							
Well Conditio		Secure (YES	5)	Damaged (N	O)	Describe:	Flush Mount		
DTW Before	Purging (ft)	5.04	Time:	- '	Flow through cel			GW Meter No.(s	s SLOPE 8
Begin Purge:	0 0 0		908	End Purge:	_	2/ 15 /2021 @	930	Gallons Purged:	
Purge water d			55-gal Drum	Ě	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
	, ,	. ,	` 0 /	ters for three	. ,	ings within the fo		>/= 1 flow	observations
	+/- 3%	+/- 3%	+/- 10%	+/- 0.1 units	+/- 10 mV	+/- 10%	< 0.3 ft	through cell	
911	11.2	750	1.81	5.96	-29.0		5.95		
814	11.0	747	2.77	5.97	-32.3		6.24		
917	11.1	743	3.07	5.97	-38.7		6.51		
920	11.2	745	3.06	5.97	-42.0		6.66		
					-45.2		6.82	· <del></del>	
923	11.4	747	3.08	5.98	-43.2		0.82		
SAMPLE CO									
Sample Collec	cted With:		Bailer		Pump/Pump Type	_		·	
Made of:		Stainless Ste	el	PVC	Teflon	Polyethylene	Other	Dedicated	
Decon Proced	lure:	Alconox Wa	sh 🔲	Tap Rinse	DI Water	Dedicated			
(D., M									
(By Numerica		Other							
		_	r, sheen, etc.):	YELLOW T	INT, SOME MAT	ERIAL FLOATIN	G IN WATER,	EFFERVESCEN'	Γ, NO ODOR, NO SI
Sample Descr	ription (color,	turbidity, odo	· <del>-</del>						
		_	D.O. (mg/L)	YELLOW T	ORP (mV)	TURE TERIAL FLOATING TURBING (NTU)	G IN WATER,  DTW  (ft)	EFFERVESCEN' Ferrous iron (Fe II)	Γ, NO ODOR, NO SI  Comments/ Observations
Sample Descr	iption (color, t	turbidity, odor	D.O.		ORP	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr Replicate	Temp (°F/°C)	Cond. (uS/cm)	D.O. (mg/L)	<b>рН</b> 5.98	ORP (mV)	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr Replicate  1 2	Temp (°F/°C) 11.5	Cond. (uS/cm)  745	D.O. (mg/L) 3.05 3.04	<b>pH</b> 5.98 5.98	ORP (mV) -47.3	Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3	Temp (°F/°C) 11.5 11.5	Cond. (uS/cm)  745  743	D.O. (mg/L) 3.05 3.04 3.03	pH 5.98 5.98 5.98	ORP (mV) -47.3 -47.7 -47.8	Turbidity	DTW	Ferrous iron	Comments/
Sample Descr Replicate  1 2	Temp (°F/°C) 11.5 11.5 11.5	Cond. (uS/cm)  745  740  739	D.O. (mg/L) 3.05 3.04 3.03 3.00	pH  5.98  5.98  5.98  5.98	ORP (mV) -47.3 -47.7 -47.8 -48.3	Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3	Temp (°F/°C) 11.5 11.5	Cond. (uS/cm)  745  743	D.O. (mg/L) 3.05 3.04 3.03	pH 5.98 5.98 5.98	ORP (mV) -47.3 -47.7 -47.8	Turbidity	DTW	Ferrous iron	Comments/
Replicate  1 2 3 4 Average:	Temp (°F/°C) 11.5 11.5 11.5 11.5	Cond. (uS/cm)  745  743  740  739	D.O. (mg/L) 3.05 3.04 3.03 3.00 3.03	5.98 5.98 5.98 5.98 5.98	ORP (mV) -47.3 -47.7 -47.8 -48.3 -47.8	Turbidity	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate  1 2 3 4 Average:	Temp (°F/°C) 11.5 11.5 11.5 11.5 TYPICAL A	Cond. (uS/cm)  745  740  739  742  NALYSIS Al	D.O. (mg/L) 3.05 3.04 3.03 3.00 3.03	5.98 5.98 5.98 5.98 5.98 5.98	ORP (mV)  -47.3  -47.7  -47.8  -48.3  -47.8  TYPE (Circle ap	Turbidity (NTU)	DTW (ft)	Ferrous iron (Fe II)	Comments/
Replicate  1 2 3 4 Average:	Temp (°F/°C) 11.5 11.5 11.5 11.5 11.5 (8260) (8010 (8270D) (PA	Cond. (uS/cm)  745  743  740  739  742  NALYSIS AI  O) (8020) (N	D.O. (mg/L)  3.05  3.04  3.03  3.00  3.03  LLOWED PENWTPH-G) (H-D) (NWTF	5.98 5.98 5.98 5.98 5.98 ER BOTTLE NWTPH-GX PH-DX) (TPI	ORP (mV)  -47.3  -47.7  -47.8  -48.3  -47.8  TYPE (Circle ap (BTEX)  H-HCID) (8081)	Turbidity (NTU)  pplicable or write to (8141) (Oil & Gr	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Comments/ Observations
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  11.5  11.5  11.5  11.5  11.5  11.6  11.7  11.7  11.8  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu	Cond. (uS/cm)  745  743  740  739  742  NALYSIS AI  0) (8020) (N CH) (NWTPI nctivity) (TD	D.O. (mg/L)  3.05  3.04  3.03  3.00  3.03  LLOWED PENWTPH-G) (H-D) (NWTP	5.98 5.98 5.98 5.98 5.98 ER BOTTLE NWTPH-GX PH-Dx) (TPF	ORP (mV)  -47.3  -47.7  -47.8  -48.3  -47.8  TYPE (Circle ap (BTEX)  H-HCID) (8081) dity) (Alkalinity)	Turbidity (NTU)  pplicable or write 1  (8141) (Oil & Gill (HCO3/CO3) (Oil (MCO3/CO3))	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Comments/ Observations  OR
Replicate  1 2 3 4 Average:	Temp (°F/°C)  11.5  11.5  11.5  11.5  11.5  (8260) (8010 (8270D) (PA(PH) (Conduction) (Too	Cond. (uS/cm)  745  743  740  739  742  NALYSIS AI  0) (8020) (N CH) (NWTPI Control (NC) (Total PO-	D.O. (mg/L)  3.05  3.04  3.03  3.00  3.03  LLOWED PENWTPH-G) (H-D) (NWTF	5.98 5.98 5.98 5.98 5.98 ER BOTTLE NWTPH-Gx; PH-Dx) (TPFI GOD) (Turbidahl Nitroger	ORP (mV)  -47.3  -47.7  -47.8  -48.3  -47.8  TYPE (Circle ap (BTEX)  H-HCID) (8081)	Turbidity (NTU)  pplicable or write 1  (8141) (Oil & Gill (HCO3/CO3) (Oil (MCO3/CO3))	DTW (ft)	Ferrous iron (Fe II)  nalysis below)  WA  WA  WA	Comments/ Observations  OR
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  11.5  11.5  11.5  11.5  11.5  (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid	Cond. (uS/cm)  745  740  739  742  NALYSIS AI  0) (8020) (N AH) (NWTPI activity) (TD C) (Total PO-	D.O. (mg/L)  3.05  3.04  3.03  3.00  3.03  LLOWED PE WTPH-G) (H-D) (NWTF S) (TSS) (B 4) (Total Kie	5.98 5.98 5.98 5.98 5.98 CR BOTTLE NWTPH-GX PH-DX) (TPF GOD) (Turbid dahl Nitroger Cyanide)	ORP (mV)  -47.3  -47.7  -47.8  -48.3  -47.8  TYPE (Circle aportion (BTEX)  H-HCID) (8081)  dity) (Alkalinity)  (i) (NH3) (NO3/	Turbidity (NTU)  pplicable or write (8141) (Oil & G. (HCO3/CO3) (ONO2)	DTW (ft)  non-standard a  rease)  Cl) (SO4) (NO	Ferrous iron (Fe II)  nalysis 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 □
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  11.5  11.5  11.5  11.5  11.5  11.6  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanidal (Total Metals)	Cond. (uS/cm)  745  743  740  739  742  NALYSIS AI (D) (8020) (N CH) (NWTPI netivity) (TD (C) (Total PO- le) (WAD Cy () (As) (Sb) (	D.O. (mg/L) 3.05 3.04 3.03 3.00 3.03  LLOWED PERMYPH-G) (M-D) (NWTF) (S) (TSS) (B) (4) (Total Kieleranide) (Freel Ba) (Be) (Callerania)	5.98 5.98 5.98 5.98 5.98 ER BOTTLE NUTDH-GX PH-DX) (TPH GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -47.3  -47.7  -47.8  -48.3  -47.8  TYPE (Circle ap (BTEX)  H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU)  pplicable or write in the second s	DTW (ft)  non-standard a  rease) Cl) (SO4) (NC	Ferrous iron (Fe II)  nalysis 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 □ g) (K) (Na)
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  11.5  11.5  11.5  11.5  11.5  11.6  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Conduction (COD) (Total Cyanidal (Total Metals)	Cond. (uS/cm)  745  743  740  739  742  NALYSIS AI  (D) (8020) (N AH) (NWTPI  (nctivity) (TD (C) (Total PO- (le) (WAD C) () (As) (Sb) ( (etals) (As) (Sl)	D.O. (mg/L) 3.05 3.04 3.03 3.00 3.03  LLOWED PERMYPH-G) (M-D) (NWTF) (S) (TSS) (B) (4) (Total Kieleranide) (Freel Ba) (Be) (Callerania)	5.98 5.98 5.98 5.98 5.98 ER BOTTLE NUTDH-GX PH-DX) (TPH GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -47.3  -47.7  -47.8  -48.3  -47.8  TYPE (Circle ap (BTEX)  H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU)  pplicable or write in the second s	DTW (ft)  non-standard a  rease) Cl) (SO4) (NC	Ferrous iron (Fe II)  nalysis 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 □
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  11.5  11.5  11.5  11.5  11.5  11.5  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Todal Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  745  743  740  739  742  NALYSIS AI  (D) (8020) (N AH) (NWTPI  (nctivity) (TD (C) (Total PO- (le) (WAD C) () (As) (Sb) ( (etals) (As) (Sl)	D.O. (mg/L)  3.05  3.04  3.03  3.00  3.03  LLOWED PENWTPH-G) (M-D) (NWTPH-G) (M-D) (M-	5.98 5.98 5.98 5.98 5.98 ER BOTTLE NUTDH-GX PH-DX) (TPH GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -47.3  -47.7  -47.8  -48.3  -47.8  TYPE (Circle ap (BTEX)  H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU)  pplicable or write in the second s	DTW (ft)  non-standard a  rease) Cl) (SO4) (NC	Ferrous iron (Fe II)  nalysis 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 □ g) (K) (Na)
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  11.5  11.5  11.5  11.5  11.5  11.5  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Todal Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  745  743  740  739  742  NALYSIS AI (0) (8020) (N AH) (NWTPI (nctivity) (TD (C) (Total PO- (le) (WAD C) () (As) (Sb) ((etals) (As) (Sl () g short list)	D.O. (mg/L)  3.05  3.04  3.03  3.00  3.03  LLOWED PENWTPH-G) (M-D) (NWTPH-G) (M-D) (M-	5.98 5.98 5.98 5.98 5.98 ER BOTTLE NUTDH-GX PH-DX) (TPH GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -47.3  -47.7  -47.8  -48.3  -47.8  TYPE (Circle ap (BTEX)  H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU)  pplicable or write in the second s	DTW (ft)  non-standard a  rease) Cl) (SO4) (NC	Ferrous iron (Fe II)  nalysis 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 □ g) (K) (Na)
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  11.5  11.5  11.5  11.5  11.5  11.5  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Todal Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  745  743  740  739  742  NALYSIS AI (0) (8020) (N AH) (NWTPI (nctivity) (TD (C) (Total PO- (le) (WAD C) () (As) (Sb) ((etals) (As) (Sl () g short list)	D.O. (mg/L)  3.05  3.04  3.03  3.00  3.03  LLOWED PENWTPH-G) (M-D) (NWTPH-G) (M-D) (M-	5.98 5.98 5.98 5.98 5.98 ER BOTTLE NUTDH-GX PH-DX) (TPH GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -47.3  -47.7  -47.8  -48.3  -47.8  TYPE (Circle ap (BTEX)  H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU)  pplicable or write in the second s	DTW (ft)  non-standard a  rease) Cl) (SO4) (NC	Ferrous iron (Fe II)  nalysis 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 □ g) (K) (Na)
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  11.5  11.5  11.5  11.5  11.5  11.5  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Todal Cyanid (Total Metals (Dissolved M VOC (Boein	Cond. (uS/cm)  745  743  740  739  742  NALYSIS AI (0) (8020) (N AH) (NWTPI (nctivity) (TD (C) (Total PO- (le) (WAD C) () (As) (Sb) ((etals) (As) (Sl () g short list)	D.O. (mg/L)  3.05  3.04  3.03  3.00  3.03  LLOWED PENWTPH-G) (M-D) (NWTPH-G) (M-D) (M-	5.98 5.98 5.98 5.98 5.98 ER BOTTLE NUTDH-GX PH-DX) (TPH GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -47.3  -47.7  -47.8  -48.3  -47.8  TYPE (Circle ap (BTEX)  H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU)  pplicable or write in the second s	DTW (ft)  non-standard a  rease) Cl) (SO4) (NC	Ferrous iron (Fe II)  nalysis 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 □ g) (K) (Na)
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  11.5  11.5  11.5  11.5  11.5  11.5  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  745  743  740  739  742  NALYSIS AI (0) (8020) (N AH) (NWTPI (nctivity) (TD (C) (Total PO- (le) (WAD C) () (As) (Sb) ((etals) (As) (Sl () g short list)	D.O. (mg/L)  3.05  3.04  3.03  3.00  3.03  LLOWED PENWTPH-G) (M-D) (NWTPH-G) (M-D) (M-	5.98 5.98 5.98 5.98 5.98 ER BOTTLE NUTDH-GX PH-DX) (TPH GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -47.3  -47.7  -47.8  -48.3  -47.8  TYPE (Circle ap (BTEX)  H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU)  pplicable or write (8141) (Oil & G (HCO3/CO3) (G NO2)  Pb) (Mg) (Mn) (1	DTW (ft)  non-standard a  rease) Cl) (SO4) (NC	Ferrous iron (Fe II)  nalysis 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 □ g) (K) (Na)
Replicate  1 2 3 4 Average:  QUANTITY 3  1  Duplicate San	Temp (°F/°C)  11.5  11.5  11.5  11.5  11.5  11.5  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  745  743  740  739  742  NALYSIS AI (0) (8020) (N AH) (NWTPI (nctivity) (TD (C) (Total PO- (le) (WAD C) () (As) (Sb) ((etals) (As) (Sl () g short list)	D.O. (mg/L)  3.05  3.04  3.03  3.00  3.03  LLOWED PENWTPH-G) (M-D) (NWTPH-G) (M-D) (M-	5.98 5.98 5.98 5.98 5.98 ER BOTTLE NUTDH-GX PH-DX) (TPH GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -47.3  -47.7  -47.8  -48.3  -47.8  TYPE (Circle ap (BTEX)  H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU)  pplicable or write (8141) (Oil & G (HCO3/CO3) (G NO2)  Pb) (Mg) (Mn) (1	DTW (ft)  non-standard a  rease) Cl) (SO4) (NC	Ferrous iron (Fe II)  nalysis 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 □ g) (K) (Na)
Replicate  1 2 3 4 Average:  QUANTITY 3	Temp (°F/°C)  11.5  11.5  11.5  11.5  11.5  11.5  TYPICAL A (8260) (8010 (8270D) (PA (pH) (Condu (COD) (Total Cyanid (Total Metals (Dissolved M VOC (Boein Methane Eth	Cond. (uS/cm)  745  743  740  739  742  NALYSIS AI (0) (8020) (N AH) (NWTPI (nctivity) (TD (C) (Total PO- (le) (WAD C) () (As) (Sb) ((etals) (As) (Sl () g short list)	D.O. (mg/L)  3.05  3.04  3.03  3.00  3.03  LLOWED PENWTPH-G) (M-D) (NWTPH-G) (M-D) (M-	5.98 5.98 5.98 5.98 5.98 ER BOTTLE NUTDH-GX PH-DX) (TPH GOD) (Turbic dahl Nitroger Cyanide) a) (Cd) (Co)	ORP (mV)  -47.3  -47.7  -47.8  -48.3  -47.8  TYPE (Circle ap (BTEX)  H-HCID) (8081) dity) (Alkalinity) dity) (NH3) (NO3/	Turbidity (NTU)  pplicable or write in the second s	DTW (ft)  non-standard a  rease) Cl) (SO4) (NC	Ferrous iron (Fe II)  nalysis 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 □ g) (K) (Na)

wood.

# **Appendix C**



Memo

To: Kathleen Goodman, Project Manager Project: PS20203450.2021

From: Chelsea Foster c: Project File

Tel: (206) 342-1760 Fax: (206) 342-1761 Date: March 5, 2021

Subject: Summary Data Quality Review

February 2021 Boeing Renton Groundwater Sampling

SWMU-168

ARI Work Order Number: 21B0214

This memo presents the summary data quality review of one primary groundwater sample and one trip blank sample collected on February 15, 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
RGW230I-210215	21B0214-01	vinyl chloride
Tripblanks-210215	21B0214-02	vinyl chloride

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

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

ARI received the samples on February 15, 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
- 4. LCS/LCSD Acceptable
- 5. MS/MSD Acceptable

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

6. Field Duplicates – Acceptable

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

7. Reporting Limits and Laboratory Flags – Acceptable.

#### **Overall assessment of data**

The table below summarizes the data assessment. The completeness of ARI work order number 21B0214 is 100 percent. The usefulness of these data was evaluated based on EPA guidance documents listed in the introduction to this report. Few problems were identified, and analytical performance was generally within specified limits.

Sample ID	Qualified Analyte
RGW230I-210215	none
Trip Blanks	none

#### References

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

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

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#### Memo

To: Kathleen Goodman, Project Manager Pr

Project: PS20203450.2021

From: Chelsea Foster

c: Project File

Tel: (206) 342-1760 Fax: (206) 342-1761 Date: March 4, 2021

Subject: Summary Data Quality Review

February 2021 Boeing Renton Groundwater Sampling

SWMU-172/174

ARI Group Number: 21B0212

This memo presents the summary data quality review of nine primary groundwater samples, one groundwater field duplicate, and one trip blank sample collected on February 15, 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
Tripblanks-210215	21B0212-01	VOCs
RGW236S-210215	21B0212-02	all
RGW232S-210215	21B0212-03	all
RGW235I-210215	21B0212-04	all
RGW234S-210215	21B0212-05	all
RGW226S-210215	21B0212-06	all
RGW172S-210215	21B0212-07	all
RGWDUP1-210215	21B0212-08	all
RGW152S-210215	21B0212-09	all
RGW173S-210215	21B0212-10	all
RGW153S-210215	21B0212-11	all

Memo March 4, 2021 Page 2 of 4

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

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

ARI received the samples on February 15, 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
- 2. Blanks Acceptable
- 3. Surrogates Acceptable
- 4. LCS/LCSD Acceptable
- 5. MS/MSD Acceptable
- 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 (%)
	vinyl chloride	37.8	40.9	20	NC
RGW152S-210215/ RGWDUP1-210215	cis-1,2-dichloroethene	144	116	20	21.5
	trichloroethene	20.0 U	20.0 U	20	NC
	tetrachloroethene	81.2	66.6	20	NC

**Abbreviations** 

NC = not calculated ng/L = nanograms per liter RPD = relative percent difference

U = analyte was not detected above the reporting limit

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 total arsenic was within control limits. RPDs for TOC, total copper, and total lead were above control limits; primary and duplicate results for TOC, total copper, and total lead will be flagged with a "J".

Sample ID/ Field Duplicate ID	Analyte	Primary Result	Duplicate Result	Reporting Limit	RPD (%)
	TOC	9.10 mg/L	4.94 mg/L	0.50 mg/L	59
RGW152S-210215/	total arsenic	7.67 µg/L	6.90 µg/L	0.400 μg/L	11
RGWDUP1-210215	total copper	17.2 μg/L	12.6 μg/L	1.00 μg/L	31
	total lead	12.5 μg/L	9.16 μg/L	0.200 μg/L	31

Abbreviations:

 $\mu$ 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

#### **Overall assessment of data**

The table below summarizes the data assessment. The completeness of work order number 21B0212 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
Tripblanks-210215	none	NA	NA
RGW236S-210215	none	NA	NA
RGW232S-210215	none	NA	NA
RGW235I-210215	none	NA	NA
RGW234S-210215	none	NA	NA
RGW226S-210215	none	NA	NA
RGW172S-210215	none	NA	NA
RGWDUP1-210215	TOC Total copper Total lead	Field duplicate RPD	4.94 J mg/L 12.6 J μg/L 9.16 J μg/L
RGW152S-210215	TOC Total copper Total lead	Field duplicate RPD	9.10 J mg/L 17.2 J μg/L 12.5 J μg/L
RGW173S-210215	none	NA	NA
RGW153S-210215	none	NA	NA

#### **Abbreviations**

 $\mu$ g/L = micrograms per liter J = the value is an estimate mg/L = milligram per liter

NA = not applicable

RPD = relative percent difference

#### 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:

Project: F

PS20203450.2021

From: Chelsea Foster

c:

Project File

Tel: (206) 342-1760 Fax: (206) 342-1761 Date: March 4, 2021

Subject: Summary Data Quality Review

February 2021 Boeing Renton Groundwater Sampling

Building 4-78/79 SWMU/AOC Group

ARI Work Order Number: 21B0213 and 21B0219

This memo presents the summary data quality review of seven primary groundwater samples, one field duplicate groundwater sample, and two trip blank sample collected on February 15 and 16, 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
RGW244S-210215	21B0213-01	all
RGW240D-210215	21B0213-02	all
RGW034S-210215	21B0213-03	all
RGW143S-210215	21B0213-04	all
RGW031S-210215	21B0213-05	all
Tripblanks-210215	21B0213-06	VOCs and TPH-G
RGWDUP2-210215	21B0213-07	all
RGW033S-210216	21B0219-01	all
RGW237S-210216	21B0219-02	all
Tripblanks-210216	21B0219-03	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.

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 21B0213 on February 15, 2021, and the samples for work order 21B0219 on February 16, 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-G. Laboratory data were evaluated for the following parameters:

- 1. Preservation and Holding Times Acceptable
- 2. Blanks Acceptable
- 3. Surrogates Acceptable as noted:

Samples RGW031S-210215 and RGWDUP2-210215 each had one surrogate above control limits in the initial VOCs analysis. The samples were re-run and the same surrogate remained above control limits. It is recommended that the initial analysis results for RGW031S-210215 and RGWDUP2-210215 be used and flagged with a "J."

One surrogate in work order 21B0219, 4-Bromofluorobenzene, was below control limits in sample RGW237S-210216. The sample was reanalyzed with all surrogates within control limits; however, the reporting limits are above cleanup levels for the VOCs. The results from the first analysis should be reported and flagged with a "J."

4. LCS/LCSD – Acceptable as noted:

The LCSD percent recoveries were below control limits for cis-1,2-Dichloroethene, Benzene, and Trichloroethene in the second run of sample RGW237S-210216. The data from this run will not be used for reporting due to high reporting limits.

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 U	0.20	NC
	cis-1,2-dichloroethene	0.31	0.30	0.20	NC
RGW031S-210215/ RGWDUP2-210215	benzene	18.8	18.8	0.20	0
	trichloroethene	0.20 U	0.20 U	0.20	0
	TPH-G	2,340	2,380	100	2

#### **Abbreviations**

μg/L = micrograms per liter

NC = not calculated

RPD = relative percent difference

U = analyte was not detected above the reporting limit

TPH-G = total petroleum hydrocarbons as gasoline

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

Chlorobeneze was detected at high levels in samples RGW033S-210216 and RGW0237S-21016, which may have inflated the gasoline detections. The data is acceptable 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

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 RPD is acceptable.

Sample ID/	Analyte	Primary Result	Duplicate Result	Reporting Limit	RPD
Field Duplicate ID		(mg/L)	(mg /L)	(mg /L)	(%)
RGW031S-210215/ RGWDUP2-210215	ТОС	13.52	13.78	0.50	2

#### 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 21B0213 and 21B0219 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	Qualified Result (μg/L)	Qualifier Reason
RGW244S-210215	none	none	NA
RGW240D-210215	none	none	NA
RGW034S-210215	none	none	NA
RGW143S-210215	none	none	NA
RGW031S-210215	vinyl chloride cis-1,2-Dichloroethene benzene trichloroethene	0.20 UJ 0.31 J 18.8 J 0.20 UJ	Surrogate recovery
Tripblanks-210215	none	none	NA
RGWDUP2-210215	vinyl chloride cis-1,2-Dichloroethene benzene trichloroethene	0.20 UJ 0.30 J 18.8 J 0.20 UJ	Surrogate recovery
RGW033S-210216	none	NA	NA
RGW237S-210216	vinyl chloride cis-1,2-Dichloroethene benzene trichloroethene TPH-G	0.31 J 0.20 UJ 6.79 J 0.20 UJ 100 UJ	Surrogate recovery
Tripblanks-210216	none	NA	NA

Abbreviations:

μg/L = micrograms per liter

NA = not applicable

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), 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.



Memo

To: Kathleen Goodman, Project Manager

Project:

c:

PS20203450.2021

Project File

From: Chelsea Foster

(206) 342-1760 (206) 342-1761

Fax: Date:

Tel:

March 15, 2021

Subject:

Summary Data Quality Review

February 2021 Boeing Renton Groundwater Sampling

Former Fuel Farm AOC Group ARI Work Order Number: 21B0210

This memo presents the summary data quality review of three primary groundwater samples and one field duplicate collected on February 15, 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-210215	21B0210-01	all
RGW224S-210215	21B0210-02	all
RGW221S-210215	21B0210-03	all
RGWDUP3-210215	21B0210-04	all

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

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

ARI received the samples on February 15, 2021. The temperatures of the coolers were recorded upon receipt and were less than 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)	0.584	0.609	0.100	4.2
RGW224S-210215/ RGWDUP3-210215	TPH-O (C24–C38)	ND	ND	0.200	NC
	TPH-Jet A (C10-C18)	1.04	1.05	0.100	1

#### **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 21B0210 is 100 percent. Evaluation of the usefulness of these data is based on EPA guidance documents listed in the

introduction to this report. Few problems were identified, and analytical performance was generally within specified limits. The data meet the project's data quality objectives.

Sample ID	Qualified Analyte
RGW211S-210215	none
RGW224S-210215	none
RGW221S-210215	none
RGWDUP3-210215	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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Memo

Tel:

To: Kathleen Goodman, Project Manager Project:

c: PS20203450

PS20203450.2021

From: Chelsea Foster

(206) 342-1760

Fax: (206) 342-1761 Date: March 5, 2021

Subject:

Summary Data Quality Review

February 2021 Boeing Renton Groundwater Sampling

AOC-003

ARI Work Order Number: 21B0218

This memo presents the summary data quality review of four primary groundwater samples and one trip blank sample collected on February 16, 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
RGW248I-210216	21B0218-01	all
RGW247S-210216	21B0218-02	all
RGW188S-210216	21B0218-03	all
RGW249S-210216	21B0218-04	all
Tripblanks-210216	21B0218-05	vinyl chloride

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

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

ARI received the samples on February 16, 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 vinyl chloride. Laboratory data were evaluated for the following parameters:

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

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

6. Field Duplicates - Acceptable

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

7. Reporting Limits and Laboratory Flags – Acceptable

#### **Overall assessment of data**

The table below summarizes the data assessment. The completeness of work order number 21B0218 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
RGW248I-210216	none
RGW247S-210216	none
RGW188S-210216	none
RGW249S-210216	none
Tripblanks-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.

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

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Memo

To: Kathleen Goodman, Project Manager Project: F

Project: PS20203450.2021

From: Chelsea Foster

c: Project File

Tel: (206) 342-1760 Fax: (206) 342-1761 Date: March 5, 2021

Subject: Summary Data Quality Review

February 2021 Boeing Renton Groundwater Sampling

AOC-004

ARI Work Order Number: 21B0220

This memo presents the summary data quality review of one primary groundwater sample collected on February 16, 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-210216	21B0220-01	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 quidance documents (EPA, 2014).

ARI received the samples on February 16, 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 21B0220 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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Memo

Tel:

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To: Kathleen Goodman, Project Manager

Project: c: PS20203450.2021

From: Chelsea Foster

(206) 342-1760 (206) 342-1761 Project File

Date: N

March 5, 2021

Subject: Summary Data Quality Review

February 2021 Boeing Renton Groundwater Sampling

AOC-060

ARI Work Order Numbers: 21B0237

This memo presents the summary data quality review of six primary groundwater samples, one field duplicate, and one trip blank sample collected on February 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. 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
RGW009S-210217	21B0237-01	all
RGW150S-210217	21B0237-02	all
RGW253I-210217	21B0237-03	all
RGW012S-210217	21B0237-04	all
RGW147S-210217	21B0237-05	all
RGW014S-210217	21B0237-06	all
RGWDUP4-210217	21B0237-07	all
Trip Blanks-210217	21B0237-08	VOCs

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

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

Samples were received by ARI on February 17, 2021. The temperatures of the coolers were recorded upon receipt and were less than the maximum acceptable temperature of 6 degrees Celsius (°C), except for one cooler measuring 6.1°C. Six hours elapsed between collection of the earliest sample and delivery to the laboratory. The sample results were not affected by this temperature variance and are not qualified for use.

## **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 Tripblanks-210217 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
- 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	207	264	20.0	24
RGW014S-210217/ RGWDUP4-210217	cis-1,2-dichloroethene	130	162	20.0	22
	trichloroethene	35.0	41.1	20.0	NC

#### **Abbreviations**

ng/L = nanograms per liter

NC = not calculated

RPD = relative percent difference

7. Reporting Limits and Laboratory Flags – Acceptable

## **Inorganic analyses**

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

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

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-210217/ RGWDUP4-210217	тос	2.92	2.72	0.50	7

#### Abbreviations

mg/L = milligrams per liter RPD= relative percent difference TOC = total organic carbon 7. Reporting Limits – Acceptable as noted:

The sample RGW012S-210217 is flagged for a dilution in the TOC analysis. The sample was diluted at a factor of 10.57 due to higher levels of carbon present in the sample and the results are not flagged for use.

#### **Overall assessment of data**

A summary of the data assessment is presented in the table below. The completeness of work order number 21B0237 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
RGW009S-210217	none
RGW150S-210217	none
RGW253I-210217	none
RGW012S-210217	none
RGW147S-210217	none
RGW014S-210217	none
RGWDUP4-210217	none
Trip Blanks-210217	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.



#### Memo

To: Kathleen Goodman, Project Manager Project: PS20203450.2021

From: Chelsea Foster c: Project File

Tel: (206) 342-1760 Fax: (206) 342-1761 Date: March 12, 2021

Subject: Summary Data Quality Review

February 2021 Boeing Renton Groundwater Sampling

AOC-090

ARI Work Order Number: 21B0238

This memo summarizes the data quality review of five primary groundwater samples and a trip blank sample collected on February 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)
- 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
RGW208S-210217	21B0238-01	Vinyl chloride w/ SIM
RGW207S-210217	21B0238-02	Vinyl chloride w/ SIM
RGW178S-210217	21B0238-03	Vinyl chloride w/ SIM
RGW176S-210217	21B0238-04	Vinyl chloride w/ SIM
RGW189S-210217	21B0238-05	All
TripBlanks-210217	21B0238-06	VOCs and TPH

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 quidelines (EPA, 2014a and b).

ARI received the samples on February 17, 2021. The temperatures of the coolers were recorded upon receipt and were less than the maximum acceptable temperature of 6 degrees Celsius (°C), except for one cooler measuring 6.1 °C. Three hours elapsed between collection of the earliest sample and delivery to the laboratory. The sample results were not affected by this temperature variance and are not qualified for use.

## **Organic analyses**

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

- 1. Preservation and Holding Times Acceptable
- 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 multiple analytes in the VOC analysis, and the initial calibration exceeded the upper limit for the TPH-D 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 21B0238 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	Qualified Result¹ (μg/L)	Qualifier Reason
RGW208S-210217	none	NA	NA
RGW207S-210217	none	NA	NA
RGW178S-210217	none	NA	NA
RGW176S-210217	none	NA	NA
RGW189S-210217	Acetone	10.6 J	Continuing calibration below control limits
TripBlanks-210217	none	NA	NA

#### Notes:

1. Data qualifiers are as follows:

J = The value is an estimate.

#### <u>Abbreviations</u>

 $\mu$ g/L = micrograms per liter

J = estimate is

NA = not applicable

#### References

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

U.S. Environmental Protection Agency (EPA), 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.

wood.

**Appendix D** 

#### TABLE D-1: SWMU-168 HISTORICAL CONCENTRATIONS OF CONSTITUENTS OF CONCERN<sup>1, 2</sup>

Boeing Renton Facility, Renton, Washington

					Wel	l ID³									
	Current				CPOC	Area									
	Cleanup		GW229S												
Analyte	Level⁴	11/7/2016	3/1/2017	8/14/2017	3/5/2018	8/13/2018	3/4/2019	8/12/2019	3/9/2020						
<b>Volatile Organic Con</b>	npounds (µg/	'L)													
Vinyl Chloride	0.11	0.020 U	0.020 U	0.021	0.0273	0.020 U	0.0211	0.020 U	0.020 U						

						Well	ID <sup>3</sup>								
	Current					СРОС	Area								
	Cleanup		GW230I												
Analyte	Level⁴	11/7/2016	3/1/2017	8/14/2017	3/5/2018	8/13/2018	3/4/2019	8/12/2019	3/9/2020	8/10/2020	2/15/2021				
<b>Volatile Organic Com</b>	ipounds (μg/	L)													
Vinyl Chloride	0.11	0.032	0.020 U	0.20	0.0873	0.14	0.0566	0.336	0.087	0.162	0.076				

	Current				Wel CPOC	l ID <sup>3</sup> Area									
	Cleanup		GW231S												
Analyte	Level <sup>4</sup>	11/7/2016	3/1/2017	8/14/2017	3/5/2018	8/13/2018	3/4/2019	8/12/2019	3/9/2020						
<b>Volatile Organic Con</b>	npounds (µg/	′L)													
Vinyl Chloride	0.11	0.020 U	0.020 U	0.020 U	0.0393	0.0326	0.0327	0.026	0.020 U						

#### Notes:

- 1. Data qualifiers are as follows:
  - $\dot{U}$  = 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:

μg/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<sup>1, 2</sup>

Boeing Renton Facility, Renton, Washington

		I							V	Vell ID <sup>3</sup>							
	Current	<b>—</b>								urce Area							
	Cleanup	<u> </u>							301	urce Area							
	Cleanup				GW	152S							GW	153S			
Analyte	Level⁴	3/4/2019	5/6/2019	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	3/4/2019	5/6/2019	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021
<b>Volatile Organic Compour</b>	nds (µg/L)																
cis-1,2-Dichloroethene	0.03	0.678	0.655	0.627	0.530	0.892	0.719	1.66	0.144	0.107	0.108	0.278	0.204	0.0736	0.0789	0.0551	0.077
Tetrachloroethene	0.02	0.086	0.0594	0.176	0.384	1.12	2.38	0.319	0.081	0.020 U	0.020 U	0.0544	0.164	0.024	0.020 U	0.020 U	0.020 U
Trichloroethene	0.02	0.152	0.157	0.203	0.145	0.278	0.412	0.579	0.020 U	0.020 U	0.0212	0.0326	0.131	0.02 U	0.020 U	0.020 U	0.020 U
Vinyl Chloride	0.11	0.128	0.173	0.0705	0.0366	0.15	0.0463	0.284	0.0378	0.333	0.242	0.153	0.0859	0.249	0.266	0.135	0.220
Total Metals (μg/L)																	
Arsenic	1.0	7.54	4.49	23.4	7.48	3.84	1.95	6.72	7.67	4.49	5.97	4.72	11.9	5.48	3.85	4.05	32.8
Copper	3.5	5.12	2.35	21.8	16.6	8.03	2.76	7.45 J	17.2 J	2.00	1.25	1.58	10.2	3.09	1.73	1.68	33.9
Lead	1.0	3.33	1.26	14.8	12.1	6.13	1.09	3.89	12.5 J	0.352	0.198	0.351	2.76	0.712	0.372	0.326	5.80

									V	Vell ID <sup>3</sup>							
	Current								Downgrad	lient Plume A	rea						
	Cleanup				GW	172S							GW	173S			
Analyte	Level⁴	3/4/2019	5/6/2019	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	3/4/2019	5/6/2019	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021
<b>Volatile Organic Compour</b>	nds (µg/L)																
cis-1,2-Dichloroethene	0.03	0.111	0.0581	0.027	0.0561	0.305	0.214	0.0561	0.108	0.0756	0.037	0.022	0.0378	0.0504	0.0488	0.0313	0.0505
Tetrachloroethene	0.02	0.020 U	0.020 U	0.0451	0.0287	0.976	0.0625	0.0603	0.0624	0.0842	0.0416	0.0561	0.0246	0.0224	0.020 U	0.020 U	0.020 U
Trichloroethene	0.02	0.020 U	0.020 U	0.020 U	0.020 U	0.384	0.028	0.020 U	0.020 U	0.149	0.0742	0.0256	0.0379	0.0305	0.0215	0.0239	0.020 U
Vinyl Chloride	0.11	0.167	0.0808	0.0376	0.0905	0.209	0.369	0.0628	0.219	0.0312	0.0486	0.0613	0.072	0.144	0.126	0.0455	0.183
Total Metals (µg/L)																	
Arsenic	1.0	6.52	7.71	10.6	20.5	32.8	7.03	10.8	10.8	6.72	7.38	12.2	15.6	11.8	6.72	7.00	9.94
Copper	3.5	2.07	2.13	3.86	9.25	27.6	2.2	6.12	3.89	4.38	1.11	1.39	4.68	1.51	0.875	3.19	3.11
Lead	1.0	0.774	0.991	1.02	7.44	15.1	1.07	2.58	1.98	0.712	0.251	0.290	1.36	0.442	0.215	0.470	0.850

									V	Vell ID <sup>3</sup>							
	Current				Downgradier	nt Plume Are	a			1			CPO	C Area			
	Cleanup				GW	226S							GW	232 <b>S</b>			
Analyte	Level⁴	3/4/2019	5/6/2019	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	3/4/2019	5/6/2019	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021
<b>Volatile Organic Compoun</b>	nds (µg/L)																
cis-1,2-Dichloroethene	0.03	0.0387	0.0223	0.0259	0.0235	0.0396	0.0305	0.0218	0.020 U	0.250	0.319	0.378	0.659	0.221	0.352	0.482	0.219
Tetrachloroethene	0.02	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.0279	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
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 U	0.020 U	0.0331	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Vinyl Chloride	0.11	0.0432	0.0459	0.029	0.0615	0.038	0.0594	0.0415	0.0519	0.242	0.348	0.412	0.860	0.264	0.337	0.425	0.263
Total Metals (µg/L)																	
Arsenic	1.0	5.07	2.97	2.85	12.0	4.88	3.33	4.93	8.12	5.12	3.96	6.29	8.09	2.73	4.71	3.83	4.78
Copper	3.5	4.55	0.500 U	0.626	15.6	5.00	0.704	1.48	3.92	1.70	1.15	0.878	3.85	2.22	0.539	0.627	2.09
Lead	1.0	0.413	0.100 U	0.100 U	2.43	0.500	0.190	0.136	0.513	0.167	0.167	0.102	0.378	0.354	0.100 U	0.100 U	0.318

## TABLE D-2: SWMU-172 AND SWMU-174 GROUP HISTORICAL CONCENTRATIONS OF CONSTITUENTS OF CONCERN<sup>1, 2</sup>

Boeing Renton Facility, Renton, Washington

									V	Vell ID <sup>3</sup>							
	Current								СР	OC Area							
	Cleanup				GW	234S							GW	/235I			
Analyte	Level <sup>4</sup>	3/4/2019	5/6/2019	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021	3/4/2019	5/6/2019	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021
<b>Volatile Organic Compoun</b>	ıds (μg/L)																
cis-1,2-Dichloroethene	0.03	0.0869	0.0630	0.0738	0.0850	0.0984	0.092	0.0914	0.020 U	0.135	0.109	0.0638	0.109	0.127	0.156	0.104	0.128
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	0.020 U	0.0292
Trichloroethene	0.02	0.020 U	0.020 U	0.020 U	0.020 U	0.0297	0.020 U	0.020 U	0.020 U	0.0353	0.0342	0.020 U	0.0287	0.0336	0.031	0.0227	0.020 U
Vinyl Chloride	0.11	0.0273	0.0235	0.0252	0.0309	0.0302	0.032	0.0279	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
Total Metals (µg/L)																	
Arsenic	1.0	2.11	2.22	1.31	10.1	27.4	5.31	3.26	6.29	0.200 U	0.403	0.292	0.237	0.251	0.289	0.288	0.200 U
Copper	3.5	1.75	1.93	0.869	33.2	32.9	2.43	3.21	11.4	0.500 U	1.58	0.714	0.573	0.935	1.08	1.30	0.727
Lead	1.0	0.701	0.843	0.280	15.5	11.8	0.671	1.25	4.13	0.322	0.405	0.182	0.127	0.235	0.223	0.304	0.174

					We	II ID <sup>3</sup>			
	Current				СРО	C Area			
	Cleanup				GW	/236S			
Analyte	Level⁴	3/4/2019	5/6/2019	8/12/2019	11/11/2019	3/9/2020	5/11/2020	8/10/2020	2/15/2021
<b>Volatile Organic Compour</b>	ıds (μg/L)								
cis-1,2-Dichloroethene	0.03	0.0443	0.0281	0.0468	0.108	0.0241	0.036	0.0881	0.020 U
Tetrachloroethene	0.02	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Trichloroethene	0.02	0.020 U	0.0206	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	0.020 U	0.0437	0.020 U	0.020 U	0.020 U	0.020 U
Total Metals (µg/L)									
Arsenic	1.0	2.81	2.10	3.70	36.5	6.29	2.10	10.1	2.89
Copper	3.5	0.919	2.17	0.893	66.9	21.2	4.24	10.8	9.70
Lead	1.0	1.94	1.90	1.53	117	18.7	2.61	10.8	6.31

#### <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** 

 $\mu$ 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

	Current									l ID³ e Area							
	Cleanup				GW	031S			Sourc	e Alea				GW033S			
Analyte	Level <sup>4</sup>	3/5/2019	5/7/2019	8/13/2019	11/12/2019	3/11/2020	5/11/2020	8/11/2020	2/15/2021	3/5/2019	5/7/2019	8/13/2019	11/12/2019	3/11/2020	5/11/2020	8/11/2020	2/16/2021
<b>Volatile Organic Compound</b>	ds (µg/L)																
Benzene	0.80	55.9	7.13 3.47 4.77 37.1 17.6 1.72 J 18.8 J 11.7 12.5 10.4 11.5 10.2 9.75 12.5 11.0													11.0	
cis-1,2-Dichloroethene	0.70	0.20 U	0.43	0.47	0.40	0.61	0.40 J	0.67 J	0.31 J	0.79	0.41	0.78	2.78	21.4	39.5	188	1.64
Trichloroethene	0.23	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 UJ	0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.25	0.20 U
Vinyl Chloride	0.20	0.20 U	0.29	0.21	0.25	0.20 U	0.20 U	0.32 J	0.20 UJ	3.26	0.53	1.16	13.0	52.2	87.3	310	5.31
<b>Total Petroleum Hydrocark</b>	ons (µg/L)																
TPH-G (C7-C12)	800	4200	1020	1390	1540	2,980	1,880	1,160	2,340	395	297	277	347	296	301	255	323

	Current									l ID³ e Area							
	Cleanup				GW	034S							GW2	445			
Analyte	Level⁴	3/5/2019	5/7/2019	/2019 8/13/2019 11/12/2019 3/11/2020 5/11/2020 8/11/2020 2/15/2021 3/5/2019 5/7/2019 8/13/2019 11/12/2019 3/11/2020 5/11/2020 8/11/2020 2/15/2021 3/5/2019 5/7/2019 8/13/2019 11/12/2019 3/11/2020 5/11/2020 8/11/2020 2/15/2021													2/15/2021
<b>Volatile Organic Compound</b>	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	1.73	1.47	1.77	0.87	0.52	0.46	0.43	0.46
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	0.82	2.03	0.37	0.20 U	0.68	1.06	1.12	0.68
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	0.22	0.20 U	0.20 U	0.20 U	0.23	0.20 U	0.20 U	0.29
Vinyl Chloride	0.20	0.20	0.20 U	0.39	0.39	0.20 U	0.21	0.41	0.25	0.86	1.45	0.71	0.35	0.7	0.85	0.98	0.64
<b>Total Petroleum Hydrocark</b>	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										Well ID <sup>3</sup>									
											CPOC Area									
	Cleanup						GW143S									GW	237S			
Analyte	Level⁴	5/7/2018	8/14/2018	11/13/2018	3/5/2019	5/7/2019	8/13/2019	11/12/2019	3/10/2020	5/11/2020	8/11/2020	2/15/2021	3/5/2019	5/7/2019	8/13/2019	11/12/2019	3/10/2020	5/11/2020	8/11/2020	2/16/2021
<b>Volatile Organic Compoun</b>	ds (µg/L)																			
Benzene	0.80	0.20 U	0.20 U 0.														6.79 J			
cis-1,2-Dichloroethene	0.70	0.33	1.82	0.20 U	0.20 U	0.20 U	2.20	0.20 U	0.21	0.20 U	1.17	0.26	0.21	0.20 U	0.25	0.22	1.00 U	0.20 U	0.20 U	0.20 UJ
Trichloroethene	0.23	0.20 U	0.60	0.20 U	0.20 U	0.20 U	1.05	0.20 U	0.20 U	0.20 U	0.23	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.00 U	0.20 U	0.20 U	0.20 UJ
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	0.20 U	0.20 U	0.25	0.20 U	0.38	0.34	1.00 U	0.20 U	0.20 U	0.31 J
<b>Total Petroleum Hydrocarl</b>	bons (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	1,680	100 U	329	100 U	961	729	100 U	100 UJ

	Current						Well ID <sup>3</sup> CPOC Area					
	Cleanup						GW240D					
Analyte	Level⁴	5/7/2018	8/14/2018	11/13/2018	3/5/2019	5/7/2019	8/13/2019	11/12/2019	3/10/2020	5/11/2020	8/11/2020	2/15/2021
<b>Volatile Organic Compound</b>	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	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	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	0.20 U	0.20 U	0.20 U
Vinyl Chloride	0.20	0.23	0.23	0.24	0.23	0.27	0.26	0.24	0.20 U	0.20 U	0.20 U	0.20 U
<b>Total Petroleum Hydrocark</b>	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	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 CONCERN<sup>1</sup>

Boeing Renton Facility, Renton, Washington

									We	II ID²							
									CPO	C Area							
	Current Cleanup				GW:	2115							GW:	221S			
Analyte	Level <sup>3</sup>	11/14/2017	5/7/2018	11/12/2018	5/7/2019	11/11/2019	5/11/2020	8/10/2020	2/15/2021	11/14/2017	5/7/2018	11/12/2018	5/7/2019	11/11/2019	5/11/2020	8/10/2020	2/15/2021
<b>Total Petroleum Hydrocar</b>	bons (mg/L)																
TPH-D (C12-C24)	0.5	0.903	0.272	0.341	0.124	0.120	0.282	0.192	0.284	3.63	0.746	1.50	0.630	1.65	1.58	7.67	1.22
Jet A	0.5	0.245	0.214	0.191	0.117	0.117	0.267	0.155	0.262	2.12	0.635	0.863	0.397	1.09	1.09	5.70	0.89

					Wel	l ID²									
					CPOC	Area									
	Current Cleanup	GWZZ43													
Analyte	Level <sup>3</sup>	11/14/2017   5/7/2018   11/12/2018   5/7/2019   11/11/2019   5/11/2020   8/10/2020   2/15/2021													
<b>Total Petroleum Hydrocarl</b>	bons (mg/L)														
TPH-D (C12-C24)	0.5	1.84	0.560	1.56	0.256	1.46	0.675	1.08	0.584						
Jet A	0.5	1.97	0.933	1.64	0.388	1.80	0.918 J	1.42	1.04						

#### Notes

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

#### **Abbreviations**

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<sup>1, 2</sup>

Boeing Renton Facility, Renton, Washington

										Well I	D <sup>3</sup>								
	[					Source Area								Downgr	adient Plume	e Area			
	Current					GW249S									GW188S				
Analyte	Cleanup Level⁴	3/7/2018	5/8/2018	8/15/2018	11/13/2018	3/5/2019	8/14/2019	3/12/2020	8/10/2020	2/16/2021	3/7/2018	5/8/2018	8/15/2018	11/13/2018	3/5/2019	8/14/2019	3/12/2020	8/10/2020	2/16/2021
<b>Volatile Organic Compoun</b>	nds (µg/L)																		
cis-1,2-Dichloroethene	0.78	0.102	0.0757	0.0524	0.0829	0.079	0.0526	0.0604	NA	NA	0.0606	0.0531	0.0386	0.0636	0.0493	0.0361	0.0362	NA	NA
Tetrachloroethene	0.02	0.0496	0.020 U	0.020 U	0.020 U	0.0105	0.020 U	0.020 U	NA	NA	0.020 U	0.020 U	0.020 U	0.020 U	0.0107	0.020 U	0.0244	NA	NA
Trichloroethene	0.16	0.0475	0.0211	0.020 U	0.020 U	0.0157	0.020 U	0.020 U	NA	NA	0.020 U	0.020 U	0.020 U	0.020 U	0.0125	0.020 U	0.020 U	NA	NA
Vinyl Chloride	0.24	0.114	0.428	0.413	0.629	0.424	0.367	0.334	0.261	0.366	0.443	0.505	0.404	0.813	0.537	0.545	0.235	0.288	0.107

									Well	ID <sup>3</sup>							
	[								СРОС	Area							
	Current				GW2	47S							GW2	48I			
Analyte	Cleanup Level <sup>4</sup>	3/5/2019	5/8/2019	8/14/2019	11/12/2019	3/12/2020	5/13/2020	8/10/2020	2/16/2021	3/5/2019	5/8/2019	8/14/2019	11/12/2019	3/12/2020	5/13/2020	8/10/2020	2/16/2021
<b>Volatile Organic Compour</b>	nds (µg/L)																
cis-1,2-Dichloroethene	0.78	0.0728	0.0584	0.065	0.0635	0.039	0.584	NA	NA	0.020 U	0.020 U	0.020 U	0.020 U	0.02 U	0.020 U	NA	NA
Tetrachloroethene	0.02	0.126	0.020 U	0.020 U	0.020 U	0.02 U	0.020 U	NA	NA	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NA	NA
Trichloroethene	0.16	0.018	0.020 U	0.020 U	0.148	0.02 U	0.020 U	NA	NA	0.020 U	0.020 U	0.020 U	0.0514	0.020 U	0.020 U	NA	NA
Vinyl Chloride	0.24	0.392	0.497	0.613	0.504	0.305	0.409	0.392	0.405	0.707	0.551	0.541	0.62	0.499	0.546	0.383	0.426

#### **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>

 $\mu$ 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 CONCERN<sup>1</sup>

Boeing Renton Facility, Renton, Washington

						Wel	l ID²										
	Current					Sourc	e Area										
	Cleanup		GW250S														
Analyte	Level <sup>3</sup>	11/10/2016 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															
Metals (mg/L)																	
Lead	0.001	0.0020	0.0030	0.00026	0.000941	0.00107	0.00154	0.000714	0.00119	0.000611	0.000564						

#### 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<sup>1, 2</sup>

Boeing Renton Facility, Renton, Washington

						Wel	I ID³									
	Current					Source	e Area									
	Cleanup		GW009S 23/2016 3/6/2017 8/16/2017 3/6/2018 8/14/2018 3/5/2019 8/14/2019 3/10/2020 8/11/2020 2/17/202°													
Analyte	Levels <sup>4</sup>	8/23/2016	3/6/2017	8/16/2017	3/6/2018	8/14/2018	3/5/2019	8/14/2019	3/10/2020	8/11/2020	2/17/2021					
Volatile Organic Compour	nds (µg/L)															
cis -1,2-Dichloroethene	0.08	0.16	0.093	0.15	0.0948	0.126	0.107	0.127	0.093	0.124	0.139					
Trichloroethene	0.02	0.032	0.022	0.033	0.0252	0.0238	0.0239	0.020 U	0.0242	0.0324	0.0294					
Vinyl Chloride	0.26	0.40	0.26	0.39	0.241 J	0.318	0.285	0.300	0.183	0.219	0.300					

															Well ID <sup>3</sup>													
	Current													Downg	radient Plun	ne Area												
	Cleanup		GW012S 7   8/16/2017   3/6/2018   8/14/2018   3/5/2019   8/14/2019   3/10/2020   8/11/2020								Ι				GW014S									GW147S				
Analyte	Levels⁴	3/6/2017	8/16/2017	3/6/2018	8/14/2018	3/5/2019	8/14/2019	3/10/2020	8/11/2020	2/17/2021	3/6/2017	8/16/2017	3/6/2018	8/14/2018	3/5/2019	8/14/2019	3/10/2020	8/11/2020	2/17/2021	3/6/2017	8/16/2017	3/6/2018	8/14/2018	3/5/2019	8/14/2019	3/10/2020	8/11/2020	2/17/2021
<b>Volatile Organic Compoun</b>	ıds (μg/L)																											
cis -1,2-Dichloroethene	80.0	1.6	0.95	0.609	1.29	1.23	0.798	0.482	0.508	1.260	0.13	0.18	0.134	0.122	0.119	0.143	0.151	0.0932	0.130	0.16	3.0	0.211	4.63	0.955	4.11	0.287	0.931	0.180
Trichloroethene	0.02	0.11	0.098	0.0568	0.656	0.0546	0.0471	0.0505	0.0518	0.0454	0.043	0.039	0.0347	0.0273	0.0254	0.020 U	0.0419	0.020 U	0.035	1.5	2.6	1.91	4.23	0.475	1.46	1.20	3.37	0.498
Vinyl Chloride	0.26	2.0	1.4	0.586	0.605	1.35	0.893	0.603	0.387	0.180	0.30	0.31	0.266	0.232 J	0.214	0.365	0.195	0.190	0.207	0.020 U	0.21	0.020 U	1.07 J	0.0514	0.215	0.020 U	0.0643	0.020 U

	Current									Wel									
	Cleanup					GW150S									GW253I				
Analyte	Levels <sup>4</sup>	3/6/2017	8/16/2017	3/6/2018	8/14/2018	3/5/2019	8/14/2019	3/10/2020	8/11/2020	2/17/2021	3/6/2017	8/16/2017	3/6/2018	8/14/2018	3/5/2019	8/14/2019	3/10/2020	8/11/2020	2/17/2021
<b>Volatile Organic Compoun</b>	ıds (μg/L)																		
cis -1,2-Dichloroethene	0.08	0.055	0.091	0.0388	0.0506	0.0737	0.0824	0.0525	0.0935	0.0393	0.10	0.11	0.0991	0.0796	0.127	0.0917	0.0915	0.0879	0.140
Trichloroethene	0.02	0.020 U	0.026	0.020 U	0.0305	0.020 U	0.0228	0.02 U	0.0291	0.020 U	0.024	0.029	0.020 U	0.0204	0.0221	0.020 U	0.0212	0.0211	0.0272
Vinyl Chloride	0.26	0.092	0.096	0.0596	0.0203	0.103	0.020 U	0.0541	0.0619	0.0455	0.13	0.14	0.132	0.113	0.143	0.131	0.184	0.100	0.243

#### Notes:

- 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<sup>1, 2</sup>

Boeing Renton Facility, Renton, Washington

									Wel	l ID <sup>3</sup>							
	Current				Sourc	e Area							Downgradier	nt Plume Are	a		
	Cleanup				GW1	189S⁵							GW	176S			
Analyte	Levels <sup>4</sup>	8/15/2017	3/5/2018	8/13/2018	3/5/2019	8/12/2019	3/11/2020	8/12/2020	2/17/2021	8/15/2017	3/5/2018	8/13/2018	3/5/2019	8/12/2019	3/11/2020	8/12/2020	2/17/2021
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	0.020 U	NM	NM
1,1,2-Trichloroethane	0.2	0.20 U	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
1,1-Dichloroethene	0.057	0.020 U	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
Acetone	300	5.0 U	5.00 U	70	5.00 U	5.0 U	5.0 U	5.00 U	10.6 J	5.38	5.00 U	5.00 U	5.00 U	5.0 U	5.0 U	NM	NM
Benzene	0.8	1.69	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
Carbon Tetrachloride	0.23	0.20 U	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
Chloroform	2	0.20 U	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
cis-1,2-Dichloroethene	2.4	2.23	1.74	22.3	0.92	6.87	0.20 U	1.93	0.47	0.34	0.26	0.27	0.25	0.27	0.25	NM	NM
Methylene Chloride	2	1.0 U	1.00 U	10.9 UJ	1.00 U	1.0 U	1.0 U	1.00 U	1.00 U	1.0 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	NM	NM
Tetrachloroethene	0.05	0.020 U	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
Toluene	75	2.84	6.34	21.7	4.96	3.11	0.20 U	1.05	5.21	0.20 U	0.42	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM
trans-1,2-Dichloroethene	53.9	0.40	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
Trichloroethene	0.08	0.279	0.224	2.38	0.156	0.414	0.0745	0.324	0.143	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM
Vinyl Chloride	0.13	1.00	0.508 J	2.09 J	0.50	1.20	0.020 U	0.369	0.0405	0.286	0.208	0.230	0.294	0.301	0.207	0.232	0.138
Total Petroleum Hydrocarbon	s (µg/L)																
TPH-G (C7-C12)	800	2,010	1,860	9,440	1,070	943	189	699	507	100 U	100 U	100 U	100 U	100 U	100 U	NM	NM
TPH-D (C12-C24)	500	689	200	4,120	362	432	100 U	150	2160	100 U	100 U	100 U	100 UJ	100 U	100 U	NM	NM
TPH-O (C24-C40)	500	949	298	2,000 U	522	853	200 U	379	3990	200 U	200 U	200 U	200 UJ	200 U	200 U	NM	NM

	Current												Wel	I ID <sup>3</sup> e CPOC Area											
	Cleanup				GW	178S							<del></del>	207S	<u> </u>						GW	208S			
Analyte	Levels <sup>4</sup>	8/15/2017	3/5/2018	8/13/2018	3/5/2019	8/12/2019	3/11/2020	8/12/2020	2/17/2021	8/15/2017	3/5/2018	8/13/2018	3/5/2019	8/12/2019	3/11/2020	8/12/2020	2/17/2021	8/15/2017	3/5/2018	8/13/2018	3/5/2019	8/12/2019	3/11/2020	8/12/2020	2/17/2021
<b>Volatile Organic Compounds (</b>	ıg/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	NM	NM	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM
1,1,2-Trichloroethane	0.2	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM
1,1-Dichloroethene	0.057	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	0.020 U	0.020 U	0.023	0.020 U	0.020 U	0.020 U	NM	NM	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM
Acetone	300	5.0 U	5.00 U	5.00 U	5.54	5.0 U	5.0 U	NM	NM	5.0 U	5.00 U	5.00 U	5.00 U	5.0 U	5.0 U	NM	NM	5.0 U	5.00 U	5.00 U	5.00 U	5.0 U	5.0 U	NM	NM
Benzene	8.0	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM
Carbon Tetrachloride	0.23	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM
Chloroform	2	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM
cis-1,2-Dichloroethene	2.4	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	0.29	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	0.23	0.20	0.20 U	0.21	0.20 U	0.20 U	NM	NM
Methylene Chloride	2	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NM	NM	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	NM	NM	1.0 U	1.00 U	1.00 U	1.00 U	1.0 U	1.0 U	NM	NM
Tetrachloroethene	0.05	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	NM	NM
Toluene	75	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM
trans-1,2-Dichloroethene	53.9	0.26	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NM	NM
Trichloroethene	0.08	0.0277	0.0214	0.0213	0.0213	0.020 U	0.021	NM	NM	0.0412	0.020 U	0.0388	0.020 U	0.0305	0.020 U	NM	NM	0.0281	0.020 U	0.0234	0.020 U	0.0293	0.020 U	NM	NM
Vinyl Chloride	0.13	0.191	0.409	0.378	0.392	0.3840	0.1840	0.141	0.224	0.2380	0.0300	0.311 J	0.0692	0.020 U	0.020 U	0.377	0.066	0.330	0.388	0.097	0.437	0.245	0.419	0.343	0.349
<b>Total Petroleum Hydrocarbons</b>	(µg/L)																								
TPH-G (C7-C12)	800	100 U	100 U	100 U	100 U	100 U	100 U	NM	NM	100 U	100 U	100 U	100 U	100 U	100 U	NM	NM	100 U	100 U	100 U	100 U	100 U	100 U	NM	NM
TPH-D (C12-C24)	500	100 U	100 U	100 U	100 UJ	100 U	100 U	NM	NM	100 U	100 U	100 U	100 UJ	100 U	100 U	NM	NM	100 U	100 U	100 U	100 UJ	100 U	100 U	NM	NM
TPH-O (C24-C40)	500	200 U	200 U	200 U	200 UJ	200 U	200 U	NM	NM	200 U	200 U	200 U	200 UJ	200 U	200 U	NM	NM	200 U	200 U	200 U	200 UJ	200 U	200 U	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 CONCERN<sup>1</sup>

Boeing Renton Facility, Renton, Washington

				w	ell ID²			
				G\	W264S			
Analyte	11/14/2017	5/7/2018	11/13/2018	5/7/2019	11/11/2019	5/12/2020	8/10/2020	2/15/2021
<b>Volatile Organic Compound</b>	nds (µg/L)							
cis-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.52	0.20 U
Vinyl Chloride	0.97	1.63	0.55	1.39	0.38	1.48	0.20 U	1.49

#### Notes:

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

#### Abbreviations:

 $\mu$ g/L = micrograms per liter

wood.

# **Appendix E**

#### **APPENDIX E**

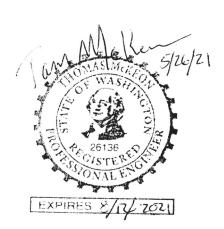
# Summary of Remedial Actions at the Boeing Renton Facility October 2020 – April 2021

Boeing Renton Site Renton, Washington

Prepared for:
The Boeing Company
EHS Remediation

Prepared by: CALIBRE Systems, Inc. Project No. T0014323

May 15, 2021



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

#### Acronyms

AOC Area of Concern

Building 4-78/4-79 SWMU/AOC Group Building 4-78/79

**CALIBRE** CALIBRE Systems, Inc.

CMP Compliance Monitoring Plan EDR **Engineering Design Report** 

ERD **Enhanced Reductive Dechlorination** 

GAC granular activated carbon

milligrams per liter mg/L PCE Tetrachloroethene Photoionization detector PID 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 October 1, 2020 and April 30, 2021. The ongoing remedial actions include:

- 1. Operation of one 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
Lot 20/Former Building 10-71
AOC-060
AOC-090
Building 4-70, and
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

Attachment B – Laboratory Data Packages

#### 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 October 2020 to April 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 treatment was originally included in the design to treat potential vinyl chloride that would not be captured in 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. The SVE system was turned off momentarily between December 21, 2020 to January 5, 2021 for Boeing's holiday break and then on February 10 to 18, 2021 due to freezing temperatures and low land snow forecasted for the area. Both shut down periods were implemented in response to potential limited access to the site for monitoring. 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

A total of three samples for TO-15 analysis were collected during this operating period. The samples were collected following system restart after the Boeing Christmas break in order to monitor any rebound in VOC concentrations. Samples were collected at approximately 30 minutes, 2 hours and 2 days after restart. The 30 minute sample results (5-09-Influent-A) showed tetrachloroethene (PCE) represented approximately 85% of the total VOCs for the SWMU-172/174 SVE system influent, similar in distribution to prior monitoring events. The 2 hour sample (5-09-Influent-B) showed a significant reduction in PCE and total VOCs from the prior 30 minute sample. PCE dropped from 83 ppbv to 1.6 ppbv and total VOCs dropped from 98 ppbv to 5.2 ppbv in these first two samples. This magnitude of a concentration reduction in the 1 ½-hour time between samples is suspect and could potentially have been caused by a leak in the vacuum sampling lines or fittings. Sampling line connection points between the summa can, Teflon tubing, and sample port will be double checked for tightness for future TO-15 sampling events. The 2-day sample (5-09-Influent-C) showed PCE and other chlorinated VOCs slightly reduced from the 30 minute sample. In addition, there were a number of fuel related compounds detected in this third sample which have not historically been detected at the site. The laboratory case narrative stated the hydrocarbon profile present in this sample did not resemble that of commercial gasoline and the results were calculated using the response factor derived from gasoline calibration. It is unclear if the sample was contaminated at some point during collection however additional samples for TO-15 analysis will be collected during the next reporting period to monitor for these VOCs at the site. Table 2-1 summarizes the TO-15 detections for the SWMU-172/174 SVE system for 18 TO-15 sampling events<sup>1</sup> that have been implemented since system startup. The samples were analyzed by EuroFins Air Toxics and the laboratory report is included in Attachment B.

#### 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 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 reduce to previous low-level detections.

During this reporting period, October 2020 to April 2021, the system operated with SVE-1 as an air inlet well with extraction at SVE-2 and SVE-3 for a majority of the time. SVE-1 was operated briefly in December 2020 and January 2021 however no significant vapor concentrations were observed with the PID and therefore the system was adjusted to continue to operate through SVE-2 and SVE-3. PID vapor concentrations remained low and relatively unchanged at the operating wells and system influent during this operating period. Operational changes may be completed in the following reporting period in the

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<sup>&</sup>lt;sup>1</sup> 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.

event these concentrations remain at asymptotic levels. 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 May 4, 2021 the SWMU-172/174 SVE system has recovered an estimated 22.2 pounds of VOCs (primarily PCE), as shown in Table 2-3. Approximately 1.2 pounds of VOCs were removed during the current reporting period (October to April 2021) based on the PID measurements collected while the system was operating. The PID results from February 25, 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. 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.

#### 2.2 Recommended Next Steps for the SVE Systems

Vapor concentrations measured with PID in October 2020 to April 2021 show SVE-2, SVE-3, and the system influent have remained at reduced levels similar to prior low-level concentrations. TO-15 results from January 2021 show PCE and the total CVOCs are reduced at the system influent compared to September 2020. If the PID measurements remain at asymptotic levels, the system will be modified to alternate flows between wells as has been done in the past (i.e. SVE-3 is extracting and will be changed to an inlet vent and vice versa for SVE-1). Summa can samples for TO-15 analysis will be planned for the next reporting period to monitor changes in vapor concentrations, if observed.

Additional modifications to the operation of this system should be considered to continue increased mass removal in the area between SVE-2 and SVE-3. These modifications may include opening SVE-1 and SVE-3 as an inlet vent or SVE-1 and SVE-2 as an inlet vent, to focus vapor removal in that area. It may also be beneficial to operate the SVE system in a pulsed mode in order to allow vapor concentrations to rebound followed by running the system for a period of time.

#### 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 and continued treatment is evaluated on a semi-annual basis following review of groundwater sampling results (see Table 3-4). The ERD treatment involves substrate injection using sucrose/fructose as a carbon source to stimulate biological degradation of the chlorinated solvents. Substrate injections were completed at selected wells in January 2021 at Building 4-78/79 including wells B78-12, B78-14, B78-15, B78-16 and one down gradient monitoring well (GW-033s) was bio-augmented with microbes. The substrate used was a food-grade sucrose/fructose

mixed into eight 250-gallon totes to a target concentration of approximately 7 - 9 Brix<sup>2</sup> (°Bx). All substrate was filtered, mixed with a mono potassium phosphate (MKP) buffer/ pH adjustment and mixed with water prior to injection. Each well received approximately 250 gallons of chase water following substrate injections to promote transport of the substrate into the aquifer and to help prevent bio-fouling of the injection well screen. The list of wells by area including substrate volume and mass are summarized in Table 3-1.

Following substrate and chase water injections at these wells, GW-033s was bio-augmented with a TSI-DC®, a microbial culture containing species of Dehalococcoides. For the bio-augmentation process, tap water was mixed with sodium ascorbate following the manufacturer's recommendations to quench residual oxygen and chlorine in the water. Six liters (L) of TSI-DC® culture were added to the well based on a target abundance of  $3 \times 10^6$  organisms/liter (in-situ after mixing in the aquifer).

Beginning in late 2017, anaerobic biodegradation of benzene using nitrate and sulfate injections was implemented for a small area at the 4-78/79 Building. Boeing has continued additional nitrate/sulfate injections in the area; the most recent injection was completed in January 2021 (ninth event) with a target concentration of 1,600 mg/L for nitrate and 800 mg/L for sulfate per well (similar to what was injected in August 2020) to provide additional nitrate and sulfate to the impacted area, see Table 3-2. Each well received approximately 100 gallons of chase water following injections to help prevent bio-fouling of the injection well screen. Performance monitoring was completed at the injection and monitoring wells at this area in April 2021 and those results are summarized in Table 3-3. The results show benzene is below baseline concentrations in seven of the nine wells monitored in this area with reductions ranging from 36% to 99%.

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 3-4 presents a summary of those groundwater monitoring results, by area, related to groundwater treatment/ERD implementation.

#### 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 October 2020 to April 2021 operating period. Samples for TO-15 analysis collected in January 2021 show total CVOCs have reduced below the May 2020 rebound samples and September 2020 samples at the system influent. Additional modifications to increase flushing between extraction wells SVE-2 and SVE-3, based on the elevated PCE detections observed during the soil confirmation sampling event in the second quarter of 2018, will be evaluated if the system continues to show asymptotic low level vapor concentrations at the current operating extraction wells. If the additional modifications to altering flow patterns at extraction wells do not show elevated and sustained VOC mass

<sup>&</sup>lt;sup>2</sup> °Bx (degrees Brix) One degree Brix is 1 gram of sucrose in 100 grams of solution and represents the strength of the solution as percentage by mass as measured with a field instrument (a Brix meter).

removal the SVE system may be operated in a pulsed mode in order to allow vapor concentrations to rebound followed by running the system for a period of time.

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.

Substrate injections for ERD treatment were completed at Building 4-78/79 in this reporting period. In addition, a ninth round of nitrate/sulfate injections for benzene treatment at the Building 4-78/79 area was completed at the end of January 2021 with collection of performance monitoring data in April 2021. A limited source area excavation at the Building 4-78/79 benzene treatment area is planned for Fall 2021, dependent on water table elevations (CALIBRE, 2019). Limited source area removal is planned for Fall 2021 and decisions about future injections will include review of post excavation groundwater sampling results Additional substrate and/or nitrate/sulfate injections will be considered following the review of the monitoring results from site-wide sampling and post excavation sampling.

#### 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.

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

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

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

### **TABLES**

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

sv	F	Ç,	uct	tο	m	In	Ot	

5/21/20 - Rebound 48

9/23/2020 42 6.7 5.6 ND ND ND ND ND ND ND ND ND

SVE System Inlet																								
Date	PCE	TCE	cis-1,2- DCE	trans-1,2- DCE	Vinyl Chloride	1,1,1-TCA	1,1-DCA	Acetone	Toluene	m,p-Xylene	Chloroform	o-Xylene	Pentane	Hexane	2-Butanone (Methyl Ethyl Ketone)	Benzene	Ethyl Benzene	Propylbenze ne	Cumene	1,3,5- Trimethylben zene	1,2,4- Trimethylben zene	TPH ref. to Gasoline (MW=100)	Total Chlorinated	Total 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 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	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	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	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	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	100	10	7.0	110	110	1.7	110	110	140		.,,,	110	110		5	110		5		5			200	
Start	99	7.6	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	110	110
5/22/2018	430	43	13	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	498	498
6/7/2018	160	13	5.4	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	180	180
6/20/2018	170	14	5.7	ND	ND	1.8	ND	ND	ND	ND	ND	ND ND	ND	ND	ND ND	ND	ND.	ND ND	ND	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 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.	ND	84	84
-,,						<b></b>					<b></b>						<b>—</b>							
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	150		5.7	110	110		110	110	110	5	.,,	110	110		5	110		5	110	5			277	
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																								
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			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-																								
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		ı
			cis-1,2-	trans-1,2-	Vinyl										(Methyl Ethyl		Ethyl	Propylbenze		Trimethylben	Trimethylben	Gasoline	Total	Total
Date	PCE	TCE	DCE	DCE	Chloride	1,1,1-TCA	1,1-DCA	Acetone	Toluene	m,p-Xylene	Chloroform	o-Xylene	Pentane	Hexane	Ketone)	Benzene	Benzene	ne	Cumene	zene	zene	(MW=100)	Chlorinated	VOCs
6/20/2019	10	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	11
	•			•	•		•		•	•	•						•							
SVE-2																								
															2-Butanone					1,3,5-	1,2,4-	TPH ref. to		ı
			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
8/30/2018	180	14	6.1	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	200	200
2/13/2019	48	3.3	2.8	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	54	54
6/20/2019	100	9.6	5.1	ND	ND	1.4	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	116	118
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
E /21 /20 Pohound 49	1 -	1	1			1					1						1							

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

### SVE-3

345-3																								
															2-Butanone					1,3,5-	1,2,4-	TPH ref. to		
			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
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		
				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.

Shaded cells are results from January 2021

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

	Days in Operation							
Date	Since Startup 1	SVE-01	SVE-02	SVE-03	VPC Inlet	VPC Mid	VPC Outlet	Notes
10/16/2020	1,779		0	392	58			
	·							
10/27/2020	1,790	Vent	98	308	177		0	Changed blower oil, replaced oil drain plug
11/16/2020	1,810	Vent	4	384	191			
11/19/2020	1,813	Vent						
11/24/2020	1,818	Vent	73	273	206		0	
12/2/2020	1,826	Vent	83	240	185		0	Replaced air filter
12/9/2020	1,833	Vent	31	213	204			
12/14/2020 12/21/2020	1,838 1,845	Vent 58	29 93	184 Off	199 77			Took readings then noticed SVE-1 pipe appears to have been backed into by vehicle, plan to close SVE-3 and open SVE-1 to alternate flows as SVE-1 has been off for some time. Repair SVE-1, close SVE-3 and open SVE-1 after repair. Influent up at 1,809 ppb but likely due to PVC primer/glue from repair. Will check next week. Turned system off for Boeing Xmas break Restart system, take initial readings then at 0910 close SVE-1 and open SVE-3. Take PID readings at ~ 30 min after change and 2 hours
1/5/2021	1,860		102		108			after change collect TO-15 samples from influent.
1/5/2021	1,860	Off		303	267			0920 readings
1/5/2021	1,860	Off			309			0935 readings - Sample Influent 5-09-Influent-A
1/5/2021	1,860	Off	120	332	335			1050 readings - Sample Influent 5-09-Influent-B
1/7/2021	1,862		25	242	133			Collect TO-15 sample at influent - 5-09-Influent-C
1/13/2021	1,868		39	207	186			
1/26/2021	1,881	Vent	68	166	177			
								Turned system off due to heavy snow in
2/10/2021	1,896	Vent	18	210	261			forecast
2/18/2021	1,904	\	200	- 2-2	2.451			Turned system on
2/25/2021	1,911		303	5,258	3,461		_	
3/3/2021	1,917		79	307	299		0	
3/9/2021	1,923		46	411	368			
3/18/2021	1,932		25	152	150		0	
3/26/2021	1,940	Vent	71	197	185			

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

	Days in Operation Since Startup 1	0.45.04	0.45.00	0.45.00	VDC Labet		V200	
Date	Since Startup	SVE-01	SVE-02	SVE-03	VPC Inlet	VPC Mid	VPC Outlet	Notes
								Hr meter stopped working between last visit.
4/1/2021	1,946	Vent	62	195	191		0	Will order replacement. Changed oil.
4/8/2021	1,953	Vent	103	241	177		0	
4/15/2021	1,960	Vent	0	206	196		0	
5/4/2021	1,979	Vent	23	142	136		0	Installed new hour meter.

### Notes:

Operational change was made on 12/14/20 due to reduced concentrations observed at SVE-03 and the influent, SVE-03 was opened as a vent well to promote focused flow towards SVE-01 and SVE-02. No significant increase in PID was observed therefore the system was adjusted on 1/5/21 to operate SVE-01 as a vent well and extract from SVE-02 and SVE-03.

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

<sup>&</sup>lt;sup>1</sup> Days in operation since system startup on April 17, 2015.

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

					VOCs removed in Operating Period	Cumulative VOC Mass Removed
		Corrected Value	System Flow	Cumulative	Between Monitoring	Since Start of SVE Operations in
Date	PID Reading (ppbv)	(PCE) (ppbv) <sup>1</sup>	(cfm)	Runtime Hours	Events (lbs) <sup>2</sup>	April, 2015 (lbs)
10/16/2020	58	33	100	34,541	0.045	21.00
10/27/2020	177	103	100	34,800	0.065	21.07
11/16/2020	191	111	95	35,282	0.123	21.19
11/19/2020 <sup>3</sup>	191	111	95	35,355	0.018	21.21
11/24/2020	206	120	95	35,469	0.032	21.24
12/2/2020	185	107	95	35,661	0.048	21.29
12/9/2020	204	119	98	35,832	0.048	21.34
12/14/2020	199	116	98	35,948	0.032	21.37
12/21/2020	77	44	85	36,116	0.015	21.38
1/5/2021	108	63	77	36,117	0.000	21.38
1/5/2021	267	155	100	36,117	0.000	21.38
1/5/2021	309	179	100	36,117	0.000	21.38
1/5/2021	335	195	100	36,117	0.000	21.38
1/7/2021	133	77	105	36,171	0.011	21.39
1/13/2021	186	108	105	36,308	0.038	21.43
1/26/2021	177	103	105	36,625	0.083	21.51
2/10/2021	261	152	105	36,984	0.139	21.65
2/18/2021 <sup>3</sup>	261	152	105	36,984	0.000	21.65
2/25/20214	261	152	100	37,148	0.060	21.71
3/3/2021	299	173	105	37,291	0.063	21.78
3/9/2021	368	213	105	37,436	0.079	21.86
3/18/2021	150	87	105	37,650	0.048	21.90
3/26/2021	185	107	105	37,845	0.053	21.96
4/1/2021	191	111	105	37,989	0.041	22.00
4/8/2021	177	103	105	38,157	0.044	22.04
4/15/2021	196	114	105	38,325	0.049	22.09
5/4/2021	136	79	105	38,781	0.092	22.18

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

					VOCs removed in	
					<b>Operating Period</b>	Cumulative VOC Mass Removed
		<b>Corrected Value</b>	System Flow	Cumulative	Between Monitoring	Since Start of SVE Operations in
Date	PID Reading (ppbv)	(PCE) (ppbv) <sup>1</sup>	(cfm)	<b>Runtime Hours</b>	Events (lbs) <sup>2</sup>	April, 2015 (lbs)

### 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 6/20/19.

<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>2</sup> These are based soley on the PID measurements collected this guarter; the prior TO-15 analyses indicates much lower mass.

<sup>&</sup>lt;sup>3</sup> Previous weeks influent PID reading used to calculate mass removal if that reading was not collected during the site visit.

<sup>&</sup>lt;sup>4</sup> 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 - January 2021 Injection Summary at Renton AOCs

Area	Injection Well	Volume of Solution - ERD (gallons)	Brix (°Bx)	Pounds Substrate in the Solution (lbs)
Building 4-78/79	B78-12	564	7.5	353
	B78-14	565	8.4	396
	B78-15	561	8.7	407
	B78-16	566	8.9	420
	Total (gal)	2 256	Total (lhs)	1 576

### Total (gal) 2,256

### Notes:

<sup>°</sup>Bx (degrees brix) is a measure of the sugar content in an aqueous solution. One degree Brix is 1 gram of sucrose in 100 grams of solution and represents the strength of the solution as percantage by mass

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

Area	Injection Well	Volume Total (gal)	NaNO3 (lbs)	MgSO4 (lbs)	DAP (lbs)	Concentration NO3 Injected (mg/L)	Concentration SO4 Injected (mg/L)
Building 4-78/79	B78-11	500	9.1	4.2	5.4	1,599	803
	B78-13	513	9.1	4.2	5.4	1,559	783
	B78-17	509	9.1	4.2	5.4	1,571	789
	B78-18	500	9.1	4.2	5.4	1,599	803
	B78-19	500	9.1	4.2	5.4	1,599	803
	B78-20	500	9.1	4.2	5.4	1,599	803
	B78-21	529	9.1	4.2	5.4	1,512	759

### Notes:

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

Table 3-3 - Baseline and Performance Monitoring Groundwater Data; 4-78/79 Benzene Treatment Area

		Sample Depth			cis-1,2-				Benzene		Nitrate		Nitrite		Sulfate	
Sample ID	Date	(ft bgs)	TCE (ug/L)		DCE (ug/L)		VC (ug/L)		(ug/L)		(mg-N/L)		(mg-N/L)		(mg/L)	<u> </u>
B78-11-8-113017	11/30/2017	8	0.42		0.98		1.11		9.66		<0.100	U	<0.100	U	1.94	-
B78-11-021418	2/14/2018	8	1.16		0.84		1.09		14.8		<0.100	U	<0.100	U	9.22	D
B78-11-051518	5/15/2018	8	1.86		0.78		1.06		12.6		<0.100	U	<0.100	U	34.1	D
B78-11-180917	9/17/2018	8	5.01		7.90		3.62		9.20		<0.100	U	<0.100	U	23.4	D
B78-11-020719	2/7/2019	8	3.13		2.47		1.81		4.88		<0.100	U	<0.100	U	25.0	D
B78-11-050719	5/7/2019	8	8.60		6.55		3.56		2.15		<0.100	U	<0.100	U	47.0	D
B78-11-030719	11/20/2019	8	4.56		4.75		3.06		0.97		<0.100	U	<0.100	U	5.65	D
B78-11-021120	2/11/2020	8	7.21		6.00		3.10		1.20		<0.100	U	<0.100	U	118	D
B78-11-021120	9/23/2020	8	<0.2	U	3.14		3.52		2.64		0.205	U	<0.100	U	2.38	1
B78-11-040121	4/1/2021	8	1.48	Ü	1.72		1.43		6.16		4.20		0.74	U	40.6	D
D70-11-040121	4/1/2021		1.40		1.72	<u> </u>	1.43		0.10		4.20		0.74	U	40.0	
B78-13-15-112917	11/29/2017	15	0.24		1.29		2.02		9.92		0.135		<0.100	U	0.652	
B78-13-021418	2/14/2018	15	<0.2	U			8.49		4.11		<0.100	U	<0.100	U	1.31	
B78-13-051518	5/15/2018	15	<0.2	U			0.87		4.94		0.182		<0.100	U	4.32	D
B78-13-180917	9/17/2018	15	<0.2	U	0.61		0.38		3.29		<0.100	U	<0.100	U	0.812	
B78-13-020719	2/7/2019	15	<0.2	U			0.29		0.74		<0.100	Ū	<0.100	U	0.189	
B78-13-050719	5/7/2019	15	<0.2	U	0.57		0.45		1.16		<0.100	U	<0.100	U	<0.100	U
B78-13-112019	11/20/2019	15	<0.2	U	0.40		0.30	М	1.81		<0.100	U	<0.100	U	0.354	Ť
B78-13-021120	2/11/2020	15	<0.2	U			0.43		1.42		<0.100	U	<0.100	U	2.87	D
B78-13-092320	9/23/2020	15	<0.2	U	0.44		0.41		1.00		0.396	Ŭ	<0.100	U	13.9	D
B78-13-040121	4/1/2021	15	<0.2	U	0.28		0.29		0.78		<0.100	U	<0.100	U	1.60	+-
270 10 0 10111	., _, _,			_	0.20	l	0.25		<u> </u>	l	10.200	_	10.200	1 - 1		
B78-17-9-100617	10/6/2017	9	<0.2	U	0.17	J	0.33		4.84		-		-		-	
B78-17-15-112917	11/29/2017	15	1.25		0.81		1.31		6.52		<0.100	U	<0.100	U	17.1	D
B78-17-021418	2/14/2018	15	2.57		1.78		1.47		4.61		<0.100	U	<0.100	U	7.35	D
B78-17-051518	5/15/2018	15	0.91		1.63		0.53		2.60		<0.100	U	<0.100	U	8.66	D
B78-17-180917	9/17/2018	15	<0.2	U	0.39		<0.2	U	1.37		<0.100	U	<0.100	U	9.63	D
B78-17-020719	2/7/2019	15	<0.2	U	0.68		0.47		0.56		0.101		<0.100	U	2.32	
B78-17-050719	5/7/2019	15	5.00		5.72		1.79		1.07		0.101		<0.100	U	4.92	D
B78-17-112019	11/20/2019	15	<0.2	U	0.69		0.26	М	0.28		<0.100	U	<0.100	U	1.32	
B78-17-021120	2/11/2020	15	7.03		4.33		3.34		0.61		<0.100	U	<0.100	U	17.5	D
B78-17-092320	9/23/2020	15	0.65		0.86		0.37		0.40		1.63		<0.100	U	44.9	D
B78-17-040121	4/1/2021	15	14.8		6.59		1.18		0.74		<0.100	U	<0.100	U	13.2	D
				•												
B78-18-8-100617	10/6/2017	8	<0.2	U	0.07	J	0.29		0.72		-		-		-	
B78-18-15-112917	11/29/2017	15	<0.2	U	<0.2	U	0.35	М	3.10		<0.100	U	<0.100	U	0.343	
DUP-01-112917	11/29/2017	15	<0.2	U	<0.2	U	0.36		2.96		<0.100	U	<0.100	U	1.68	
B78-18-021418	2/14/2018	15	<0.2	U	<0.2	U	0.24		1.28		<0.100	U	<0.100	U	1.47	
B78-18-051518	5/15/2018	15	<0.2	U	<0.2	U	0.23		1.68		<0.100	U	<0.100	U	27.6	D
B78-18-180917	9/17/2018	15	<0.2	U	<0.2	U	<0.2	U	0.89		<0.100	U	<0.100	U	7.28	D
B78-18-020719	2/7/2019	15	<0.2	U		U	0.22		1.32		<0.100	U	<0.100	U	2.41	D
B78-18-050719	5/7/2019	15	<0.2	U			0.24		1.66		<0.100	U	<0.100	U	2.44	D
B78-18-112019	11/20/2019	15	<0.2	U		U	0.21	M	1.18		<0.100	U	<0.100	U	2.64	D
B78-18-021120	2/11/2020	15	0.38		0.43		0.56		1.20		<0.100	U	<0.100	U	23.7	D
B78-18-092320	9/23/2020	15	<0.2	U			<0.2	U			<0.100	U	<0.100	U	70.2	D
B78-18-040121	4/1/2021	15	<0.2	U	0.23	<u> </u>	0.20		1.28		<0.100	U	<0.100	U	11.7	D
B78-19-9-100617	10/6/2017	9	<0.2	U	0.06	J	0.22		0.69		_		l <u>.</u>			1
B78-19-3-100017	11/29/2017	15	<0.2	U		Ŋ	0.22	М		$\vdash$	<0.100	U	<0.100	U	0.255	+
B78-19-021418	2/14/2018	15	<0.2	U		U	0.27	171	0.30		<0.100	U	<0.100	U	1.22	╁
B78-19-051518	5/15/2018	15	<0.2	U		U	0.21		0.23	$\vdash$	<0.100	U	<0.100	U	22.4	D
B78-19-031318	9/17/2018	15	<0.2	U		U	<0.2	U	<0.2	U	<0.100	U	<0.100	U	1.91	1
	2/7/2019	15	<0.2	U		U	<0.2	U	<0.2	U		U	<0.100	U	2.16	+
B78-19-020719			<0.2	U		U	<0.2	U		U	<0.100	H		U		D
B78-19-050719	5/7/2019	15	<0.2	U		U	0.2	М	0.50		<0.100	U	<0.100	U	14.2 0.454	۳
B78-19-112019 B78-19-021120	11/20/2019 2/11/2020	15 15	<0.2	U		U	<0.2	U	0.21		0.395	U	<0.100	U	28.3	D
	L 2/11/2U2U	1 13	<b>∖∪.∠</b>	U	· <0.2	U	<b>\U.</b> Z	· U	ı U.ZD		U.333	1	< 0.100	U	20.3	$L^{D}$
B78-19-092320	9/23/2020	15	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.100	U	0.11		1.97	

 ${\sf Table~3-3-Baseline~and~Performance~Monitoring~Groundwater~Data;~4-78/79~Benzene~Treatment~Area}$ 

																П
		Sample Depth			cis-1,2-				Benzene		Nitrate		Nitrite		Sulfate	
Sample ID	Date	(ft bgs)	TCE (ug/L)		DCE (ug/L)		VC (ug/L)		(ug/L)		(mg-N/L)		(mg-N/L)		(mg/L)	
B78-20-8-100617	10/6/2017	8	<0.2	U	<0.2	U	0.14	J	8.81		-		-	H	-	t
B78-20-15-113017	11/30/2017	15	0.41	Ť	<0.2	U	<0.2	U	25.9		2.93	D	<0.100	U	53.9	D
B78-20-021418	2/14/2018	15	0.25		0.49	М	<0.2	U	40.0		<0.100	U	<0.100	U	21.1	D
B78-20-051518	5/15/2018	15	<0.2	U	0.39		0.22		54.2		<0.100	U	<0.100	Ū	15.5	D
B78-20-180917	9/17/2018	15	0.24	Ť	0.27		0.29		0.98		<0.100	U	<0.100	U	2.39	Ť
B78-20-020719	2/7/2019	15	<0.2	U	0.41	М	0.25		16.5		<0.100	U	<0.100	U	1.89	t
B78-20-050719	5/7/2019	15	<0.2	U	0.32		0.28		16.3		<0.100	U	<0.100	U	4.93	D
B78-20-112019	11/20/2019	15	<0.2	U	0.25		0.31	М	5.04		0.129	Ť	<0.100	U	2.47	Ť
B78-20-021120	2/11/2020	15	<0.2	U	0.29		<0.2	U	6.62		<0.100	U	<0.100	U	11.1	D
B78-20-092320	9/23/2020	15	<0.2	U	0.23		<0.2	U	9.07	H	<0.100	U	<0.100	U	40.3	D
B78-20-040121	4/1/2021	15	<0.2	U	<0.2	U	<0.2	U	28.2		<0.100	U	<0.100	U	3.99	۲
570 20 040121	4, 1, 2021		10.12	_	10.2		10.2	_	LOIL		101200		101200		- 3.33	
B78-21-8-100617	10/6/2017	8	<0.2	U	0.13	J	0.21		1.42				_	П		Т
Dup01-100617	10/6/2017	15	<0.2	U	0.15	J	0.21	J	2.01							╁
B78-21-15-112917	11/29/2017	15	<0.2	U	0.13	М	0.26	,	2.27		0.101		<0.100	U	4.43	D
B78-21-021418	2/14/2018	15	<0.2	U	0.31	IVI	0.30		0.86		<0.100	U	<0.100	U	1.60	۲
B78-21-021418	5/15/2018	15	<0.2	U	0.24		0.30		1.08		<0.100	U	<0.100	U	4.59	D
B78-21-031318 B78-21-180917	9/17/2018	15	0.22	٦	0.27		<0.2	U	0.59	H	<0.100	U	<0.100	U	3.62	D
B78-21-180917 B78-21-020719	2/7/2019	15	<0.2	U	0.29	$\vdash$	0.32	U	0.59	$\vdash$	0.170	J	0.161	J	3.78	D
B78-21-020719 B78-21-050719	5/7/2019	15	<0.2	U	0.28	$\vdash$	<0.2	U		$\vdash$	<0.100	U	<0.100	U	5.73	D
B78-21-050719 B78-21-112019	11/20/2019	15	<0.2	U	0.42		<0.2	U	0.80 <0.2	U	<0.100	U	<0.100	U	5.73	D
B78-21-112019 B78-21-021120	_ · ·	15	<0.2	U	0.30		0.31	U	<0.2	U	<0.100	U	<0.100	U	20.4	D
	2/11/2020			U						U		_		U		+-
B78-21-092320	9/23/2020	15 <b>15</b>	<0.2	U	0.32		0.25		0.39		<0.100	U <b>U</b>	<0.100	U	26.3	D
B78-21-040121	4/1/2021	15	<0.2	U	0.26		0.29		0.39		<0.100	U	<0.100	U	1.86	
CW 244C 42 442047	44 /20 /2047	42	2.40		0.00		F C0		7.07		10.100		10.100		0.752	т
GW-244S-13-112917	11/29/2017	13	3.48		8.06		5.68		7.97		<0.100	U	<0.100	U	0.753	+-
GW-244S-021418	2/14/2018	13	1.01		1.25		1.22		5.34		<0.100	U	<0.100	U	1.25	+
GW-244S	3/6/2018	13	1.26		2.00		1.56		6.86		- 100		- 100		- 100	٠.,
GW-244S-051518	5/15/2018	13	<0.2	U	0.30		0.41		3.89		<0.100	U	<0.100	U	<0.100	U
GW-244S-180917	9/17/2018	13	<0.2	U	0.25		0.38		3.74		<0.100	U	<0.100	U	0.113	+-
GW-244S	11/13/2018	13	<0.2	U	0.26		0.55		2.95				-	<u> </u>	-	+
GW-244S-020719	2/7/2019	13	<0.2	U	0.26		0.47		1.14		0.101		<0.100	U	0.337	+-
GW-244S	3/4/2019	13	0.22		0.82		0.86		1.73		0.400	١	0.400	<del>   </del>	-	+-
GW-244S-050719	5/7/2019	13	<0.2	U	1.22		1.18		1.13		<0.100	U	<0.100	U	1.45	+-
GW-244S	5/7/2019	13	<0.2	U	2.03		1.45		1.47		-		-	Н	-	_
GW-244S	8/13/2019	13	<0.2	U	0.37		0.71		1.77		-		-	Щ		_
GW-244S	11/11/2019	13	<0.2	U	<0.2	U	0.35		0.87		-		-	<u> </u>		₩
GW-244S-112019	11/20/2019	13	<0.2	U	<0.2	U	0.50	M	0.41		<0.100	U	<0.100	U	0.160	+-
GW-244S-021120	2/11/2020	13	0.22		0.56		0.67		0.25		0.145		<0.100	U	2.69	D
GW-244S	3/10/2020	13	0.23		0.68		0.70		0.52		-		-	Ш		ـــــ
GW-244S-092320	9/23/2020	13	<0.2	U	0.26		0.39		0.20		<0.100	U	<0.100	U	3.96	4
GW-244S	1/15/2021	13	0.29		0.68		0.64		0.46		-		-	Ш		_
GW-244S-040121	4/1/2021	13	<0.2	U	0.41		0.55		<0.2	U	<0.100	U	<0.100	U	0.581	
		T	1		1				1				1			_
GW-031S-23-113017	11/30/2017	23	<0.2	U	<0.2	U	<0.2	U	17.6		<0.100	U	<0.100	U	2.54	D
GW-031S-021418	2/14/2018	23	<0.2	U	0.45	М	0.49		21.9		<0.100	U	<0.100	U	3.67	D
DUP-01-021418	2/14/2018	23	<0.2	U	0.46	Ш	0.42		21.4	Ш	-		-	Ш	-	<u> </u>
GW-031S	3/6/2018	23	<0.2	U	1.18	Ш	<0.2	U	60.3	Ш	-		-	Ш	-	₽
GW-031S-051518	5/15/2018	23	0.36		0.40		0.21		2.68	Ш	<0.100	U	<0.100	U	2.95	D
Dup-01-051518	5/15/2018	23	0.32		0.34		0.20		2.64		<0.100	U	<0.100	U	2.87	D
GW-031S-180917	9/17/2018	23	<0.2	U	<0.2	U	0.28		<0.2	U	<0.100	U	<0.100	U	0.499	lacksquare
Dup-01-180917	9/17/2018	23	<0.2	U	0.21		0.30		<0.2	U	<0.100	U	<0.100	U	0.441	L
GW-031S	11/13/2018	23	<0.2	U	0.63		0.31		28.3	Ш	-		-	Ш	-	L
Dup-01	11/13/2018	23	<0.2	U	0.58		0.30		23.8		-		-	Ш		L
GW-031S-020719	2/7/2019	23	<0.2	U	0.51	М	<0.2	U	21.6		<0.100	U	<0.100	U	0.170	1
Dup-01-020719	2/7/2019	23	<0.2	U	0.57	М	0.24		22.7		<0.100	U	<0.100	U	0.202	<u> </u>
GW-031S	3/4/2019	23	<0.2	U	<0.2	U	<0.2	U	55.9		-		-	Ш	-	L
Dup-01	3/4/2019	23	<0.2	U	<0.2	U	<0.2	U	58.6				-	Ш	-	Ĺ
GW-031S-050719	F /7 /2040	22	<0.2	U	0.22		0.30		1.90		<0.100	U	<0.100	U	1.86	
	5/7/2019	23	10.2	_												
Dup-01-050719	5/7/2019	23	<0.2	U	0.27		<0.2	U	2.16	L	<0.100	U	<0.100	U	0.689	L
				U U			<0.2 0.29	U	2.16 7.13		<0.100	U	<0.100	U	0.689	ŀ
Dup-01-050719	5/7/2019	23	<0.2	_	0.27			U			<0.100	U	<0.100 - -	U	0.689 - -	_

Table 3-3 - Baseline and Performance Monitoring Groundwater Data; 4-78/79 Benzene Treatment Area

		Sample Depth			cis-1,2-				Benzene		Nitrate		Nitrite		Sulfate	
Sample ID	Date	(ft bgs)	TCE (ug/L)		DCE (ug/L)		VC (ug/L)		(ug/L)		(mg-N/L)		(mg-N/L)		(mg/L)	
Dup-01	8/13/2019	23	<0.2	U	0.48		0.22		4.37		-		-			
GW-031S	11/11/2019	23	<0.2	U	0.40		0.25		4.77		-		-		-	
Dup-01	11/11/2019	23	<0.2	U	0.39		0.27		4.75		-		-		-	
GW-031S-112019	11/20/2019	23	<0.2	U	<0.2	U	<0.2	U	1.90		<0.100	U	<0.100	U	1.26	
Dup-01-112019	11/20/2019	23	<0.2	U	<0.2	U	0.27	М	2.31		<0.100	U	<0.100	U	1.16	
GW-031S-021120	2/11/2020	23	<0.2	U	<0.2	U	0.25		3.47		<0.100	U	<0.100	U	3.29	D
Dup-01-021120	2/11/2020	23	<0.2	U	<0.2	U	0.27		3.69		<0.100	U	<0.100	U	3.11	D
GW-031S	3/10/2020	23	<0.2	U	0.61		<0.2	U	37.1		-		-		-	
Dup-01	3/10/2020	23	<0.2	U	0.56		<0.2	U	38.5		-		-		-	
GW-031S-092320	9/23/2020	23	<0.2	U	0.21		0.26		0.45		<0.100	U	<0.100	U	2.39	
Dup-01-092320	9/23/2020	23	<0.2	U	0.22		<0.2	U	0.45		<0.100	U	<0.100	U	2.52	
GW-031S	1/15/2021	23	<0.2	U	0.31		<0.2	U	18.8	J	-		-		-	
Dup-01	1/15/2021	23	<0.2	U	0.30		<0.2	U	18.8	J	-		-		-	
GW-031S-040121	4/1/2021	23	<0.2	υ	<0.2	U	<0.2	υ	2.47		<0.100	U	<0.100	U	0.34	
Dup-01-040121	4/1/2021	23	<0.2	υ	<0.2	υ	<0.2	U	2.44		<0.100	U	<0.100	U	0.27	

### Notes:

U = non-detect

D = dilution

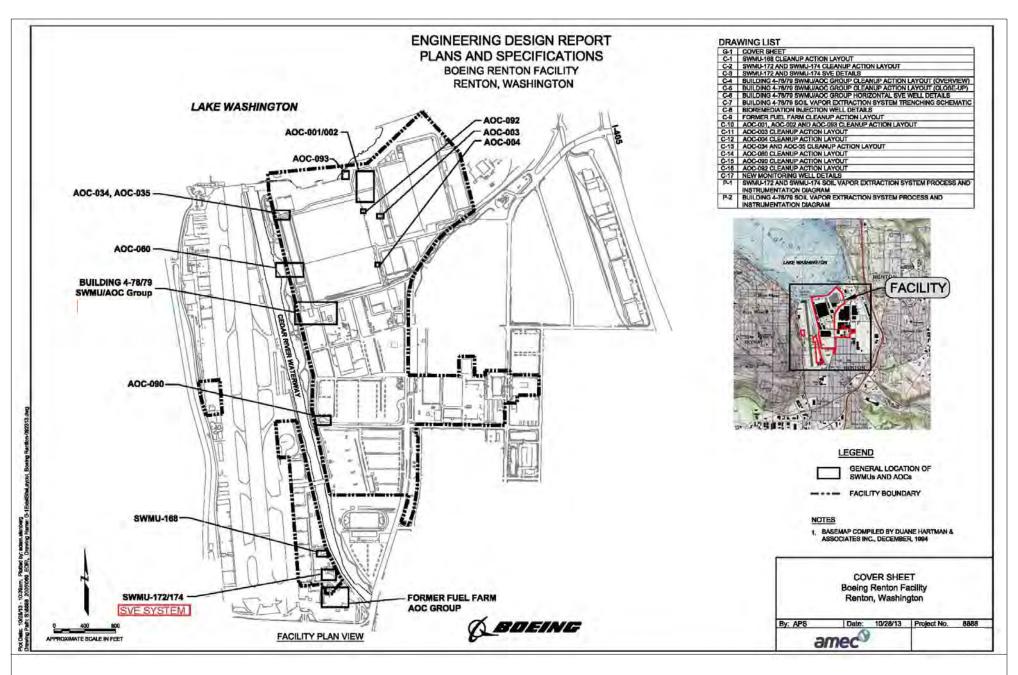
 $M = Estimated \ value \ for \ a \ GC/MS \ analyte \ detected \ and \ confirmed \ by \ an \ analyst \ but \ with \ low \ spectral \ match \ parameters.$ 

Samples in italics collected as part of the Renton quarterly groundwater monitoring program.

Table 3-4 Groundwater Monitoring Results Summary February 2021 and Recommended ERD Treatment

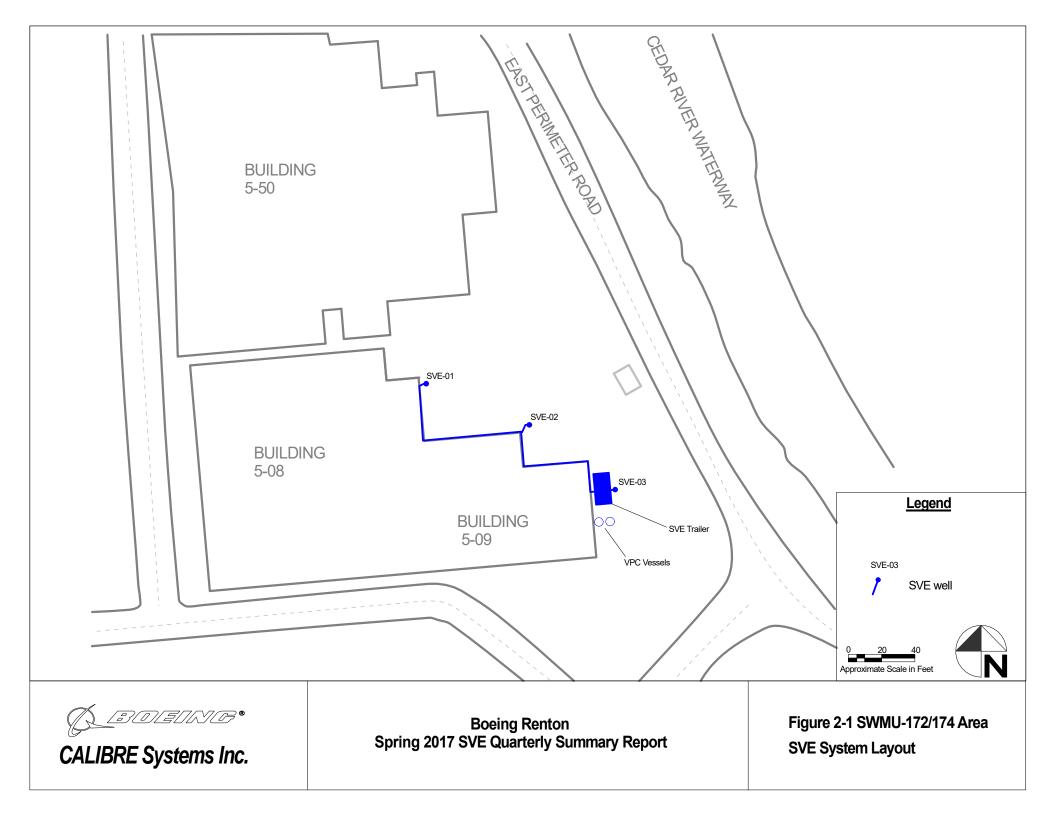
<b>GW Treatment Area</b>	Source and down gradient MWs	CPOC wells	Treatment IWs	ERD Treatment Recommendation
SWMU-172/174	PCE at or less than 0.1 ug/L; TCE is nondetect (<0.02) ug/L; cisDCE less than 0.22 ug/L and VC less than 0.27 ug/L.	All detections are at or below 0.27 ug/L	Prior data Mar 2018, North and South IWS showed total CVOCs range from 0.03 ug/L to 6.90 ug/L. TOC near background.	Consider additional injections if beneficial after review of future sample results.
Building 4-78/4-79 SWMU/AOC Group	TCE is nondetect in 4 of 5 samples, one at 0.29 ug/L, cisDCE is under 1.7 ug/L in all samples; VC is higher in GW033S (at 5.3 ug/l). Benzene remains about the same in source well GW031S (18.8). Nitrate/sulfate injections completed in January 2021, April 2021 samples show benzene under 2.5 ug/L in GW031S. TPH-G remain above criteria.	Majority of samples are ND; Northern well GW237S showed benzene at 6.8 ug/L in Febr 2021	Prior data May 2017, 4 of 5 wells with low detections where sum of CVOCs are less than 3 ug/L	Additional injections likely/beneficial, pending review of next sampling results.
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.	Detections are very low throughout the site. Will consider additional injections if beneficial. Site still not accessible due to construction
AOC-003	VC less than 0.4 ug/L.	VC less than 0.50 ug/L.	Prior data May 2017 one of four IWs sampled – VC detection less than 0.30 ug/L	Consider additional injections if beneficial after review of future sample results.
Lot 20 / former 10-71	Prior data May 2020 - All wells are ND.	-	-	No action at this time.
AOC-60	Treatment MWs with total CVOCs less than 0.5 ug/L, other MWs with total CVOCs less than 1.50 ug/L (primarily as cis12 DCE).	MW's with total CVOCs less than 0.41 ug/L, primarily as cis-1,2DCE.	-	Consider additional injections if beneficial after review of future sample results.
AOC – 90	Source with total CVOCs less than 0.2 ug/L; down gradient well with VC at 0.14 ug/L.	VC detections less than 0.35 ug/L.	-	Consider additional injections if beneficial after review of future sample results.
Apron A	cis-1,2DCE is nondetect and VC is at 1.49 ug/L	-	-	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 Oct-15 Apr-16 Oct-16 Apr-17 Oct-17 Apr-18 Oct-18 Apr-19 Oct-19 Apr-20 Oct-20 Apr-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

### Attachment A: Field Log Forms

		Operational F	arame	ters - Ivioni		is variable.		
nspection Time:	1340	IVIOLOI	Hours.	407				
Blower	Current					er Notes		
Vacuum gauge	47"1	t-20 Drain	ned	m I gal	condensate			
Pressure gauge	5 " H	10						
System flow rate	100 SCF							
Blower Temperature	13708							
Temp.at lag VPC discharge			- Julius Carr					
Other notes: che	ck oil level,	drive belts, TEFC	motor	fan, any un	usual noise/vil	oration		
PID Model:	PB RAE	3000		Details:	A SECOND PROPERTY OF THE PARTY	10.04 PP	n	
Calibration time/	date:	4/20 13 40		PID check	after monitori	ing:		
Sampling Point	Time	PID Reading (1)	PID	Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated
SVE-01	Vent							
SVE-02		OPPH	0 Pt					
SVE-03		318 PP6	469	SPPP				
VPC Inlet		63 ppb	57	PPb				
VPC Midpoint								
VPC Outlet								
Other vapor point								
Flow rate ca	culated from th	e equation Flow Rate	(cfm) =	$12.24 \times \sqrt{dif}$	ferential pressur	e.		
		@ (360) 981-5606						

nspection Date: _	10/11/10	Date of last inspection:
Periodic systems cl		
		noisture separator, water storage drums I VPC outlet with PID.
-y oneon eden eve		ational Parameters - Monitoring interval is variable.
Inspection Time:	0850	Motor Hours: 4332.8
Blower	Current Value	Other Notes
Vacuum gauge	55"HW	changed blowr sile of play screw and twenty
Pressure gauge	2" H20	Storp: Found replacement @ motion + Flow in kint
System flow rate	100 SCFM	Drained i 3 gal condensate
Blower Temperature	12907	
Temp.at lag VPC discharge		

PID Model:	PB RAE	3000	Details:	OPPY	110.01 8	'pm					
Calibration time		7/20 0850	PID check	PID check after monitoring:							
Sampling Point	Sampling Time PID Reading			Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>				
SVE-01	Vent										
SVE-02		.99 pps	96 PPS								
SVE-03		333 APP	282ppb								
VPC Inlet		189 PFS	165ppb								
VPC Midpoint											
VPC Outlet		O PPS	Opple								
Other vapor point											

<sup>1.</sup> 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	ste@calibresys.com
Signature	Justin Nest C	Signature	10/27/20 Date

		Operational I	Parame	eters - Mon	Action to the second se	is variable.		
Inspection Time:	1330	IVIOTOF	Hours.	4814.	1			
Blower	Current	Value				er Notes		
Vacuum gauge	55"	H10	) rain	ed 2	-gal cond	ensurt		
Pressure	3" H20		I.			aclin sarte	on 11/12	
gauge System flow rate	9550	FM.	Coliner		5 9 11 60			
Blower Temperature	130°F							
Temp.at lag VPC discharge				• = 6		hundi on		
Other notes: che	ck oil level,	drive belts, TEFC	motor	ran, any un	usuai noise/vi	oration		
PID Model:	PB RHE			Details:		10.00 ppm		
Calibration time/	date:	120 1330		PID check	after monitor	ing:		
Sampling Point	Time	PID Reading (1)	PID	Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate
SVE-01		Vent						
SVE-02		8 pgs	0	PPS				
SVE-03		432 pps	33	5 pps				
VPC Inlet		202 pps	179	طوم ا				
VPC Midpoint								
VPC Outlet								
Other vapor point								
4	culated from th	ne equation Flow Rate	(cfm) =	$12.24 \times \sqrt{diff}$	<sup>f</sup> erential pressur	e.		

Check each SVE		Operati	onal P	arame	ters - Mon	itoring interval	is variable.			
nspection Time:	1348		Motor F	Hours:	4887.	1				
Blower	Current \	/alue					er Notes	1.		
Vacuum gauge	65"14	w .	D	count	1.5	gal lande	n Sate			
Pressure	2"1-12	D)								
System flow ate	9556	m	12		1-1					
Blower Temperature	13004									
Temp.at lag										
VPC discharge Other notes: che	ر امیروا اند را	drive holte	TEEC	motor	fan anv un	usual noise/vil	bration			
Other notes, one	CK On level, v	arive beite,		******						
					D					
PID Model:					Details:					
Calibration time/	date:				PID check	k after monitor	ing:			
Sampling Point	Time	PID Read	ding	PID	Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated	
SVE-01							,			
SVE-02										
SVE-03							×			
VPC Inlet	4	*								
VPC Midpoint	4									
VPC Outlet										
Other vapor point										
1. Flow rate ca Questions? Call J At the Completion	uctin Neste (	ล (360) 98	1-5606			ferential pressur		n.Neste@calibr	esys.com	

		noisture separator, water storage drums	
2) Check each SVE		d VPC outlet with PID.	
	Ope	rational Parameters - Monitoring interval is variable.	
Inspection Time:	0815	Motor Hours: 5001.6	
Blower	Current Value	Other Notes	
Vacuum gauge	58"1420	~ I gal condensare decimed	
Pressure gauge	2"H20		
System flow rate	955cFon		
Blower Temperature	1300		
Temp.at lag VPC discharge			
	ck oil level, drive bel	s, TEFC motor fan, any unusual noise/vibration	

PID Model:	PB RAF		Details:	OPPH	19,99	9 006					
Calibration time/	date: il/2	4/20 0815	PID chec	PID check after monitoring:							
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>				
SVE-01		vent									
SVE-02		77 PP5	68 pps								
SVE-03		242 ppb	303 pp5								
VPC Inlet		207 pps	205 pps								
VPC Midpoint											
VPC Outlet		0 225	2 225								
Other vapor point				,							

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

Questions? Call Justin Nest At the Completion of a moni	e @ (360) 981-5606 toring event scan monitoring forms ar	nd email to Justin Neste: Justin.Ne	ste@calibresys.com
Signature	7 Nesta Printed Name	Signature	11/24 Date

Inspection Date:	17/2	1-			. 1	/					
Periodic systems		1-40	Date o	f last inspec	tion:	4/20					
The state of the s		ressure, moisture	senara	ator waters	torage drume						
2) Check each S\	/E well, VPC	inlet, and VPC or	utlet wi	ith PID.	lorage urums						
		Operational	Param	eters - Mor	itoring interva	al is variable.					
Inspection Time	0830	Motor	r Hours	519	73.7						
Blower	Curren	t Value			Ot	her Notes	*				
Vacuum gauge	6000	Tro I	) aun	ev - 2	gal com	clensare					
Pressure gauge	2"4	20 22	p kie	ed air	filter						
System flow rate	9550	Fm									
Blower Temperature	127 %										
Temp.at lag VPC discharge											
Other notes: ch	eck oil level,	drive belts, TEFC	motor	fan, any un	usual noise/vi	ibration					
PID Model:	- 0 0 1 -	-		Details:							
71	B RAF			Details. 0 / 10.00 ppm							
Calibration time/	date: 12 (2	120 0830		PID check	after monitor						
Sampling Point	Time	PID Reading (1)	PID	Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>			
SVE-01		Ventine									
SVE-02		89 PP6	7	6 PP B							
SVE-03		228 ppb	25	ilppb							
VPC Inlet		186 pps	18	4PPB							
VPC Midpoint											
VPC Outlet		( 1-	1								

Other vapor

point

Questions? Call Justin Nest At the Completion of a mon	te @ (360) 981-5606 itoring event scan monitoring forms and	d email to Justin Neste: Justin.Ne	ste@calibresys.com
Signature	) Nest C Printed Name	Signature	17 /Z Date

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

Signature

	and the second second	Operational	Parameters - N	/lonitoring interva	al is variable.		
Inspection Time:	1200	Motor	Hours: 5	364.5			
Blower	Curren	nt Value	Other Notes				
Vacuum gauge	40 "	1420	~ 1 ~ i	oneller Sorta d	rained		
Pressure	2"1	120	Sal C				
gauge System flow		ici=m					
rate	78	) ( 1 14)					
Blower Temperature	109°	, F					
Temp.at lag	1						
VPC discharge							
Other notes: che	eck oil level	, drive belts, TEFC	motor fan, any	unusual noise/v	ibration		
PID Model:	- 2 -		Details				
	PPB E	4 E	Details	0/10	2.01 ppm		
Calibration time/	date:	2/9 1200	PID ch	eck after monitor	ring:		
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated
SVE-01							
SVE-02		34 275	28 12 PS				
SVE-03		172 PP5	254ppb				
VDC I-I-4		200 224	202 ppb				
VPC Inlet							
VPC Midpoint		1					
VPC Inlet VPC Midpoint VPC Outlet Other vapor point							

Printed Name

Signature

Date

	check: vacuum, pressure, r	Date of last inspection: 17/9/20 moisture separator, water storage drums d VPC outlet with PID.
	Ope	rational Parameters - Monitoring interval is variable.
Inspection Time:	0750	Motor Hours: 5480.4
Blower	Current Value	Other Notes
Vacuum gauge	30.420	below venturi flow meter. Repaired pipel & openici SUE 1 4
Pressure gauge	2"Hw	
System flow rate	98 SEFM	150- 1 WILLIAM - 1,809 PPS / 1,797 PPS
Blower Temperature	10405	Pres = 2"400 (These reactings are suspect. SUE 1 just Flow = 858cfm repaired 11 PUL Priner/sine which PID Teme = 108°F is responsible to)
Temp.at lag VPC discharge		Tems = 108° F is responsive to.)
Other notes: che	ck oil level, drive bel	ts. TEFC motor fan, any unusual noise/vibration

PID Model: PPB RAE 3000			Details:	Details: 0 / 10:00 ppm			
Calibration time/	14/20 0800	PID check	PID check after monitoring:				
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>
SVE-01		Vent					
SVE-02		30 PP5	27 ppb				
SVE-03		178 200	189 PPS				
VPC Inlet		PIZPPS	201ppb				
VPC Midpoint							
VPC Outlet		0 776	U ppb				
Other vapor point							

<sup>1.</sup> 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 an	d email to Justin Neste: Justin.Nes	ste@calibresys.com
			1 1 1
Signature	) west	( pich	12/14/20
0.3	Printed Name	Signature	Date

		d VPC outlet with PID.  rational Parameters - Monitoring interval is variable.	
Inspection Time:	0830	Motor Hours: 5648.9	
Blower	Current Value	Other Notes	
Vacuum gauge	42"410	6 gal condensate, dry	
Pressure gauge	1"420	Changed blown oil	
System flow rate	855cFm	Short System down for holiday break.	
Blower Temperature	11205		
Temp.at lag VPC discharge			

Calibration time/ date:			PID che	PID check after monitoring:				
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>	
SVE-01		73 pps	59pps					
SVE-02		94 PP6	92 ppb					
SVE-03		OFF						
VPC Inlet		73 ppb	80 PPb					
VPC Midpoint								
VPC Outlet		OZZY	0 ,000					
Other vapor point								

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

Questions? Call Justin Nes At the Completion of a mon	te @ (360) 981-5606 itoring event scan monitoring forms and e	email to Justin Neste: Justin.Nes	te@calibresys.com
Signature	J Nest C Printed Name	Signature	12/2i/20

Inspection Date:	15/21	Date of last inspection: _	12/21/20
Periodic systems chec	k:		
1) Check flowrate, vac	uum, pressure, mo	isture separator, water storage	drums
2) Check each SVE we	ell, VPC inlet, and \	VPC outlet with PID.	
	A 10 20 30 1	CONTRACTOR OF THE PROPERTY OF	

	Ope	rational Parameters - Monitoring interval is variable.
Inspection Time:	0820	Motor Hours: 5649.6
Blower	Current Value	Other Notes
Vacuum gauge	40 410	Pestert System, 6910 Closed su£ 1 a opened su£3
Pressure	1"1420	100-40"H20 0920 - SUE-3 = 291/315 pps Pros-1"H20 SUE-TN- 189/204025
System flow rate	77 ScFm	Flow - 100 SCFM 0935 - SUEIN = 316/301025 - SUP1R = 5-04 - Justlevott
Blower Temperature	95°F	Temp - 98 F 1050 - 50 EZ = 123/117PPB 50 E3 = 335/328PPB
Temp.at lag VPC discharge		SVEIN- 337/333 ppb - Souph 5-09-Influent B

Other notes: check oil level, drive belts, TEFC motor fan, any unusual noise/vibration

PID Model:	PPB 1	2HE	Details:	0/10.01	ppm		
Calibration time/ date: 1/5/21 08 W			PID check	PID check after monitoring:			
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>
SVE-01	0900	94 896	93 ppb				
SVE-02		Wlppb	103 ppb				
SVE-03		off					
VPC Inlet		109 ppb	101 pp				
VPC Midpoint							
VPC Outlet							
Other vapor point							

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

Questions? Call Justin Nest	e @ (360) 981-5606		
	itoring event scan monitoring forms and	d email to Justin Neste: Justin.Ne	este@calibresys.com
		1	
270.00-1.00-	) W15th	(hom	115/21
Signature	Printed Name	Signature	Date

Inspection Time:	1435			eters - Mor	itoring interva	l is variable.		
Blower		t Value				her Notes		
Vacuum gauge	3006		collect -	To 15 Soupl-			Influent-(	
Pressure gauge	5" Hr	U						
System flow rate	105 50	FM						
Blower Temperature	1050							
Temp.at lag VPC discharge								
Other notes: che	ck oil level	, drive belts, T	EFC motor	fan, any un	usual noise/vi	bration		
PID Model:				Details:				
Calibration time/ o	late:			PID check	after monitor	ing:		
Sampling Point	Time	PID Readir	ding PID Reading (2)		Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated
SVE-01								
SVE-02		15 PP	354	アアウ				
SVE-03		239 PP	245	5ppb				
VPC Inlet		169 pps	96	PPS				
VPC Midpoint								
VPC Outlet								
Other vapor point								
		ne equation <i>Flow I</i>		$12.24 \times \sqrt{diff}$	erential pressure			

Inspection Date:	1/13/	21	Data of	loof increas	11-	1/21					
Periodic systems			Date of	last inspec	tion:						
1) Check flowrate,		ressure, moisture	separat	or, water st	orage drums						
		inlet, and VPC or									
					itoring interva	l is variable.					
Inspection Time:	0750	Motor	Hours	5840.	6						
Blower	Curren	t Value	Other Notes								
Vacuum gauge	30.110										
Pressure gauge	5"H20										
System flow rate	1055UFM										
Blower Temperature	103°F										
Temp.at lag VPC discharge											
Other notes: che	eck oil level,	drive belts, TEFC	motor	fan, any un	usual noise/vi	bration					
PID Model:	PPB R	AF		Details:	0 pp /	10.00 ppm					
Calibration time/	•	712		PAD 1 DIG PA							
Calibration time/	uale. 1/13/1	11 0750		PID check after monitoring:							
Sampling Point	Time	PID Reading (1)	PID	Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>			
SVE-01											
SVE-02		37 pps	38	PP5							
SVE-03		190 pps	22	4 PPb							
VPC Inlet		189 PP5	18	3 ppb							
VPC Midpoint											
VPC Outlet		Oppb	0 P	PS							
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 hitoring event scan monitoring forms and	email to Justin Neste: Justin Neste	e@calibresvs.com
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	Justi	1/50	1/13
Signature	Printed Name	Signature	Date

		Operational	Param	eters - Mor	nitoring interva	l is variable.		
Inspection Time:	1248	Moto	r Hours	: 615	7.4			
Blower	Curren				Ot	her Notes		
Vacuum gauge	30"4	10	5 gal	condensar	re decoine	Â.		
Pressure gauge	2: Hz	.0						
System flow rate	105867	m						
Blower Temperature	102°F							
Temp.at lag VPC discharge								
Other notes: che	ck oil level,	drive belts, TEFC	motor	fan, any un	usual noise/vi	bration		
PID Model:	PPB RI	JE		Details:	O 206/	9,998 21	>5	
Calibration time/	date: 1/2	0/21 1250		PID check	after monitor			
Sampling Point	Time	PID Reading (1)	PID	Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated
SVE-01		Vent						
SVE-02		79 pp	56	PPS				
SVE-03		156 pp5	179	PPb				
VPC Inlet		186 pph	16	Sppb				
VPC Midpoint								
VPC Outlet								
Other vapor point								
Flow rate calc	ulated from the	e equation Flow Rate	(cfm) = 1	$12.24 \times \sqrt{diff}$	erential pressure			

Inspection Time:	1216				6511	itoring interva	i is variable.				
Blower		t Value			0 - 1		ner Notes				
Vacuum gauge	30*		î	) raine	d 7501	Conden 5++					
Pressure gauge	2" 14							Snow inform	casi.		
System flow rate	105 5	)(FM									
Blower Temperature	1010	F									
Temp.at lag VPC discharge											
Other notes: che	ck oil level	, drive belts	, TEFC	motor	fan, any un	usual noise/vi	bration				
PID Model:					Details:						
Calibration time/ date:					PID check	after monitor	ing:				
Sampling Point	Time	PID Rea	PID Reading (1)		Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated		
SVE-01		ver	~								
SVE-02		17 P	Pb	18 7	p5						
SVE-03		181 P	26	238	PPb						
VPC Inlet		213	PPb	24	c ppb						
VPC Midpoint											
VPC Outlet											
Other vapor point			101								
1. Flow rate calculations? Call Just the Completion	stin Neste	@ (360) 98	1-5606			erential pressure		.Neste@calibre	esys.com		

Inspection Time:	1317	Opera	Motor F			itoring interva	i is variable.			
Blower	Curren	t Value			6316		ner Notes			
Vacuum gauge	32"1		Tu	rned	Systum					
Pressure gauge	5"1.	120								
System flow rate	1055	CFM								
Blower Temperature	7101									
Temp.at lag VPC discharge										
Other notes: ch	eck oil level,	drive belts	, TEFC r	motor	fan, any un	usual noise/vi	bration			
PID Model:				Details:						
Calibration time/ date:					PID check	after monitor	ing:			
Sampling Point	Time	PID Rea	ding	PID Reading (2)		Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated	
SVE-01										
SVE-02										
SVE-03										
VPC Inlet										
VPC Midpoint										
VPC Outlet										
Other vapor point										
ງuestions? Call Jເ	ıstin Neste	@ (360) 98	1-5606			erential pressure		.Neste@calibre	esys.com	

Inspection Time:	AV. 2	Operational Motor	Param Hours	eters - Mon	itoring interva	l is variable.				
Blower	Ourrent			6681		har Notes				
Vacuum gauge	612.1		Distinct I god condensate							
Pressure gauge	5' H2									
System flow rate	100 506	=iM								
Blower Temperature	106°F									
Temp.at lag VPC discharge										
Other notes: che	ck oil level,	drive belts, TEFC	motor	fan, any un	usual noise/vi	bration				
PID Model:	PPB RAE			Details:	171	000				
Calibration time/ o				PID check	after monitor	9.92 ppn ing:				
Sampling Point	Time	PID Reading (1)	PID	Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated		
SVE-01		Vent								
SVE-02		201 ppb	40	5 ppb						
SVE-03		3171 ppb		5 ppb						
VPC Inlet		3100 ppb	387	1 276						
VPC Midpoint										
VPC Outlet										
Other vapor point										
	stin Neste @	e equation Flow Rate (					.Neste@calibre			

2) Check each SVE	well, VPC inlet, and	noisture separator, water storage drums d VPC outlet with PID.	
	Ope	rational Parameters - Monitoring interval is variable.	
Inspection Time: 0730		Motor Hours: 6823.2	
Blower	Current Value	Other Notes	
Vacuum gauge	32"H20	1/2 gal condensate drained	11110
Pressure gauge	5" Hw		
System flow rate	1055 CFM		
Blower Temperature	100,8		
Temp.at lag VPC discharge			

	PPB RE	1-00	Details:	Details: Opph / 9.96 ppm						
Calibration time/	date: 3/	3/21 0730	PID chec	PID check after monitoring:						
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>			
SVE-01										
SVE-02		75 pp5	82 ppb							
SVE-03		312 ppb	301 ppb							
VPC Inlet		296 ppb	301 ppb							
VPC Midpoint										
VPC Outlet		0006	O ppb							
Other vapor point										

<sup>1.</sup> 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 oring event scan monitoring forms and	l email to Justin Neste: Justin.Ne	ste@calibresys.com
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Signature	Printed Name	Signature	Date

Inspection Time:	0905		Motor Ho	ours: 69 (	onitoring interva	l is variable.		
Blower	· .	t Value		696		her Notes		
Vacuum gauge	41"112		1 0	I conden		ilei Motes		
Pressure gauge	5" Hz		1 70	( (0)				
System flow rate	10554	cm						
Blower Temperature	10708							
Temp.at lag VPC discharge								
Other notes: che	ck oil level	, drive belt	s, TEFC mo	otor fan, any u	nusual noise/vi	bration	3460	
PID Model:	222			Details:		,		
***************************************	PB12H				D PPS	( 10.00 p	pm	
Calibration time/	rate: 3/	9/21 0	905	PID che	ck after monitor	ing:		
Sampling Point	Time	PID Re		PID Reading (1)	PID Z	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated
SVE-01				Vent				
SVE-02				35 ppb	57ppb			
SVE-03				409 ppb	412 ppb			
VPC Inlet				353 ppb	382 ppb			
VPC Midpoint								
VPC Outlet								
Other vapor point								
Flow rate calc	ulated from th	e equation F	low Rate (cfm	$(1) = 12.24 \times \sqrt{dif}$	ferential pressure			

		d VPC outlet with PID.  rational Parameters - Monitoring interval is variable.	
Inspection Time:	0830	Motor Hours: 1182.8	
Blower	Current Value	Other Notes	
Vacuum gauge	·33"H2V	112 galcondensate domined	
Pressure gauge	5"H20		
System flow rate	105SCFM		
Blower Temperature	10308		
Temp.at lag VPC discharge			

Calibration time/	121 0830	PID chec	PID check after monitoring:					
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>	
SVE-01			Vent					
SVE-02			26 ppb	24 ppb				
SVE-03			153 ppb	151 ppb				
VPC Inlet			148 PP6	151 pps				
VPC Midpoint								
VPC Outlet			O pp5	0 000				
Other vapor point								

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

Questions? Call Justin Nes At the Completion of a mon	te @ (360) 981-5606 itoring event scan monitoring forms an	d email to Justin Neste: Justin.Nes	te@calibresys.com
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Signature	Printed Name	Signature	Date

Inspection Time:	1100		Hours:		itoring interval	is variable.		
Blower	Current	Value		. / .		ner Notes		
Vacuum gauge	33"	- 1	14 0	gent cond	ensate donin			
Pressure gauge	5"42							
System flow rate	10550	FM						
Blower Temperature	106°F							
Temp.at lag VPC discharge								
Other notes: chec	ck oil level,	drive belts, TEFC	motor	fan, any un	usual noise/vi	bration		
PID Model:	PBRH3	000		Details:		9996 Pph	,	
Calibration time/ d	ate: 3/26	121 1100		PID check	after monitori	ng:		
Sampling Point	Time	PID Reading (1)	PID	Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated
SVE-01		Vent						
SVE-02		65 pps	77	PPS				
SVE-03		200 ppb	194	PPb				
VPC Inlet		177 000	193	PPb				
VPC Midpoint								
VPC Outlet								
Other vapor point								
1. Flow rate calcu	lated from the	e equation Flow Rate	(cfm) = :	$12.24 \times \sqrt{diff}$	erential pressure			

Inspection Date: _ Periodic systems c	heck:	Date of last inspection:3 126/21	
1) Check flowrate,		oisture separator, water storage drums	
z) Oncok cach ovi		tional Parameters - Monitoring interval is variable.	
Inspection Time:	0815	Motor Hours: 7395.1	
Blower	Current Value	Other Notes	
Vacuum gauge	33"Hz0	1/2 gal Condensate drained	
Pressure gauge	5" H2U	Changel vil - restart @ 1400	
System flow rate	Flow 105 Sc Fm		
Blower Temperature	105°F		
Temp.at lag VPC discharge			

PID Model:	Model: PPBRAE 3000			OPPS	1 10.00	PDin		
Calibration time/	1/21 0815	PID check	PID check after monitoring:					
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>	
SVE-01		vent						
SVE-02		73 pp6	51ppb					
SVE-03		185 ppb	204 PPb					
VPC Inlet		190 ppb	192 pps					
VPC Midpoint								
VPC Outlet		0 000	0 226					
Other vapor point								

<sup>1.</sup> 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

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Signature	Printed Name	Signature	Date

	E well, VPC inlet, and	noisture separator, water storage drums d VPC outlet with PID.
	Ope	rational Parameters - Monitoring interval is variable.
Inspection Time:	0921	Motor Hours: 7395.1 (no meter not merizing - ordered replace
Blower	<b>Current Value</b>	Other Notes
Vacuum gauge	33"420	1/2 gal condensate Opanined
Pressure gauge	5" H20	
System flow rate	105 sct-m	
Blower Temperature	10708	
Temp.at lag VPC discharge		

PID Model:	PB RAE	3000	Details:	OPPS	110.01pp			
Calibration time/	8/21 0921	PID checl	PID check after monitoring:					
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>	
SVE-01		vent						
SVE-02		98 PP5	108 ppb					
SVE-03		248 pp	233 ppb					
VPC Inlet		176 ppb	178 ppb					
VPC Midpoint								
VPC Outlet		O PPS	0 1776					
Other vapor point								

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

Questions? Call Justin Nest At the Completion of a moni	e @ (360) 981-5606 toring event scan monitoring forms and e	mail to Justin Neste: Justin.Nes	te@calibresys.com
Signature	J Nester	In	418
	Printed Name	Signature	Date

nspection Date: _	4 (15)	121	Date of	last inspec	tion:	18/21		
) Check flowrate,	vacuum, p	ressure, moisture	separa	tor, water s	torage drums	3		
check each Sv	E well, VPC	inlet, and VPC o			nitorina interv	al is variable.		
Inspection Time:	1200	Moto	r Hours	7395	5.1 Will	Reday HR	when	Or Dlainmy 11
Blower	Curren	t Value		*******	0	ther Notes		armires
Vacuum gauge	30"4.	20						
Pressure gauge	5" Hz							
System flow rate	10550	in						
Blower Temperature	1150F							
Temp.at lag VPC discharge								
	ck oil level,	drive belts, TEFC	motor	fan, any un	usual noise/	vibration		
	-							
PID Model:	PB RAE	3000		Details:	0 205	1 9.8 pp	7	
Calibration time/	late: 4	15 1200		PID check	after monito			
Sampling Point	Time	PID Reading (1)	PID	Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate
SVE-01								
SVE-02		Oppb	O P	Pb				
SVE-03		221 ppb	190	9 PPb				
VPC Inlet		120 229 225	16	2 225				
VPC Midpoint								
VPC Outlet		0 226	80	واح				
Other vapor								
1 Flow rate calc	ulated from th	e equation Flow Rate	(cfm) =	12.24 x /diff	erential messu	re		
	andread in print the	o oquadion i ton nate	(0) 111) -	LE.LIN VULLI	ci cillul pi essu	e.		

Printed Name

Signature

Date

Signature

) Check each SVE		d VPC outlet with PID.  rational Parameters - Monitoring interval is variable.	
Inspection Time:	0930	Motor Hours: 0.0 (Installed new hr meter	
Blower	Current Value	Other Notes	
Vacuum gauge	31"H20	No conclus serte	i peri
Pressure gauge	3" H20		
System flow rate	1053cFm		
Blower Temperature	10906		
Temp.at lag VPC discharge			

Calibration time/ date: 5/4/11 0930 PID check after monitoring:							
Sampling Point	Time	PID Reading (1)	PID Reading (2)	Vacuum	Flow Rate (gauge)	Differential Pressure	Flow Rate Calculated <sup>1</sup>
SVE-01							
SVE-02		20 ppb	25 ppb				
SVE-03		136 ppb	147 ppb				
VPC Inlet		132 ppb	140 ppb				
VPC Midpoint							
VPC Outlet		Oppb	D pp6				
Other vapor point							

<sup>1.</sup> 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	e @ (360) 981-5606 toring event scan monitoring forms an	d email to Justin Neste: Justin.Nes	ste@calibresys.com
Signature	Justin Nisk Printed Name	Signature	5/4/11 Date

### Attachment B: TO-15 Laboratory Data Package



1/21/2021 Mr. Justin Neste CALIBRE, Environmental Technology Solutions 20926 Pugh Rd NE

Poulsbo WA 98370

Project Name: Renton 5-09

Project #:

Workorder #: 2101105

Dear Mr. Justin Neste

The following report includes the data for the above referenced project for sample(s) received on 1/8/2021 at Eurofins Air Toxics LLC.

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

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

Regards,

Alexandra Winslow

Project Manager



### **WORK ORDER #:** 2101105

Work Order Summary

**CLIENT:** Mr. Justin Neste BILL TO: Accounts Payable

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

Solutions

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

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

FAX: PROJECT # Renton 5-09

DATE RECEIVED: 01/08/2021 **CONTACT:** Alexandra Winslow

DATE COMPLETED: 01/21/2021

			RECEIPT	FINAL
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.	<b>PRESSURE</b>
01A	5-09-Influent-A	TO-15	5.7 "Hg	14.9 psi
02A	5-09-Influent-B	TO-15	4.1 "Hg	15 psi
03A	5-09-Influent-C	TO-15	3.3 "Hg	15 psi
04A	Lab Blank	TO-15	NA	NA
05A	CCV	TO-15	NA	NA
06A	LCS	TO-15	NA	NA
06AA	LCSD	TO-15	NA	NA

	Meide Mayer	
CERTIFIED BY:	0 00	DATE: 01/21/21

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP - E87680, LA NELAP - 02089, NH NELAP - 209220, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT NELAP - CA009332020-12, VA NELAP - 10615, WA NELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.

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



### LABORATORY NARRATIVE EPA Method TO-15 CALIBRE, Environmental Technology Solutions Workorder# 2101105

Three 1 Liter Summa Canister samples were received on January 08, 2021. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

### **Receiving Notes**

There were no receiving discrepancies.

### **Analytical Notes**

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

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

The hydrocarbon profile present in sample 5-09-Influent-C did not resemble that of commercial gasoline. Results were calculated using the response factor derived from the gasoline calibration.

### **Definition of Data Qualifying Flags**

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

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

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



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

Client Sample ID: 5-09-Influent-A

Lab ID#: 2101105-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	(ug/m3)	Amount (ug/m3)	
cis-1,2-Dichloroethene	1.2	3.4	4.9	14	
1,1,1-Trichloroethane	1.2	1.4	6.8	7.6	
Trichloroethene	1.2	9.8	6.7	53	
Tetrachloroethene	1.2	83	8.4	560	

Client Sample ID: 5-09-Influent-B

Lab ID#: 2101105-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	1.2	2.1	4.6	8.4
Trichloroethene	1.2	1.5	6.3	8.0
Tetrachloroethene	1.2	1.6	7.9	11

Client Sample ID: 5-09-Influent-C

Lab ID#: 2101105-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	11	92	27	220
Hexane	1.1	22	4.0	77
2-Butanone (Methyl Ethyl Ketone)	4.5	14	13	42
cis-1,2-Dichloroethene	1.1	2.3	4.5	9.2
Benzene	1.1	47	3.6	150
Trichloroethene	1.1	6.0	6.1	32
Toluene	1.1	73	4.3	280
Tetrachloroethene	1.1	75	7.7	510
Ethyl Benzene	1.1	12	4.9	50
m,p-Xylene	1.1	23	4.9	98
o-Xylene	1.1	8.7	4.9	38
Cumene	1.1	2.4	5.6	12
Propylbenzene	1.1	4.9	5.6	24
1,3,5-Trimethylbenzene	1.1	4.5	5.6	22
1,2,4-Trimethylbenzene	1.1	18	5.6	89
TPH ref. to Gasoline (MW=100)	110	2200	460	9000



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

Client Sample ID: 5-09-Influent-C

Lab ID#: 2101105-03A

Octane	4.5	8.7	21	41
Decane	4.5	33	26	190
Dodecane	11	26	79	180



### Client Sample ID: 5-09-Influent-A Lab ID#: 2101105-01A

### **EPA METHOD TO-15 GC/MS FULL SCAN**

File Name: p011220 Date of Collection: 1/5/21 9:39:00 AM
Dil. Factor: 2.48 Date of Analysis: 1/12/21 10:28 PM

Dil. Factor:	2.48	Date	of Analysis: 1/12/	21 10:28 PM
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
Chloromethane	12	Not Detected	26	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
Freon 113	1.2	Not Detected	9.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Acetone	12	Not Detected	29	Not Detected
Carbon Disulfide	5.0	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	1.2	3.4	4.9	14
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	1.4	6.8	7.6
Benzene	1.2	Not Detected	4.0	Not Detected
Trichloroethene	1.2	9.8	6.7	53
Toluene	1.2	Not Detected	4.7	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Tetrachloroethene	1.2	83	8.4	560
Chlorobenzene	1.2	Not Detected	5.7	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	Not Detected	5.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected
Styrene	1.2	Not Detected	5.3	Not Detected
Cumene	1.2	Not Detected	6.1	Not Detected
Propylbenzene	1.2	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
TPH ref. to Gasoline (MW=100)	120	Not Detected	510	Not Detected
Acetonitrile	12	Not Detected	21	Not Detected
Vinyl Acetate	5.0	Not Detected	17	Not Detected
Octane	5.0	Not Detected	23	Not Detected
Pentane	5.0	Not Detected	15	Not Detected
Butylbenzene	5.0	Not Detected	27	Not Detected
Decane	5.0	Not Detected	29	Not Detected
Dodecane	12	Not Detected	86	Not Detected
sec-Butylbenzene	5.0	Not Detected	27	Not Detected
p-Cymene	5.0	Not Detected	27	Not Detected

Container Type: 1 Liter Summa Canister



### Client Sample ID: 5-09-Influent-A Lab ID#: 2101105-01A

### EPA METHOD TO-15 GC/MS FULL SCAN

 File Name:
 p011220
 Date of Collection: 1/5/21 9:39:00 AM

 Dil. Factor:
 2.48
 Date of Analysis: 1/12/21 10:28 PM

		Wethod
Surrogates	%Recovery	Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	104	70-130



### Client Sample ID: 5-09-Influent-B Lab ID#: 2101105-02A

### **EPA METHOD TO-15 GC/MS FULL SCAN**

File Name: p011221 Date of Collection: 1/5/21 10:56:00 AM
Dil. Factor: 2.34 Date of Analysis: 1/12/21 10:57 PM

	2.57	Date	Of Affaiysis. 1/12/	21 10.57 1 141
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Freon 113	1.2	Not Detected	9.0	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	Not Detected	28	Not Detected
Carbon Disulfide	4.7	Not Detected	14	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	2.1	4.6	8.4
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
Trichloroethene	1.2	1.5	6.3	8.0
Toluene	1.2	Not Detected	4.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	1.6	7.9	11
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.1	Not Detected
m,p-Xylene	1.2	Not Detected	5.1	Not Detected
o-Xylene	1.2	Not Detected	5.1	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
TPH ref. to Gasoline (MW=100)	120	Not Detected	480	Not Detected
Acetonitrile	12	Not Detected	20	Not Detected
Vinyl Acetate	4.7	Not Detected	16	Not Detected
Octane	4.7	Not Detected	22	Not Detected
Pentane	4.7	Not Detected	14	Not Detected
Butylbenzene	4.7	Not Detected	26	Not Detected
Decane	4.7	Not Detected	27	Not Detected
Dodecane	12	Not Detected	82	Not Detected
	12	1 tot Dotootoa		
sec-Butylbenzene	4.7	Not Detected	26	Not Detected

Container Type: 1 Liter Summa Canister



### Client Sample ID: 5-09-Influent-B Lab ID#: 2101105-02A

### EPA METHOD TO-15 GC/MS FULL SCAN

File Name: p011221 Date of Collection: 1/5/21 10:56:00 AM
Dil. Factor: 2.34 Date of Analysis: 1/12/21 10:57 PM

0/ 0	wetnod
%Recovery	Limits
101	70-130
100	70-130
104	70-130
	100



### Client Sample ID: 5-09-Influent-C Lab ID#: 2101105-03A

### **EPA METHOD TO-15 GC/MS FULL SCAN**

File Name: p011222 Date of Collection: 1/5/21 2:56:00 PM
Dil. Factor: 2.27 Date of Analysis: 1/12/21 11:27 PM

	2.21	Date	Of Allalysis. 1/12/	21 11.21 1 101
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	11	Not Detected	23	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Freon 113	1.1	Not Detected	8.7	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	92	27	220
Carbon Disulfide	4.5	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	22	4.0	77
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.5	14	13	42
cis-1,2-Dichloroethene	1.1	2.3	4.5	9.2
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Benzene	1.1	47	3.6	150
Trichloroethene	1.1	6.0	6.1	32
Toluene	1.1	73	4.3	280
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	75	7.7	510
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	12	4.9	50
m,p-Xylene	1.1	23	4.9	98
o-Xylene	1.1	8.7	4.9	38
Styrene	1.1	Not Detected	4.8	Not Detected
Cumene	1.1	2.4	5.6	12
Propylbenzene	1.1	4.9	5.6	24
1,3,5-Trimethylbenzene	1.1	4.5	5.6	22
1,2,4-Trimethylbenzene	1.1	18	5.6	89
TPH ref. to Gasoline (MW=100)	110	2200	460	9000
Acetonitrile	11	Not Detected	19	Not Detected
Vinyl Acetate	4.5	Not Detected	16	Not Detected
Octane	4.5	8.7	21	41
Pentane	4.5	Not Detected	13	Not Detected
Butylbenzene	4.5	Not Detected	25	Not Detected
Decane	4.5	33	26	190
-				
Dodecane	 11	26	79	180
Dodecane sec-Butylbenzene	11 4.5	26 Not Detected	79 25	180 Not Detected

Container Type: 1 Liter Summa Canister

Surrogates %Recovery Limits



### Client Sample ID: 5-09-Influent-C Lab ID#: 2101105-03A

### EPA METHOD TO-15 GC/MS FULL SCAN

 File Name:
 p011222
 Date of Collection: 1/5/21 2:56:00 PM

 Dil. Factor:
 2.27
 Date of Analysis: 1/12/21 11:27 PM

		Method
Surrogates	%Recovery	Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	103	70-130



### Client Sample ID: Lab Blank Lab ID#: 2101105-04A

### **EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	p011206f	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/12/21 01:08 PM

	1.00	Date	Ol Allalysis. 1/12/	2 1 0 1.00 1 W
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
TPH ref. to Gasoline (MW=100)	50	Not Detected	200	Not Detected
Acetonitrile	5.0	Not Detected	8.4	Not Detected
Vinyl Acetate	2.0	Not Detected	7.0	Not Detected
Octane	2.0	Not Detected	9.3	Not Detected
Pentane	2.0	Not Detected	5.9	Not Detected
Butylbenzene	2.0	Not Detected	11	Not Detected
Decane	2.0	Not Detected	12	Not Detected
Dodecane	5.0	Not Detected	35	Not Detected
sec-Butylbenzene	2.0	Not Detected	11	Not Detected

**Container Type: NA - Not Applicable** 



### Client Sample ID: Lab Blank Lab ID#: 2101105-04A

### **EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	p011206f	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/12/21 01:08 PM

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



### Client Sample ID: CCV Lab ID#: 2101105-05A

### **EPA METHOD TO-15 GC/MS FULL SCAN**

File Name: p011202 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 1/12/21 11:14 AM

Chloromethane         100           Vinyl Chloride         100           Freon 113         97           1,1-Dichloroethene         106           Acetone         94           Carbon Disulfide         98           Methylene Chloride         99           trans-1,2-Dichloroethene         104           Hexane         106           1,1-Dichloroethane         106           2-Butanone (Methyl Ethyl Ketone)         106           cis-1,2-Dichloroethane         105           Chloroform         105           Chloroform         105           1,1,1-Trichloroethane         100           Benzene         101           Trichloroethene         101           Trichloroethane         102           Tetrachloroethane         102           Tetrachloroethane         102           Tetrachloroethane         102           Chlorobenzene         101           Ethyl Benzene         104           mp-Xylene         106           O-Xylene         106           Styrene         110           Cumene         107           Propylbenzene         106           TPH ref.	Compound	%Recovery
Freon 113         97           1,1-Dichloroethene         106           Acetone         94           Carbon Disulfide         98           Methylene Chloride         99           trans-1,2-Dichloroethene         104           Hexane         106           1,1-Dichloroethane         106           2-Butanone (Methyl Ethyl Ketone)         106           cis-1,2-Dichloroethene         105           Chloroform         105           1,1,1-Trichloroethane         100           Benzene         101           Trichloroethane         102           Totluene         99           1,1,2-Trichloroethane         102           Tetrachloroethene         101           Ethyl Benzene         104           mp-Xylene         106           o-Xylene         106           Styrene         106           Styrene         107           Torpoybenzene         104           1,3,5-Trimethylbenzene         106           Typ-H ref. to Gasoline (MW=100)         100           Acetonitrile         95           Viryl Acetate         117           Octane         100	Chloromethane	100
1,1-Dichloroethene     106       Acetone     94       Carbon Disulfide     98       Methylene Chloride     99       trans-1,2-Dichloroethene     104       Hexane     106       1,1-Dichloroethane     106       2-Butanone (Methyl Ethyl Ketone)     106       cis-1,2-Dichloroethene     105       Chloroform     105       1,1,1-Trichloroethane     100       Benzene     101       Trichloroethene     101       Toluene     99       1,1,2-Trichloroethane     102       Tetrachloroethene     102       Chlorobenzene     101       Ethyl Benzene     104       m,p-Xylene     106       Styrene     106       Styrene     106       Styrene     106       Styrene     107       Propylbenzene     104       1,3,5-Trimethylbenzene     106       TPH ref. to Gasoline (MW=100)     100       Acetonitrile     95       Vinyl Acetate     117       Octane     100       Pentane     98       Butylbenzene     106       Dodecane     102       Dodecane     102       Dodecane     102       Dodecane </td <td>Vinyl Chloride</td> <td>100</td>	Vinyl Chloride	100
Acetone         94           Carbon Disulfide         98           Methylene Chloride         99           trans-1,2-Dichloroethene         104           Hexane         106           1,1-Dichloroethane         106           2-Butanone (Methyl Ethyl Ketone)         106           cis-1,2-Dichloroethene         105           Chloroform         105           1,1,1-Trichloroethane         100           Benzene         101           Trichloroethene         101           Toluene         99           1,1,2-Trichloroethane         102           Tetrachloroethene         102           Chlorobenzene         101           Ethyl Benzene         106           np-Xylene         106           o-Xylene         106           Styrene         106           Cumene         107           Propylbenzene         104           1,3,5-Trimethylbenzene         106           Charrier         106           Yiryl Acetate         117           Octane         100           Pentane         98           Butylbenzene         106           Dodecane	Freon 113	97
Action         94           Carbon Disulfide         98           Methylene Chloride         99           trans-1,2-Dichloroethene         104           Hexane         106           1,1-Dichloroethane         106           2-Butanone (Methyl Ethyl Ketone)         106           cis-1,2-Dichloroethene         105           Chloroform         105           1,1,1-Trichloroethane         100           Benzene         101           Trichloroethene         101           Toluene         99           1,1,2-Trichloroethane         102           Tetrachloroethene         102           Chlorobenzene         101           Ethyl Benzene         104           np-Xylene         106           0-Xylene         106           Styrene         106           Cumene         107           Propylbenzene         104           1,3,5-Trimethylbenzene         106           1,2,4-Trimethylbenzene         106           Thyl ref. to Gasoline (MW=100)         100           Acetonitrile         95           Vinj Acetate         117           Octane         100	1,1-Dichloroethene	106
Methylene Chloride         99           trans-1,2-Dichloroethene         104           Hexane         106           1,1-Dichloroethane         106           2-Butanone (Methyl Ethyl Ketone)         106           cis-1,2-Dichloroethene         105           Chloroform         105           1,1,1-Trichloroethane         100           Benzene         101           Trichloroethene         101           Toluene         99           1,1,2-Trichloroethane         102           Tetrachloroethene         102           Chlorobenzene         101           Ethyl Benzene         104           m,p-Xylene         106           o-Xylene         106           Styrene         107           Propylbenzene         107           Propylbenzene         104           1,3,5-Trimethylbenzene         106           1,2,4-Trimethylbenzene         106           TyH ref. to Gasoline (MW=100)         100           Acetonitrile         95           Vinyl Acetate         117           Octane         98           Butylbenzene         106           Decane         102 <tr< td=""><td></td><td>94</td></tr<>		94
trans-1,2-Dichloroethene         104           Hexane         106           1,1-Dichloroethane         106           2-Butanone (Methyl Ethyl Ketone)         106           cis-1,2-Dichloroethene         105           Chloroform         105           1,1,1-Trichloroethane         100           Benzene         101           Trichloroethene         101           Toluene         99           1,1,2-Trichloroethane         102           Tetrachloroethene         102           Chlorobenzene         101           Ethyl Benzene         104           m,P-Xylene         106           O-Xylene         106           Styrene         110           Cumene         107           Propylbenzene         104           1,3,5-Trimethylbenzene         106           TPH ref. to Gasoline (MW=100)         100           Acetonitrile         95           Vinyl Acetate         117           Octane         100           Pentane         98           Butylbenzene         106           Dodecane         102           Dodecane         102           Dodecane	Carbon Disulfide	98
Hexane	Methylene Chloride	99
1,1-Dichloroethane     106       2-Butanone (Methyl Ethyl Ketone)     106       cis-1,2-Dichloroethene     105       Chloroform     105       1,1,1-Trichloroethane     100       Benzene     101       Trichloroethene     101       Toluene     99       1,1,2-Trichloroethane     102       Tetrachloroethene     102       Chlorobenzene     101       Ethyl Benzene     104       m,p-Xylene     106       o-Xylene     106       Styrene     106       Styrene     107       Propylbenzene     107       1,3,5-Trimethylbenzene     102       1,2,4-Trimethylbenzene     106       TPH ref. to Gasoline (MW=100)     100       Acetonitrile     95       Vinyl Acetate     117       Octane     100       Pentane     98       Butylbenzene     106       Docane     106       Docane     102       Dodecane     102       Dodecane     102       Dodecane     104       Expendit File State Stat	trans-1,2-Dichloroethene	104
2-Butanone (Methyl Ethyl Ketone)       106         cis-1,2-Dichloroethene       105         Chloroform       105         1,1,1-Trichloroethane       100         Benzene       101         Trichloroethene       101         Toluene       99         1,1,2-Trichloroethane       102         Tetrachloroethene       102         Chlorobenzene       101         Ethyl Benzene       104         m,p-Xylene       106         o-Xylene       106         Styrene       110         Cumene       107         Propylbenzene       104         1,3,5-Trimethylbenzene       102         1,2,4-Trimethylbenzene       106         TPH ref. to Gasoline (MW=100)       100         Acetonitrile       95         Vinyl Acetate       117         Octane       100         Pentane       98         Butylbenzene       106         Decane       102         Dodecane       102         Dodecane       102         Dodecane       102         Bodecane       104	Hexane	106
cis-1,2-Dichloroethene         105           Chloroform         105           1,1,1-Trichloroethane         100           Benzene         101           Trichloroethene         101           Toluene         99           1,1,2-Trichloroethane         102           Cthorobenzene         101           Ethyl Benzene         104           m,p-Xylene         106           o-Xylene         106           Styrene         110           Cumene         107           Propylbenzene         104           1,3,5-Trimethylbenzene         106           1,2,4-Trimethylbenzene         106           TPH ref. to Gasoline (MW=100)         100           Acetonitrile         95           Vinyl Acetate         117           Octane         100           Pentane         98           Butylbenzene         106           Decane         102           Dodecane         102           Dodecane         112           sec-Butylbenzene         104	1,1-Dichloroethane	106
cis-1,2-Dichloroethene         105           Chloroform         105           1,1,1-Trichloroethane         100           Benzene         101           Trichloroethene         101           Toluene         99           1,1,2-Trichloroethane         102           Tetrachloroethane         102           Chlorobenzene         101           Ethyl Benzene         104           m,p-Xylene         106           o-Xylene         106           Styrene         110           Cumene         107           Propylbenzene         104           1,3,5-Trimethylbenzene         106           1,2,4-Trimethylbenzene         106           TPH ref. to Gasoline (MW=100)         100           Acetonitrile         95           Vinyl Acetate         117           Octane         100           Pentane         98           Butylbenzene         106           Decane         102           Dodecane         102           Dodecane         112           sec-Butylbenzene         104	2-Butanone (Methyl Ethyl Ketone)	106
1,1,1-Trichloroethane       101         Benzene       101         Trichloroethene       101         Toluene       99         1,1,2-Trichloroethane       102         Tetrachloroethene       102         Chlorobenzene       101         Ethyl Benzene       104         m,p-Xylene       106         o-Xylene       106         Styrene       110         Cumene       107         Propylbenzene       104         1,3,5-Trimethylbenzene       102         1,2,4-Trimethylbenzene       106         TPH ref. to Gasoline (MW=100)       100         Acetonitrile       95         Vinyl Acetate       117         Octane       100         Pentane       98         Butylbenzene       106         Decane       102         Dodecane       102         Dodecane       102         Dodecane       112         sec-Butylbenzene       104		105
Benzene         101           Trichloroethene         101           Toluene         99           1,1,2-Trichloroethane         102           Tetrachloroethene         102           Chlorobenzene         101           Ethyl Benzene         104           m,p-Xylene         106           o-Xylene         106           Styrene         110           Cumene         107           Propylbenzene         104           1,3,5-Trimethylbenzene         106           TPH ref. to Gasoline (MW=100)         100           Acetonitrile         95           Vinyl Acetate         117           Octane         100           Pentane         98           Butylbenzene         106           Decane         102           Dodecane         102           Dodecane         102           Dodecane         102           Dodecane         104	Chloroform	105
Benzene         101           Trichloroethene         101           Toluene         99           1,1,2-Trichloroethane         102           Tetrachloroethene         102           Chlorobenzene         101           Ethyl Benzene         104           m,p-Xylene         106           o-Xylene         106           Styrene         110           Cumene         107           Propylbenzene         104           1,3,5-Trimethylbenzene         102           1,2,4-Trimethylbenzene         106           TPH ref. to Gasoline (MW=100)         100           Acetonitrile         95           Vinyl Acetate         117           Octane         100           Pentane         98           Butylbenzene         106           Decane         102           Dodecane         102           Dodecane         102           Dodecane         102           Exc-Butylbenzene         104	1,1,1-Trichloroethane	100
Toluene         99           1,1,2-Trichloroethane         102           Tetrachloroethene         102           Chlorobenzene         101           Ethyl Benzene         104           m,p-Xylene         106           o-Xylene         106           Styrene         110           Cumene         107           Propylbenzene         104           1,3,5-Trimethylbenzene         102           1,2,4-Trimethylbenzene         106           TPH ref. to Gasoline (MW=100)         100           Acetonitrile         95           Vinyl Acetate         117           Octane         100           Pentane         98           Butylbenzene         106           Decane         102           Dodecane         102           Dodecane         112           sec-Butylbenzene         104		101
1,1,2-Trichloroethane       102         Tetrachloroethene       102         Chlorobenzene       101         Ethyl Benzene       104         m,p-Xylene       106         o-Xylene       106         Styrene       110         Cumene       107         Propylbenzene       104         1,3,5-Trimethylbenzene       106         1,2,4-Trimethylbenzene       106         TPH ref. to Gasoline (MW=100)       100         Acetonitrile       95         Vinyl Acetate       117         Octane       100         Pentane       98         Butylbenzene       106         Decane       102         Dodecane       102         Dodecane       112         sec-Butylbenzene       104	Trichloroethene	101
Tetrachloroethene         102           Chlorobenzene         101           Ethyl Benzene         104           m,p-Xylene         106           o-Xylene         106           Styrene         110           Cumene         107           Propylbenzene         104           1,3,5-Trimethylbenzene         102           1,2,4-Trimethylbenzene         106           TPH ref. to Gasoline (MW=100)         100           Acetonitrile         95           Vinyl Acetate         117           Octane         100           Pentane         98           Butylbenzene         106           Decane         102           Dodecane         102           Dodecane         112           sec-Butylbenzene         104	Toluene	99
Chlorobenzene       101         Ethyl Benzene       104         m,p-Xylene       106         o-Xylene       106         Styrene       110         Cumene       107         Propylbenzene       104         1,3,5-Trimethylbenzene       102         1,2,4-Trimethylbenzene       106         TPH ref. to Gasoline (MW=100)       100         Acetonitrile       95         Vinyl Acetate       117         Octane       100         Pentane       98         Butylbenzene       106         Decane       102         Dodecane       102         Dodecane       112         sec-Butylbenzene       104	1,1,2-Trichloroethane	102
Ethyl Benzene       104         m,p-Xylene       106         o-Xylene       106         Styrene       110         Cumene       107         Propylbenzene       104         1,3,5-Trimethylbenzene       102         1,2,4-Trimethylbenzene       106         TPH ref. to Gasoline (MW=100)       100         Acetonitrile       95         Vinyl Acetate       117         Octane       100         Pentane       98         Butylbenzene       106         Decane       102         Dodecane       102         Dodecane       112         sec-Butylbenzene       104	Tetrachloroethene	102
Ethyl Benzene       104         m,p-Xylene       106         o-Xylene       106         Styrene       110         Cumene       107         Propylbenzene       104         1,3,5-Trimethylbenzene       102         1,2,4-Trimethylbenzene       106         TPH ref. to Gasoline (MW=100)       100         Acetonitrile       95         Vinyl Acetate       117         Octane       100         Pentane       98         Butylbenzene       106         Decane       102         Dodecane       102         Dodecane       112         sec-Butylbenzene       104	Chlorobenzene	101
o-Xylene       106         Styrene       110         Cumene       107         Propylbenzene       104         1,3,5-Trimethylbenzene       102         1,2,4-Trimethylbenzene       106         TPH ref. to Gasoline (MW=100)       100         Acetonitrile       95         Vinyl Acetate       117         Octane       100         Pentane       98         Butylbenzene       106         Decane       102         Dodecane       112         sec-Butylbenzene       104		104
Styrene       110         Cumene       107         Propylbenzene       104         1,3,5-Trimethylbenzene       102         1,2,4-Trimethylbenzene       106         TPH ref. to Gasoline (MW=100)       100         Acetonitrile       95         Vinyl Acetate       117         Octane       100         Pentane       98         Butylbenzene       106         Decane       102         Dodecane       112         sec-Butylbenzene       104	m,p-Xylene	106
Cumene       107         Propylbenzene       104         1,3,5-Trimethylbenzene       102         1,2,4-Trimethylbenzene       106         TPH ref. to Gasoline (MW=100)       100         Acetonitrile       95         Vinyl Acetate       117         Octane       100         Pentane       98         Butylbenzene       106         Decane       102         Dodecane       112         sec-Butylbenzene       104	o-Xylene	106
Propylbenzene       104         1,3,5-Trimethylbenzene       102         1,2,4-Trimethylbenzene       106         TPH ref. to Gasoline (MW=100)       100         Acetonitrile       95         Vinyl Acetate       117         Octane       100         Pentane       98         Butylbenzene       106         Decane       102         Dodecane       112         sec-Butylbenzene       104	Styrene	110
1,3,5-Trimethylbenzene       102         1,2,4-Trimethylbenzene       106         TPH ref. to Gasoline (MW=100)       100         Acetonitrile       95         Vinyl Acetate       117         Octane       100         Pentane       98         Butylbenzene       106         Decane       102         Dodecane       112         sec-Butylbenzene       104	Cumene	107
1,2,4-Trimethylbenzene       106         TPH ref. to Gasoline (MW=100)       100         Acetonitrile       95         Vinyl Acetate       117         Octane       100         Pentane       98         Butylbenzene       106         Decane       102         Dodecane       112         sec-Butylbenzene       104	Propylbenzene	104
1,2,4-Trimethylbenzene       106         TPH ref. to Gasoline (MW=100)       100         Acetonitrile       95         Vinyl Acetate       117         Octane       100         Pentane       98         Butylbenzene       106         Decane       102         Dodecane       112         sec-Butylbenzene       104	1,3,5-Trimethylbenzene	102
TPH ref. to Gasoline (MW=100)       100         Acetonitrile       95         Vinyl Acetate       117         Octane       100         Pentane       98         Butylbenzene       106         Decane       102         Dodecane       112         sec-Butylbenzene       104		106
Vinyl Acetate       117         Octane       100         Pentane       98         Butylbenzene       106         Decane       102         Dodecane       112         sec-Butylbenzene       104		100
Vinyl Acetate       117         Octane       100         Pentane       98         Butylbenzene       106         Decane       102         Dodecane       112         sec-Butylbenzene       104	Acetonitrile	95
Pentane       98         Butylbenzene       106         Decane       102         Dodecane       112         sec-Butylbenzene       104	Vinyl Acetate	117
Butylbenzene 106 Decane 102 Dodecane 112 sec-Butylbenzene 104		100
Decane 102  Dodecane 112 sec-Butylbenzene 104	Pentane	98
Dodecane 112 sec-Butylbenzene 104	Butylbenzene	106
sec-Butylbenzene 104	Decane	102
, , , , , , , , , , , , , , , , , , ,	Dodecane	112
·	sec-Butylbenzene	104
		106

Container Type: NA - Not Applicable

Surrogates %Recovery Limits



### Client Sample ID: CCV Lab ID#: 2101105-05A

### **EPA METHOD TO-15 GC/MS FULL SCAN**

File Name: p011202 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 1/12/21 11:14 AM

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	99	70-130	
1,2-Dichloroethane-d4	97	70-130	
4-Bromofluorobenzene	103	70-130	



### Client Sample ID: LCS Lab ID#: 2101105-06A

### **EPA METHOD TO-15 GC/MS FULL SCAN**

File Name: p011203 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 1/12/21 11:43 AM

0	0/ <b>D</b>	Method
Compound	%Recovery	Limits
Chloromethane	93	70-130
Vinyl Chloride	103	70-130
Freon 113	100	70-130
1,1-Dichloroethene	109	70-130
Acetone	95	70-130
Carbon Disulfide	98	70-130
Methylene Chloride	95	70-130
trans-1,2-Dichloroethene	105	70-130
Hexane	107	70-130
1,1-Dichloroethane	104	70-130
2-Butanone (Methyl Ethyl Ketone)	103	70-130
cis-1,2-Dichloroethene	106	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	102	70-130
Benzene	102	70-130
Trichloroethene	101	70-130
Toluene	98	70-130
1,1,2-Trichloroethane	101	70-130
Tetrachloroethene	102	70-130
Chlorobenzene	102	70-130
Ethyl Benzene	106	70-130
m,p-Xylene	109	70-130
o-Xylene	107	70-130
Styrene	110	70-130
Cumene	106	70-130
Propylbenzene	106	70-130
1,3,5-Trimethylbenzene	104	70-130
1,2,4-Trimethylbenzene	109	70-130
TPH ref. to Gasoline (MW=100)	Not Spiked	
Acetonitrile	Not Spiked	
Vinyl Acetate	119	60-140
Octane	Not Spiked	
Pentane	Not Spiked	
Butylbenzene	Not Spiked	
Decane	Not Spiked	
Dodecane	Not Spiked	
sec-Butylbenzene	Not Spiked	
p-Cymene	Not Spiked	

Container Type: NA - Not Applicable

Surrogates %Recovery Limits



### Client Sample ID: LCS Lab ID#: 2101105-06A

### EPA METHOD TO-15 GC/MS FULL SCAN

File Name: p011203 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 1/12/21 11:43 AM

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	104	70-130



### Client Sample ID: LCSD Lab ID#: 2101105-06AA

### **EPA METHOD TO-15 GC/MS FULL SCAN**

File Name: p011204 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 1/12/21 12:10 PM

Compound	%Recovery	Method Limits
	<u> </u>	
Chloromethane	92	70-130
Vinyl Chloride	98	70-130
Freon 113	98	70-130
1,1-Dichloroethene	110	70-130
Acetone	97	70-130
Carbon Disulfide	97	70-130
Methylene Chloride	95	70-130
trans-1,2-Dichloroethene	104	70-130
Hexane	107	70-130
1,1-Dichloroethane	104	70-130
2-Butanone (Methyl Ethyl Ketone)	104	70-130
cis-1,2-Dichloroethene	106	70-130
Chloroform	104	70-130
1,1,1-Trichloroethane	100	70-130
Benzene	102	70-130
Trichloroethene	101	70-130
Toluene	99	70-130
1,1,2-Trichloroethane	101	70-130
Tetrachloroethene	102	70-130
Chlorobenzene	102	70-130
Ethyl Benzene	105	70-130
m,p-Xylene	109	70-130
o-Xylene	107	70-130
Styrene	110	70-130
Cumene	106	70-130
Propylbenzene	105	70-130
1,3,5-Trimethylbenzene	103	70-130
1,2,4-Trimethylbenzene	109	70-130
TPH ref. to Gasoline (MW=100)	Not Spiked	
Acetonitrile	Not Spiked	
Vinyl Acetate	118	60-140
Octane	Not Spiked	
Pentane	Not Spiked	
Butylbenzene	Not Spiked	
Decane	Not Spiked	
Dodecane	Not Spiked	
sec-Butylbenzene	Not Spiked	
p-Cymene	Not Spiked	

Container Type: NA - Not Applicable

Surrogates Method Limits



### Client Sample ID: LCSD Lab ID#: 2101105-06AA

### EPA METHOD TO-15 GC/MS FULL SCAN

File Name: p011204 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 1/12/21 12:10 PM

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	104	70-130